AUTOMOTIVE INVENTORY LIST SAFETY DATA SHEET INDEX AS OF DECEMBER 2015

SIZE	<u>PRODUCT</u>
1 GAL	3M BOOTH COATING
1 QT	3M GENERAL PURPLE ADHESIVE CLEANER
1 QT	3M PERFECTIT POLISHING PAD GLAZE
400 ML	3M WELD THRU COATING
2 QT	409 CLEANER
8 OZ	A/C PRO PAG100 REFRIGERANT OIL W/ICE32 (ONLY MSDS SHEET FOUND)
1 QT	ACM FP301 ETCHING PRIMER (ONLY MSDS SHEET FOUND)
14 OZ	ADVANCE AUTO PARTS RED & TACKY #2 LITHIUM GREASE
15 OZ	ADVANCE AUTO PARTS HEAVY DUTY ENGINE BRITE DEGREASER
5 QT	ADVANCE AUTO PARTS POWER STEERING FLUID FOR 0EM APPLICATIONS (ONLY MSDS SHEET FOUND)
16 OZ	ALUMASEAL RADIATOR STOP LEAK
8 OZ	AMERICAN RACING WHEEL FLUID (NO SHEET FOUND)
32 OZ	ARCAL WELD-0 WELDING PREP FOR ALUMINUM
2 QT	ARMOUR ALL WASH & WAX
10 OZ	ATP FRICTION MODEFIER FOR TRANSMISSION FLUID
10 OZ	ATP M FIVE ALTERNATE TRANS FLUID CONVERTER
14 OZ	AUTO-ZONE BRAKE CLEANER (ONLY MSDS SHEET FOUND)
1 QT	B&M TRICK SHIFT TRANS FLUID (NO SHEET FOUND)
14.1 OZ	BERNZOMATIC MAPP GAS (ONLY MSDS SHEET FOUND)
5.5 OZ	BERNZOMATIC BUTANE
12 OZ	BIG A TEMP CONTROL VACUUM PUMP OIL
1 GAL	BLEACH (HYVEE)
14.5 OZ	BLK MAGIC TIRE CLEANER
13 OZ	BOWMAN BATTERY TERMINAL PROTECTOR (ONLY MSDS SHEET FOUND)
1 QT	BRAD PENN 30W BREAK IN OIL
10 OZ	BRITE TOUCH PAINT (SPRAY) (ONLY MSDS SHEET FOUND)
32 OZ	BRM HONING OIL
1 GAL	CARQUEST ANTI-FREEZE/COOLANT
14 OZ	CARQUEST BRAKE PARTS CLEANER
1 QT	CARQUEST DEX/MERC TRANS FLUID
5 QT	CARQUEST SAE 5W-20 MOTOR OIL
1 QT	CARQUEST SAE 5W-30 MOTOR OIL
5 QT	CARQUEST SAE 5W-30 MOTOR OIL
1 QT	CASTROL SYNTEC GEAR OIL SAE 75W-90
1 QT	CASTROL TRANSMAX ATF +4 FLUID (FOR CHRYSLERS)
1 QT	CASTROL TRANSMAX AT 14 FEOID (FOR CHRYSLERS) (NO SHEET FOUND)
1 QT	CASTROL TRANSMAX V FLUID (FOR FORDS) (NO SHEET FOUND)
1 GAL	COASTAL POWER CLEANER FOR GLASS
4 OZ	COMP CAMS CAM & LIFTER INSTALL LUBE (ONLY MSDS SHEET FOUND)
1 GAL	COSTAL AW32 HYDRAULIC & JACK OIL (ONLY MSDS SHEET FOUND)
7.5 OZ	CRC BELT CONDITIONER
4 OZ	CRC DISC BRAKE QUIET
11.5 OZ	CRC FREEZE-OFF PENETRANT
10 OZ	CRC LITHIUM GREASE (WHITE)
11 OZ	CRC QD ELECTRONIC CLEANER
10 OZ	CRC (STALUBE) EXTREME PRESSURE ENGINE ASSEMBLY LUBE
10 OZ	
18 OZ	CRC THREAD CUTTING OIL & THREAD CUTTING LUBRICANT
	CSC SUPER PENETRANT PENETRATING OIL & MOISTURE REMOVER (ONLY MSDS SHEET FOUND)
1 PT	DIMENSION DH654 HARDENER DIMENSION DH654 REDUICED (NO SHEET FOLIND)
1 QT	DIMENSION DR634 REDUCER (NO SHEET FOUND)

13.25 OZ	DR. TRANNY LUBE GUARD (KOOLER KLEEN) TRANSLINE CLEANER
12 OZ	DUPLICOLOR ENGINE PAINT (FORD BLUE)
1 GAL	DUPLICOLOR LACQUER THINNER
8 OZ	DUPLICOLOR PERFECT MATCH AUTO PAINT
12 OZ	DUPLICOLOR SELF ETCHING PRIMER
17 OZ	DUPLICOLOR UNDERCOAT PAINT (RUBBERIZED & SOUND ELIMINATOR)
12 OZ	DUPLICOLOR WHEEL COATING
1 QT	DUPONT STEEL REFINISHING STEP B (224S) CONVERSION COATING (NO SHEET FOUND)
8 OZ	DYKEM (RED) LAY-OUT FLUID (AEROSOL & BULK)
5 OZ	EAGLE ONE METAL POLISH (NANO-POLISH METAL POLISH)
32 OZ	EASTWOOD ANTIRUST PAINT (ONLY MSDS SHEET FOUND)
1 QT	ETP CUTTING FLUID (GOLD CUTTING FLUID)
16.9 OZ	FEBREEZE FABRIC FRESHNER
15 OZ	GUARDMAN FUEL INJECTOR CLEANER (NO SHEET FOUND)
8 OZ	HASTINGS (TECH AIR) AUTO TOOLS OIL
14 OZ	HOT SHOT FLYING INSECT & BUG KILLER
4 OZ	HOUSE OF COLOR PIN STRIPING PAINT (NO SHEET FOUND)
12.3 OZ	ID QUEST R-134A WITH UV LEAK DETECTOR (AIR COND.) (NO SHEET FOUND)
	IG-10 REFRIGERANT OIL 150
32 OZ	IMPORTANT 4 CYCLE MOTOR OIL SAE 30 DETERGENT BLEND (NO SHEET FOUND)
20 OZ	JOE GIBBS DRIVEN RACING OIL (ONLY MSDS SHEET FOUND)
1 QT	
1 QT	JOHNSEN'S HYDRAULIC JACK OIL
1 QT	JOHNSON WAX GLASS CLEANER (NO SHEET FOUND)
10 OZ	JOHNSON'S SILICONE LUBRICANT (NO SHEET FOUND)
32 OZ	K&W MOTOR FLUSH (DISCONTINUED ITEM; NO SHEET FOUND)
1 QT	KLEAN STRIP AIRCRAFT PAINT REMOVER
1 GAL	KLEAN STRIP MURIATIC ACID
32 OZ	KOP-COAT SPLASH ZONE COMPOUND (BLK) (NO SHEET FOUND)
32 OZ	KOP-COAT SPLASH ZONE COMPOUND (YELLOW) (NO SHEET FOUND)
12 OZ	LIFE LEATHER, VINYL, RUBBER CLEANER (NO SHEET FOUND)
16 OZ	LPS CUTTING FLUID
10 OZ	LUBRIPLATE #105 MOTOR ASSEMBLY GREASE (NO SHEET FOUND)
32 OZ	LUCAS SAE 80W-90 GEAR OIL
32 OZ	LUCAS UPPER CYLINDERS LUBE (ONLY MSDS SHEET FOUND)
32 OZ	MASTER PRO 80W-90 GEAR OIL
1 QT	MASTER PRO GEAR OIL SAE 75W-90 (NO SHEET FOUND)
1 LB	(MPURP) WHEEL BEARING GREASE
5 QT	MOBIL 1 10W-30 OIL (NO SHEET FOUND)
1 QT	MOBIL SPECIAL 5W-20 OIL (NO SHEET FOUND)
5 QT	MOPAR ATF +2 TYPE 7176 TRANS FLUID (UPGRADED TO ATF +4)
1 QT	NAPA 15422 2K FAST FILLING HARDENER (UPGRADED TO 80ZCH254 CROSSFIRE HARDENER)
.5 PT	NAPA 56B 45754 PAINT AUTO (CROSSFIRE PLATINUM)
1 GAL	NAPA 8009 REDUCER (QUIK-SEAL) HS ACTIVATING REDUCER
1 GAL	NAPA 8832 MEDIUM REDUCER (ACRYLIC ENAMEL REDUCER)
1 QT	NAPA 99L-187/WHITE ACRYLIC ENAMEL (NO SHEET FOUND)
16 OZ	NAPA AIR TOOL LUBRICANT #765-1400
1 GAL	NAPA AUTO PAINT (MORE INFO NEEDED)
1 QT	NAPA AUTOMOTIVE METAL CLEANER 6877 TRIPLE ETCH (UPGRADED TO 6383 - KLEANZ-EASY SOLVENT)
11.75 OZ	NAPA BATTERY TERMINAL PROTECTOR
11 OZ	NAPA CRC POWER LUBE
1 GAL	NAPA CROSSFIRE CR233 PAINT REDUCER (MEDIUM) (ONLY MSDS SHEET FOUND)
2.58 LBS	NAPA FIBERSTRAND BODY FILLER (NO SHEET FOUND)
1 QT	NAPA GEAR OIL SAE 80W-85W
15 OZ	NAPA PAINTERS GUIDE COAT
4.5 OZ	NAPA PERMATEX SURFACE PREP
1 QT	NAPA PREMIUM ATF FLUID
1 QT	NAPA QT 5102 PRIMER/SEALER (NO SHEET FOUND)

1 QT	NAPA TEC/SYSTEM ACRYLIC URETHANE TS-3 TEC SOLVENT #3
1 QT	NAPA VACUUM PUMP OIL
1 PT	NAPA WHITE PAINT (AUTO) 99L-1871 TECSS (NO SHEET FOUND)
20 OZ	NORTH AMERICAN GLASS CLEANER (NO SHEET FOUND)
8 OZ	NORTH AMERICAN GLASS POLISH (NO SHEET FOUND)
12 OZ	NOX-ICE (PENRAY) 5112 GAS LINE ANTI-FREEZE
1 GAL	O'REILLY ANTI-FREEZE/COOLANT
1 GAL	
1.5 OZ	PARKS LIQUID DEGLOSSER (DISCONTINUED ITEM; NO SHEET FOUND) PERMATEX 2 FORM A GASKET SEALANT 2A
8 OZ	
1.22 OZ	PERMATEX ANTI-SEIZE LUBRICANT ADVANCED FORMULA (ALUMINUM)
4 OZ	PERMATEX HIGH STRENGTH THREAD LOCKER RED PERMATEX HIGHTACK GASKET SEALANT
1.22 OZ	
3 OZ	PERMATEX MED STRENGTH THREADLOCKER BLUE PERMATEX REDRTV GASKET MAKER
5 OZ	PERMATEX THE RIGHT STUFF ONE MINUTE GASKET
5 GAL	PHOENIX TIRE & TUBE MOUNTING COMPOUND
11 OZ	POLAR PREMIUM STARTING FLUID
32 OZ	POSI-FLOW 2000 PARTING & POLISHING MACHINING (NO SHEET FOUND)
1 GAL	PPG ACRYLIC CLEAN WAX & GREASE REMOVER (NO SHEET FOUND; NEED PRODUCT CODE)
32 OZ	PRESTA CHROMA SWIRL REMOVER BUFFING SOLUTION
1 GAL	PRESTONE ANTI-FREEZE/COOLANT
11 OZ	PRESTONE RADIATOR FLUSH & CLEANER COOLING SYSTEM 10 MINUTE FLUSH
11 OZ	PRESTONE COOLING SYSTEM SEALER & STOP LEAK
1 QT	PURE GUARD NON DETERGENT ND-30 OIL
1 GAL	PURPLE POWER (CLEAN LITE) CLEANER DEGREASER
32 OZ	PX3 75W-90 GEAR OIL (DISCONTINUED ITEM; NO SHEET FOUND)
1 GAL	RAMPAC HYDRAULIC OIL FOR SMALL JACKS (DISCONTINUED ITEM; NO SHEET FOUND)
1 LB	RAYBESTOS MULTI PURPOSE PRECISION LUBRICANT
4 OZ	RECTORSEAL TPLUS2 THREAD SEALANT
8 OZ	ROYAL PURPLE MAX TUFF ASSEMBLY LUBE
1 QT	ROYAL PURPLE MAX GEAR OIL SAE 75W-90
16 OZ	ISOPROPYL RUBBING ALCOHOL (70%)
12 OZ	RUSTOLEUM (HAMMERED) PAINT (NEED SPECIFIC COLOR; BLACK PRINTED)
1 GAL	SAFE SOLUTIONS EVAPO-RUST
1 QT	SHELL ROTELLA T6 SYNTHETIC OIL 5W-40
1LB	SHEP'S STICK BELT PROCESSING (NO SHEET FOUND)
32 OZ	SLIME SDS TIRE SEALANT
15 OZ	SOLDER SEAL 10 MINUTE ACTING SYSTEM FLUSH (NO SHEET FOUND)
15 OZ	SPARTAN STAINLESS STEEL POLISH/CLEANER
1 GAL	SPLASH ORIGINAL BLUE WINSHIELD WASHER
14 OZ	(STA-LUBE) HI TEMPERATURE DISC BREAKE BEARING GREASE
32 OZ	STABIL (GOLD EAGLE) FUEL STABLIZER
1 QT	(STA-LUBE) SAE 80W-90 SLIP GEAR OIL
15 OZ	STP OIL TREATMENT
16 OZ	TAP MAGIC CUTTING FLUID FOR ALUMINUM
1 GAL	TEXACO HAVOLINE ANTI-FREEZE/COOLANT
16 OZ/1 LB	TRANS JEL RED TRANSMISSION ASSEMBLY LUBE
14 OZ	TRU-FLATE RUBBER CLEANER
1 QT	VALSPAR CATALYST URETHANE ENAMEL SYSTEM KU150 (UPC CODE NEEDED; NO SHEET PRINTED)
1 QT	VALSPAR HOUSE OF COLOR BLACK PAINT (UPC CODE NEEDED; NO SHEET PRINTED)
1 GAL	VALSPAR HOUSE OF COLOR BLACK PRIMER (UPC CODE NEEDED; NO SHEET PRINTED)
1 GAL	VALSPAR HOUSE OF COLOR RU-311 MED REDUCER (UPC CODE NEEDED; NO SHEET PRINTED)
1 QT	VALVOLINE (IN CAN) TYPE F AUTOMATIC TRANSMISSION FLUID
13 OZ	VALVOLINE CARB & CHOKE CLEANER (THROTTLE BODY SPRAY HEAVY DUTY)
	VALVOLINE EXTENDED LIFE ANTI/FREEZE/COOLANT DEXPOOL GM APPROVED 5 YR-150,000 MILE PROTECTION
1 GAL	(ONLY MSDS SHEET FOUND)
12 OZ	VALVOLINE FULE INJECTOR CLEANER
5 QT	VALVOLINE FULL SYNTHETIC SAE 5W-30 MOTOR OIL

5 QT	VALVOLINE MAX LIFE SAE 10W-30 MOTOR OIL (ONLY MSDS SHEET FOUND)
1 QT	VALVOLINE MERCON V TRANS FLUID
14.1 OZ	VALVOLINE MULTI PURPOSE GREASE
5 QT	VALVOLINE PREMIUM SAE 10W-30 MOTOR OIL (ONLY MSDS SHEET FOUND)
5 QT	VALVOLINE PREMIUM SAE 5-30 MOTOR OIL
1 QT	VALVOLINE RACING VR1 SAE 20W-50 MOTOR OIL (NO SHEET FOUND; PRODUCT SHEET ONLY)
1 QT	VALVOLINE SAE-80-90 GEAR OIL (ONLY MSDS SHEET FOUND)
1 QT	VALVOLINE SYNTHETIC 75W-90 GEAR OIL
11 OZ	VAT CALIPER PAINT (MORE INFO NEEDED)
2 LBS	VESTA-ZYME DRAIN CLEANER (NO SHEET FOUND)
18 OZ	WD-40 (CANS OF) WD-40 COMPANY, SAN DIEGO, CA 92110 (ONLY MSDS SHEET FOUND)
1 QT	WEAREVER GOLD PRO STRENGTH BRAKE FLUID
14.1 OZ	WORTHINGTON PROPANE
32 OZ	X-TRA SEAL TIRE BEAD SEALANT
32.02	A-INA SEAL TINE BEAD SEALANT
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Inhalation:

Remove person to fresh air. If you feel unwell, get medical attention.

Skin Contact:

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

Eve Contact:

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

If Swallowed:

Rinse mouth. If you feel unwell, get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1. Information on toxicological effects.

4.3. Indication of any immediate medical attention and special treatment required

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode.

Hazardous Decomposition or By-Products

Substance				
Hydrocarbons				
Carbon monoxi	de			
Carbon dioxide				

Condition

During Combustion During Combustion During Combustion

5.3. Special protective actions for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up

Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent

material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with water. Seal the container. Dispose of collected material as soon as possible.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid skin contact with hot material. For industrial or professional use only. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (gloves, respirators, etc.) as required.

7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Keep from freezing. Store away from acids. Store away from strong bases. Store away from oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
5-chloro-2methyl-4isothiazoline-	26172-55-4	CMRG	TWA:0.076 mg/m3;STEL:0.23	Sensitizer
3-one			mg/m3	
2-methyl-4-isothiazoline-3-one	2682-20-4	CMRG	TWA:1.5 mg/m3;STEL:4.5 mg/m3	Sensitizer
Glycerin	56-81-5	OSHA	TWA(as total dust):15 mg/m3;TWA(respirable fraction):5 mg/m3	
Ethyl Alcohol	64-17-5	ACGIH	STEL:1000 ppm	A3: Confirmed animal carcin.
Ethyl Alcohol	64-17-5	OSHA.	TWA:1900 mg/m3(1000 ppm)	
Methyl Alcohol	67-56-1	ACGIH	TWA:200 ppm;STEL:250 ppm	Skin Notation
Methyl Alcohol	67-56-1	OSHA	TWA:260 mg/m3(200 ppm)	
Vinyl Acetate-Vinyl Alcohol	Trade	CMRG	TWA(as respirable dust):5	
Polymer	Secret		mg/m3;TWA(as total dust):10 mg/m3	

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines

OSHA: United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average STEL: Short Term Exposure Limit

CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment. Provide appropriate local exhaust ventilation on open containers.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Safety Glasses with side shields

Indirect Vented Goggles

Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing.

Gloves made from the following material(s) are recommended: Butyl Rubber

Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

Thermal hazards

Wear heat insulating gloves when handling hot material to prevent thermal burns.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

General Physical Form: Liq

Odor, Color, Grade: Slight solvent odor clear liquid

Odor threshold No Data Available

pH 6

Melting point

Not Applicable

Boiling Point

Flash Point

> 200

Evaporation rateNo Data AvailableFlammability (solid, gas)Not ApplicableFlammable Limits(LEL)No Data AvailableFlammable Limits(UEL)No Data Available

Vapor Pressure 18 mmHg

Vapor Density 1.2 [Ref Std: AIR=1]

Density 1.02 g/ml

Specific Gravity 1.02 [Ref Std: WATER=1]

Solubility in Water Complete
Solubility- non-water No Data Available
Partition coefficient: n-octanol/ water No Data Available
Autoignition temperature No Data Available

Autoignition temperature

Decomposition temperature

Viscosity

No Data Available
No Data Available
50 - 60 centipoise

Hazardous Air Pollutants0.01 lb HAPS/lb solids [Test Method: Calculated]Volatile Organic Compounds0.5 % weight [Test Method: calculated per CARB title 2]Volatile Organic Compounds5 g/l [Test Method: calculated SCAQMD rule 443.1]

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Percent volatile

VOC Less H2O & Exempt Solvents

86.6 % weight

41 g/l [Test Method: calculated SCAQMD rule 443.1]

SECTION 10: Stability and reactivity

10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong bases
Strong oxidizing agents
Strong acids

10.6. Hazardous decomposition products

Substance

None known.

Condition

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation:

Vapors from heated material may cause irritation of the respiratory system. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Sprayed material may cause irritation of the respiratory system. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Skin Contact:

Contact with the skin during product use is not expected to result in significant irritation. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Eve Contact:

Vapors from heated material may cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Sprayed material may cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

Additional Health Effects:

Reproductive/Developmental Toxicity:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

Carcinogenicity:

Ingredient	CAS No.	G1 5	Regulation
Generic: ALCOHOLIC BEVERAGES	64-17-5	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer
Generic: ALCOHOLIC BEVERAGES		Known human carcinogen	National Toxicology Program Carcinogens

Additional Information:

This product contains ethanol. Alcoholic beverages and ethanol in alcoholic beverages have been classified by the International Agency for Research on Cancer as carcinogenic to humans. There are also data associating human consumption of alcoholic beverages with developmental toxicity and liver toxicity. Exposure to ethanol during the foreseeable use of this product is not expected to cause cancer, developmental toxicity, or liver toxicity.

Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

Name	Route	Species	Value
Overall product	Ingestion		No data available; calculated ATE > 5,000 mg/kg
Glycerin	Dermal	Rabbit	LD50 estimated to be > 5,000 mg/kg
Glycerin	Ingestion	Rat	LD50 > 5,000 mg/kg
Ethyl Alcohol	Dermal	Rabbit	LD50 > 15,800 mg/kg
Ethyl Alcohol	Inhalation- Vapor (4 hours)	Rat	LC50 124.7 mg/l
Ethyl Alcohol	Ingestion	Rat	LD50 17,800 mg/kg
Methyl Alcohol	Dermal		LD50 estimated to be 1,000 - 2,000 mg/kg
Methyl Alcohol	Inhalation- Vapor		LC50 estimated to be 10 - 20 mg/l
Methyl Alcohol	Ingestion	1	LD50 estimated to be 50 - 300 mg/kg
5-chloro-2methyl-4isothiazoline-3-one	Dermal	Rabbit	LD50 87 mg/kg
5-chloro-2methyl-4isothiazoline-3-one	Inhalation- Dust/Mist (4 hours)	Rat	LC50 0.33 mg/l
5-chloro-2methyl-4isothiazoline-3-one	Ingestion	Rat	LD50 40 mg/kg
2-methyl-4-isothiazoline-3-one	Dermal	Rabbit	LD50 87 mg/kg
2-methyl-4-isothiazoline-3-one	Inhalation- Dust/Mist (4 hours)	Rat	LC50 0.33 mg/l
2-methyl-4-isothiazoline-3-one	Ingestion	Rat	LD50 40 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

ı	Name	Species	Value

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Glycerin	Rabbit	No significant irritation
Ethyl Alcohol	Rabbit	No significant irritation
Methyl Alcohol	Rabbit	Mild irritant
5-chloro-2methyl-4isothiazoline-3-one	Rabbit	Corrosive
2-methyl-4-isothiazoline-3-one	Rabbit	Согтоѕіче

Serious Eye Damage/Irritation

Name	Species	Value
Glycerin	Rabbit	No significant irritation
Ethyl Alcohol	Rabbit	Moderate irritant
Methyl Alcohol	Rabbit	Moderate irritant
5-chloro-2methyl-4isothiazoline-3-one	Rabbit	Corrosive
2-methyl-4-isothiazoline-3-one	Rabbit	Corrosive

Skin Sensitization

Name	Species	Value
Glycerin	Guinea	Not sensitizing
· ·	pig	
Ethyl Alcohol	Human	Some positive data exist, but the data are not
		sufficient for classification
Methyl Alcohol	Guinea	Not sensitizing
	pig	
5-chloro-2methyl-4isothiazoline-3-one	Human	Sensitizing
	and	
	animal	
2-methyl-4-isothiazoline-3-one	Human	Sensitizing
	and	_
	animal	

Photosensitization

Name	Species	Value
5-chloro-2methyl-4isothiazoline-3-one	Human	Not sensitizing
	and	
	animal	
2-methyl-4-isothiazoline-3-one	Human	Not sensitizing
	and	_
	animal	

Respiratory Sensitization

For the component/components, either no data are currently available or the data are not sufficient for classification.

Germ Cell Mutagenicity

Name	Route	Value
Ethyl Alcohol	In Vitro	Some positive data exist, but the data are not sufficient for classification
Ethyl Alcohol	In vivo	Some positive data exist, but the data are not sufficient for classification
Methyl Alcohol	In Vitro	Some positive data exist, but the data are not sufficient for classification
Methyl Alcohol	In vivo	Some positive data exist, but the data are not sufficient for classification
5-chloro-2methyl-4isothiazoline-3-one	In vivo	Not mutagenic
5-chloro-2methyl-4isothiazoline-3-one	In Vitro	Some positive data exist, but the data are not sufficient for classification
2-methyl-4-isothiazoline-3-one	In vivo	Not mutagenic
2-methyl-4-isothiazoline-3-one	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value

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Glycerin	Ingestion	Mouse	Some positive data exist, but the data are not sufficient for classification
Ethyl Alcohol	Ingestion	Multiple animal species	Some positive data exist, but the data are not sufficient for classification
Methyl Alcohol	Inhalation	Multiple animal species	Not carcinogenic
5-chloro-2methyl-4isothiazoline-3-one	Dermal	Mouse	Not carcinogenic
5-chloro-2methyl-4isothiazoline-3-one	Ingestion	Rat	Not carcinogenic
2-methyl-4-isothiazoline-3-one	Dermal	Mouse	Not carcinogenic
2-methyl-4-isothiazoline-3-one	Ingestion	Rat	Not carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
Glycerin	Ingestion	Not toxic to female reproduction	Rat	NOAEL 2,000 mg/kg/day	2 generation
Glycerin	Ingestion	Not toxic to male reproduction	Rat	NOAEL 2,000 mg/kg/day	2 generation
Glycerin	Ingestion	Not toxic to development	Rat	NOAEL 2,000 mg/kg/day	2 generation
Ethyl Alcohol	Inhalation	Not toxic to development	Rat	NOAEL 38 mg/l	during gestation
Ethyl Alcohol	Ingestion	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 5,200 mg/kg/day	premating & during gestation
Methyl Alcohol	Ingestion	Some positive male reproductive data exist, but the data are not sufficient for classification	Rat	NOAEL 1,600 mg/kg/day	21 days
Methyl Alcohol	Ingestion	Toxic to development	Mouse	LOAEL 4,000 mg/kg/day	during organogenesi s
Methyl Alcohol	Inhalation	Toxic to development	Mouse	NOAEL 1.3 mg/l	during organogenesi s
5-chloro-2methyl-4isothiazoline-3-one	Ingestion	Not toxic to female reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
5-chloro-2methyl-4isothiazoline-3-one	Ingestion	Not toxic to male reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
5-chloro-2methyl-4isothiazoline-3-one	Ingestion	Not toxic to development	Rat	NOAEL 15 mg/kg/day	during organogenesi s
2-methyl-4-isothiazoline-3-one	Ingestion	Not toxic to female reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
2-methyl-4-isothiazoline-3-one	Ingestion	Not toxic to male reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
2-methyl-4-isothiazoline-3-one	Ingestion	Not toxic to development	Rat	NOAEL 15 mg/kg/day	during organogenesi s

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Ethyl Alcohol	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	LOAEL 2,6 mg/l	30 minutes
Ethyl Alcohol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	LOAEL 9.4 mg/l	not available

Ethyl Alcohol	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Multiple animal species	NOAEL not available	
Ethyl Alcohol	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Dog	NOAEL 3,000 mg/kg	
Methyl Alcohol	Inhalation	blindness	Causes damage to organs	Human	NOAEL Not available	occupational exposure
Methyl Alcohol	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	not available
Methyl Alcohol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL Not available	6 hours
Methyl Alcohol	Ingestion	blindness	Causes damage to organs	Human	NOAEL Not available	poisoning and/or abuse
Methyl Alcohol	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	poisoning and/or abuse
5-chloro-2methyl- 4isothiazoline-3-one	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
2-methyl-4-isothiazoline-3- one	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Glycerin	Inhalation	respiratory system	stem Some positive data exist, but the data are not sufficient for classification		NOAEL 3.91 mg/l	14 days
Glycerin	Inhalation heart liver kidney All data are negative and/or bladder	All data are negative	Rat	NOAEL 3.91 mg/l	14 days	
Glycerin	Ingestion	endocrine system hematopoietic system liver kidney and/or bladder	hematopoietic system liver kidney and/or		NOAEL 10,000 mg/kg/day	2 years
Ethyl Alcohol	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Rabbit	LOAEL 124 mg/l	365 days
Ethyl Alcohol	Inhalation	hematopoietic system immune system	stem immune data are not sufficient for		NOAEL 25 mg/l	14 days
Ethyl Alcohol	Ingestion	liver			LOAEL 8,000 mg/kg/day	4 months
Ethyl Alcohol	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Dog	NOAEL 3,000 mg/kg/day	7 days
Methyl Alcohol	Inhalation	liver	All data are negative	Rat	NOAEL 6,55 mg/l	4 weeks
Methyl Alcohol	Inhalation	respiratory system	All data are negative	Rat	NOAEL 13.1 mg/l	6 weeks
Methyl Alcohol	Ingestion	liver nervous system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 2,500 mg/kg/day	90 days

Aspiration Hazard

For the component/components, either no data are currently available or the data are not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information

Ecotoxicological information

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

Chemical fate information

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

SECTION 13: Disposal considerations

13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. As a disposal alternative, utilize an acceptable permitted waste disposal facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

SECTION 14: Transport Information

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

SECTION 15: Regulatory information

15.1. US Federal Regulations

Contact 3M for more information.

311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - Yes

15.2. State Regulations

Contact 3M for more information.

15.3. Chemical Inventories

The components of this product are in compliance with the chemical notification requirements of TSCA.

Contact 3M for more information.

15.4. International Regulations

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: Other information

NFPA Hazard Classification

Health: 1 Flammability: 1 Instability: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

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 18-5376-1
 Version Number:
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 Issue Date:
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 07/02/12

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SECTION 1: Identification

1.1. Product identifier

3M™ General Purpose Adhesive Cleaner PN 08984, 08986

Product Identification Numbers

60-4550-3067-0, 60-4550-4586-8, 62-4787-6509-2, 62-4787-8509-0, 62-4787-9509-9

1.2. Recommended use and restrictions on use

Recommended use

Automotive, Adhesive Remover

1.3. Supplier's details

MANUFACTURER:

3M

DIVISION:

Automotive Aftermarket

ADDRESS:

3M Center, St. Paul, MN 55144-1000, USA

Telephone:

1-888-3M HELPS (1-888-364-3577)

1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

SECTION 2: Hazard identification

The label elements below were prepared in accordance with OSHA Hazard Communication Standard, 29 CFR 1910.1200. This information may be different from the actual product label information for labels regulated by other agencies.

2.1. Hazard classification

Flammable Liquid: Category 2.

Skin Corrosion/Irritation: Category 2.

Aspiration Hazard: Category 1.

Reproductive Toxicity: Category 1B.

Carcinogenicity: Category 2.

Specific Target Organ Toxicity (single exposure): Category 1.

Specific Target Organ Toxicity (central nervous system): Category 3.

Specific Target Organ Toxicity (repeated exposure): Category 1.

2.2. Label elements

Signal word

Danger

Symbols

Flame | Exclamation mark | Health Hazard |

Pictograms



Hazard Statements

Highly flammable liquid and vapor.

Causes skin irritation.

May be fatal if swallowed and enters airways.

May cause drowsiness or dizziness.

May damage fertility or the unborn child.

Suspected of causing cancer.

Causes damage to organs: sensory organs |

Causes damage to organs through prolonged or repeated exposure: nervous system |

May cause damage to organs through prolonged or repeated exposure: sensory organs |

Precautionary Statements

General:

Keep out of reach of children.

Prevention:

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Ground/bond container and receiving equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Keep container tightly closed.

Use explosion-proof electrical/ventilating/lighting equipment.

Do not breathe dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

Wear protective gloves and eye/face protection.

Do not eat, drink or smoke when using this product.

Wash thoroughly after handling.

Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

Do NOT induce vomiting.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

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Call a POISON CENTER or doctor/physician if you feel unwell.

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

Storage:

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

Disposal:

Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

2.3. Hazards not otherwise classified

None.

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
Xylene	1330-20-7	30 - 60 Trade Secret *
Hydrotreated Light Naphtha (Petroleum)	64742-49-0	30 - 60 Trade Secret *
Ethylbenzene	100-41-4	7 - 13 Trade Secret *
Toluene	108-88-3	0.5 - 1.5 Trade Secret *
Benzene	71-43-2	< 0.1 Trade Secret *

^{*}The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Remove person to fresh air. If you feel unwell, get medical attention.

Skin Contact:

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

Eve Contact:

Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.

If Swallowed:

Do not induce vomiting. Get immediate medical attention.

4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1. Information on toxicological effects.

4.3. Indication of any immediate medical attention and special treatment required

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

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In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode.

Hazardous Decomposition or By-Products

Substance Carbon monoxide Carbon dioxide Condition
During Combustion
During Combustion

5.3. Special protective actions for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up

Contain spill. Cover spill area with a fire-extinguishing foam. An appropriate aqueous film forming foam (AFFF) is recommended. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Seal the container. Dispose of collected material as soon as possible.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not use in a confined area with minimal air exchange. Keep out of reach of children. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Wear low static or properly grounded shoes. Use personal protective equipment (gloves, respirators, etc.) as required. To minimize the risk of ignition, determine applicable electrical classifications for the process using this product and select specific local exhaust ventilation equipment to avoid flammable vapor accumulation. Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer.

7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Protect from sunlight. Store away from heat. Store away from acids. Store away from oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
Ethylbenzene	100-41-4	ACGIH	TWA:20 ppm	A3: Confirmed animal carcin.
Ethylbenzene	100-41-4	CMRG	TWA:25 ppm;STEL:75 ppm	caroni,
Ethylbenzene	100-41-4	OSHA	TWA:435 mg/m3(100 ppm)	# 1m/
Toluene	108-88-3	ACGIH	TWA:20 ppm	A4: Not class. as human carcin
Toluene	108-88-3	CMRG	STEL:75 ppm	Skin Notation
Toluene	108-88-3	OSHA	TWA:200 ppm;CEIL:300 ppm	
Xylene	1330-20-7	ACGIH	TWA:100 ppm;STEL:150 ppm	A4: Not class. as human carcin
Xylene	1330-20-7	CMRG	TWA:50 ppm;STEL:75 ppm	
Xylene	1330-20-7	OSHA	TWA:435 mg/m3(100 ppm)	
Hydrotreated Light Naphtha (Petroleum)	64742-49-0	CMRG	TWA:50 ppm	
Benzene	71-43-2	ACGIH	TWA:0.5 ppm;STEL:2.5 ppm	A1: Confirmed human carcin., Skin Notation
Benzene	71-43-2	OSHA	TWA:1 ppm;TWA:10 ppm;STEL:5 ppm;CEIL:25 ppm	29 CFR 1910.1028

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines

OSHA: United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average STEL: Short Term Exposure Limit

CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment. Use explosion-proof ventilation equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:
Safety Glasses with side shields

Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.

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Gloves made from the following material(s) are recommended: Fluoroelastomer Polymer laminate

Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors

For questions about suitability for a specific application, consult with your respirator manufacturer.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

General Physical Form: Liquid

Odor, Color, Grade: Colorless, sharp odor of aromatic solvent

Odor thresholdNo Data AvailablepHNot ApplicableMelting pointNot Applicable

Boiling Point 245 °F

Flash Point 52 °F [Test Method: Closed Cup]
Evaporation rate 52 °F [Test Method: Closed Cup]
Approximately 7.1 [Ref Std: ETHER=1]

Flammability (solid, gas)

Flammable Limits(LEL)

Flammable Limits(UEL)

Not Applicable
0.90 % volume
6.00 % volume

Vapor Pressure 15 mmHg [Details: CONDITIONS: @ 100F]

Vapor Density >=3.00 [Ref Std: AIR=1]

Density 0.808 g/ml

Specific Gravity 0.808 [Ref Std: WATER=1]

Solubility in Water

Solubility - non-water

Partition coefficient: n-octanol/ water

Autoignition temperature

Decomposition temperature

Negligible

No Data Available

No Data Available

No Data Available

Viscosity 3 centipoise [Test Method: Brookfield]
Hazardous Air Pollutants 3.44 lb HAPS/gal [Test Method: Calculated]

Volatile Organic Compounds 808 g/l [Test Method: calculated SCAQMD rule 443.1]
Volatile Organic Compounds 100.0 % weight [Test Method: calculated per CARB title 2]

Percent volatile 100 % weight

VOC Less H2O & Exempt Solvents 808 g/l [Test Method: calculated SCAQMD rule 443.1]

SECTION 10: Stability and reactivity

10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

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Heat

Sparks and/or flames

10.5. Incompatible materials

Strong oxidizing agents

10.6. Hazardous decomposition products

Substance

None known.

Condition

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation:

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

May cause additional health effects (see below).

Skin Contact:

Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, dryness, cracking, blistering, and pain.

Eve Contact:

Contact with the eyes during product use is not expected to result in significant irritation.

Ingestion:

Chemical (Aspiration) Pneumonitis: Signs/symptoms may include coughing, gasping, choking, burning of the mouth, difficulty breathing, bluish colored skin (cyanosis), and may be fatal.

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

May cause additional health effects (see below).

Additional Health Effects:

Single exposure may cause target organ effects:

Auditory Effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears.

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

Prolonged or repeated exposure may cause target organ effects:

Auditory Effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears.

Neurological Effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness, tremors, and/or changes in blood pressure and heart rate.

Reproductive/Developmental Toxicity:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

Ingredient	CAS No.	Class Description	Regulation
Benzene	71-43-2	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer
Benzene	71-43-2	Known human carcinogen	National Toxicology Program Carcinogens
Benzene	71-43-2	Cancer hazard	OSHA Carcinogens
Ethylbenzene	100-41-4	Grp. 2B: Possible human carc,	International Agency for Research on Cancer

Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

Name	Route	Species	Value
Overall product	Dermal	Бресте	No data available; calculated ATE > 5,000 mg/kg
Overall product	Inhalation- Vapor(4 hr)		No data available; calculated ATE > 50 mg/l
Overall product	Ingestion		No data available; calculated ATE > 5,000 mg/kg
Hydrotreated Light Naphtha (Petroleum)	Dermal	Rabbit	LD50 > 3,160 mg/kg
Hydrotreated Light Naphtha (Petroleum)	Inhalation-	Rat	LC50 > 14.7 mg/l
	Vapor (4 hours)		
Hydrotreated Light Naphtha (Petroleum)	Ingestion	Rat	LD50 > 5,000 mg/kg
Xylene	Dermal	Rabbit	LD50 > 4,200 mg/kg
Xylene	Inhalation- Vapor (4	Rat	LC50 29 mg/l
	hours)		
Xylene	Ingestion	Rat	LD50 3,523 mg/kg
Ethylbenzene	Dermal	Rabbit	LD50 15,433 mg/kg
Ethylbenzene	Inhalation-	Rat	LC50 17.4 mg/l
•	Vapor (4		
	hours)		
Ethylbenzene	Ingestion	Rat	LD50 4,769 mg/kg
Toluene	Dermal	Rat	LD50 12,000 mg/kg
Toluene	Inhalation-	Rat	LC50 30 mg/l
	Vapor (4		
	hours)		
Тоіцепе	Ingestion	Rat	LD50 5,550 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
	11	
Hydrotreated Light Naphtha (Petroleum)	Rabbit	Irritant
Xylene	Rabbit	Mild irritant
Ethylbenzene	Rabbit	Mild irritant
Toluene	Rabbit	Irritant

Serious Eve Damage/Irritation

Name	Species	Value
Hydrotreated Light Naphtha (Petroleum)	Rabbit	Mild irritant

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Xylene	Rabbit	Mild irritant
Ethylbenzene	Rabbit	Moderate irritant
Toluene	Rabbit	Moderate irritant

Skin Sensitization

Name	Species	Value
Hydrotreated Light Naphtha (Petroleum)	Guinea	Not sensitizing
	pig	
Ethylbenzene	Human	Not sensitizing
Toluene	Guinea	Not sensitizing
	pig	

Respiratory Sensitization

For the component/components, either no data are currently available or the data are not sufficient for classification.

Germ Cell Mutagenicity

Name	Route	Value
Hydrotreated Light Naphtha (Petroleum)	In Vitro	Not mutagenic
Xylene	In Vitro	Not mutagenic
Xylene	In vivo	Not mutagenic
Ethylbenzene	In vivo	Not mutagenic
Ethylbenzene	In Vitro	Some positive data exist, but the data are not sufficient for classification
Toluene	In Vitro	Not mutagenic
Toluene	In vivo	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
Hydrotreated Light Naphtha (Petroleum)	Inhalation	Mouse	Some positive data exist, but the data are not sufficient for classification
Xylene	Dermal	Rat	Not carcinogenic
Xylene	Ingestion	Multiple animal species	Not carcinogenic
Xylene	Inhalation	Human	Some positive data exist, but the data are not sufficient for classification
Ethylbenzene	Inhalation	Multiple animal species	Carcinogenic
Toluene	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
Toluene	Ingestion	Rat	Some positive data exist, but the data are not sufficient for classification
Toluene	Inhalation	Mouse	Some positive data exist, but the data are not sufficient for classification

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
Xylene	Ingestion	Not toxic to female reproduction	Mouse	NOAEL 1,000 mg/kg/day	103 weeks
Xylene	Ingestion	Not toxic to male reproduction	Mouse	NOAEL 1,000 mg/kg/day	103 weeks
Xylene	Inhalation	Some positive female reproductive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
Xylene	Ingestion	Some positive developmental data exist, but the data are not sufficient for classification	Mouse	NOAEL Not available	during organogenesi s

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Xylene	Inhalation	Some positive developmental data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL Not available	during gestation
Ethylbenzene	Inhalation	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 4.3 mg/l	premating & during gestation
Toluene	Inhalation	Some positive female reproductive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
Toluene	Inhalation	Some positive male reproductive data exist, but the data are not sufficient for classification	Rat	NOAEL 2.3 mg/l	1 generation
Toluene	Ingestion	Toxic to development	Rat	LOAEL 520 mg/kg/day	during gestation
Toluene	Inhalation	Toxic to development	Human	NOAEL Not available	poisoning and/or abuse

Lactation

	Name	Route	Species	Value
Г	Xylene	Ingestion	Mouse	Does not cause effects on or via lactation

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Hydrotreated Light Naphtha (Petroleum)	Inhalation	central nervous system depression	May cause drowsiness or dizziness		NOAEL Not available	
Hydrotreated Light Naphtha (Petroleum)	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
Xylene	Inhalation	auditory system	Causes damage to organs	Rat	LOAEL 6.3 mg/l	8 hours
Xylene	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
Xylene	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	-
Xylene	Inhalation	eyes	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 3.5 mg/l	not available
Xylene	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL Not available	
Xylene	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Multiple animal species	NOAEL Not available	
Xylene	Ingestion	eyes	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 250 mg/kg	not applicable
Ethylbenzene	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
Ethylbenzene	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human and animal	NOAEL Not available	
Toluene	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
Toluene	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
Toluene	Inhalation	immune system	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL 0.004 mg/l	3 hours
Toluene	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	poisoning and/or abuse

Specific	Torget	Organ	Tavioity -	ranaatad	exposure	
Specific	Target	Organ	TOXICIEY -	repeated	exposure	

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Xylen e	Inhalation	nervous system	Causes damage to organs through prolonged or repeated exposure	Rat	LOAEL 0.4 mg/l	4 weeks
Xylene	Inhalation	auditory system	May cause damage to organs though prolonged or repeated exposure	Rat	LOAEL 7.8 mg/l	5 days
Xylene	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL Not available	
Xylene	rlene Inhalation heart endocrine All data are negative M system an		Multiple animal species	NOAEL 3.5 mg/l	13 weeks	
Xylene	Ingestion	auditory system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 900 mg/kg/day	2 weeks
Xylene	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1,500 mg/kg/day	90 days
Xylene	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL Not available	
Xylene	Ingestion	heart skin endocrine system bone, teeth, nails, and/or hair hematopoietic system immune system nervous system respiratory system	All data are negative	Mouse	NOAEL 1,000 mg/kg/day	103 weeks
Ethylbenzene	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1.1 mg/l	2 years
Ethylbenzene	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL 1.1 mg/l	103 weeks
Ethylbenzene	Inhalation	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 3.4 mg/l	28 days
Ethylbenzene	Inhalation	auditory system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 2.4 mg/l	5 days
Ethylbenzene	Inhalation	endocrine system	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL 3.3 mg/l	103 weeks
Ethylbenzene	Inhalation	bone, teeth, nails, and/or hair muscles	All data are negative	Multiple animal species	NOAEL 4.2 mg/l	90 days
Ethylbenzene	Inhalation	heart immune system respiratory system	All data are negative	Multiple animal species	NOAEL 3.3 mg/l	2 years
Ethylbenzene	Ingestion	liver kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 680 mg/kg/day	6 months
l'oluene	Inhalation	auditory system nervous system eyes olfactory system	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	poisoning and/or abuse
Toluene	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for	Rat	LOAEL 2.3 mg/l	15 months

			classification			
Toluene	Inhalation	heart liver kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 11.3 mg/l	15 weeks
Toluene	Inhalation	endocrine system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1.1 mg/l	4 weeks
Toluene	Inhalation	immune system	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL Not available	20 days
Toluene	Inhalation	bone, teeth, nails, and/or hair	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL 1.1 mg/l	8 weeks
Toluene	Inhalation	hematopoietic system vascular system	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
Toluene	Ingestion	nervous system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 625 mg/kg/day	13 weeks
Toluene	Ingestion	heart	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 2,500 mg/kg/day	13 weeks
Toluene	Ingestion	liver kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL 2,500 mg/kg/day	13 weeks
Toluene	Ingestion	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL 600 mg/kg/day	14 days
Toluene	Ingestion	endocrine system	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL 105 mg/kg/day	28 days
Toluene	Ingestion	immune system	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL 105 mg/kg/day	4 weeks

Aspiration Hazard

Name	Value
Hydrotreated Light Naphtha (Petroleum)	Aspiration hazard
Xylene .	Aspiration hazard
Ethylbenzene	Aspiration hazard
Toluene	Aspiration hazard

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information

Ecotoxicological information

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

Chemical fate information

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

SECTION 13: Disposal considerations

13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Incinerate in a permitted waste incineration facility. Facility must be capable of handling aerosol cans. As a disposal

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alternative, utilize an acceptable permitted waste disposal facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

SECTION 14: Transport Information

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

SECTION 15: Regulatory information

15.1. US Federal Regulations

Contact 3M for more information.

311/312 Hazard Categories:

Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - Yes

Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

<u>Ingredient</u>	<u>C.A.S. No</u>	% by Wt
Ethylbenzene	100-41-4	7 - 13
Xylene	1330-20-7	30 - 60

15.2. State Regulations

Contact 3M for more information.

California Proposition 65

Ingredient	<u>C.A.S. No.</u>	Classification
Ethylbenzene	100-41-4	Carcinogen
Toluene	108-88-3	Female reproductive toxin
Toluene	108-88-3	Developmental Toxin
Benzene	71-43-2	Male reproductive toxin
Benzene	71-43-2	Carcinogen
Benzene	71-43-2	Developmental Toxin

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

WARNING: This product contains a chemical known to the State of California to cause cancer.

15.3. Chemical Inventories

The components of this product are in compliance with the chemical notification requirements of TSCA.

Contact 3M for more information.

15.4. International Regulations

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: Other information

NFPA Hazard Classification

Health: 2 Flammability: 3 Instability: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

HMIS Hazard Classification

Health: 2 Flammability: 3 Physical Hazard: 0 Personal Protection: B

Hazardous Material Identification System (HMIS® III) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® III ratings are to be used with a fully implemented HMIS® III program. HMIS® is a registered mark of the American Coatings Association (ACA).

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Safety Data Sheet

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07/27/12

SECTION 1: Identification

1.1. Product identifier

3M™ PERFECT-IT™ II FOAM POLISHING PAD GLAZE - DARK, 05996, 05986, 39009, 39809

Product Identification Numbers

60-4100-0962-9, 60-4100-0973-6, 60-4400-9509-3, 60-4400-9520-0, IA-2601-6140-0, IA-2601-6141-8, IA-2701-0058-8

1.2. Recommended use and restrictions on use

Recommended use

Automotive, Removal of imperfections from painted surface.

1.3. Supplier's details

MANUFACTURER:

3M

DIVISION:

Automotive Aftermarket

ADDRESS:

3M Center, St. Paul, MN 55144-1000, USA

Telephone:

1-888-3M HELPS (1-888-364-3577)

1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

SECTION 2: Hazard identification

The label elements below were prepared in accordance with OSHA Hazard Communication Standard, 29 CFR 1910.1200. This information may be different from the actual product label information for labels regulated by other agencies.

2.1. Hazard classification

Flammable Liquid: Category 4. Skin Sensitizer: Category 1.

2.2. Label elements

Signal word

Warning

Symbols

Exclamation mark |

Pictograms



Hazard Statements

Combustible liquid.

May cause an allergic skin reaction.

Precautionary Statements

General:

Keep out of reach of children.

Prevention:

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Wear protective gloves and eye/face protection.

Contaminated work clothing must not be allowed out of the workplace.

Response:

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to

extinguish.

Storage:

Store in a well-ventilated place. Keep cool.

Disposal:

Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

2.3. Hazards not otherwise classified

None

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
Water	7732-18-5	40 - 70 Trade Secret *
Hydrotreated Light Petroleum Distillates	64742-47-8	10 - 30 Trade Secret *
Aluminum Oxide	1344-28-1	5 - 10 Trade Secret *
Decamethylcyclopentasiloxane	541-02-6	3 - 7 Trade Secret *
Dodecamethylcyclohexasiloxane	540-97-6	1 - 5 Trade Secret *
Ceramic Materials and Wares, Chemicals	66402-68-4	1 - 5 Trade Secret *
White Mineral Oil (Petroleum)	8042-47-5	0.5 - 1.5 Trade Secret *
Ethylene oxide, polymer with ethylenediamine and	26316-40-5	<= 0.6 Trade Secret *
propylene oxide		

^{*}The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Remove person to fresh air. If you feel unwell, get medical attention.

Skin Contact:

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

Eye Contact:

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

If Swallowed:

Rinse mouth. If you feel unwell, get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1. Information on toxicological effects.

4.3. Indication of any immediate medical attention and special treatment required

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish,

5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode.

Hazardous Decomposition or By-Products

Substance	<u>Condition</u>
Formaldehyde	During Combustion
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion
Oxides of Nitrogen	During Combustion

5.3. Special protective actions for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up

Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible using non-sparking tools. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Seal the container. Dispose of collected material as soon as possible.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Keep out of reach of children. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep cool. Store away from acids. Store away from oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	C.A.S. No.	Адепсу	Limit type	Additional Comments
Aluminum, insoluble compounds	1344-28-1	ACGIH	TWA(respirable fraction):1 mg/m3	A4: Not class, as human carcin
Aluminum Oxide	1344-28-1	OSHA	TWA(as total dust):15 mg/m3;TWA(respirable fraction):5 mg/m3	
Aluminum Oxide	1344-28-1	CMRG	TWA:1 fiber/cc	
Decamethylcyclopentasiloxane	541-02-6	CMRG	TWA:10 ppm	
Kerosine (petroleum)	64742-47-8	ACGIH	TWA(as total hydrocarbon vapor, non-aerosol):200 mg/m3	A3: Confirmed animal carcin., Skin Notation
Hydrotreated Light Petroleum Distillates	64742-47-8	CMRG	TWA:165 ppm	
White Mineral Oil (Petroleum)	8042-47-5	CMRG	TWA:5 mg/m3;STEL:10 mg/m3	
MINERAL OILS, HIGHLY- REFINED OILS	8042-47-5	ACGIH	TWA(inhalable fraction):5 mg/m3	A4: Not class, as human carcin
Paraffin oil	8042-47-5	OSHA	TWA(as mist):5 mg/m3	

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines

OSHA: United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average STEL: Short Term Exposure Limit

CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Safety Glasses with side shields

Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing.

Gloves made from the following material(s) are recommended: Neoprene Nitrile Rubber

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - Neoprene

Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

General Physical Form: Liquid
Specific Physical Form: Emulsion

Odor, Color, Grade: Slight solvent odor, grey liquid

Odor threshold

No Data Available

pH 7.5 - 8.5
Melting point Not Applicable
Boiling Point 375 °F

Flash Point 170 °F [Test Method: Closed Cup]

Evaporation rate

Flammability (solid, gas)

Flammable Limits(LEL)

Flammable Limits(UEL)

Vapor Pressure

Vapor Density

No Data Available
No Data Available
No Data Available
No Data Available

Density 0.96 g/ml

Specific Gravity 0.96 [Ref Std: WATER=1]

Solubility in WaterNegligibleSolubility- non-waterNo Data AvailablePartition coefficient: n-octanol/ waterNo Data Available

Autoignition temperature Decomposition temperature

Viscosity

Hazardous Air Pollutants Volatile Organic Compounds Volatile Organic Compounds

Percent volatile

VOC Less H2O & Exempt Solvents

No Data Available No Data Available 16,000 - 20,000 centipoise

0.0009 lb HAPS/lb solids [Test Method: Calculated] 14.8 % weight [Test Method; calculated per CARB title 2] 145 g/l [Test Method: calculated SCAQMD rule 443.1]

82 % weight

405 g/l [Test Method: calculated SCAQMD rule 443.1]

SECTION 10: Stability and reactivity

10.1. Reactivity

This material is considered to be non reactive under normal use conditions.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

Substance None known. Condition

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation:

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Skin Contact:

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness. Allergic Skin Reaction

(non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Eve Contact:

Contact with the eyes during product use is not expected to result in significant irritation.

Ingestions

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

Name	Route	Species	Value
		Species	
Overall product	Dermal		No data available; calculated ATE > 5,000 mg/kg
Overall product	Inhalation-		No data available; calculated ATE > 12.5 mg/l
	Dust/Mist(4		
	hr)		
Overall product	Ingestion		No data available; calculated ATE > 5,000 mg/kg
Hydrotreated Light Petroleum Distillates	Dermal	Rabbit	LD50 > 3,160 mg/kg
Hydrotreated Light Petroleum Distillates	Inhalation-	Rat	LC50 > 3.0 mg/l
	Dust/Mist	1	
	(4 hours)		
Hydrotreated Light Petroleum Distillates	Ingestion	Rat	LD50 > 5,000 mg/kg
Aluminum Oxide	Dermal		LD50 estimated to be > 5,000 mg/kg
Aluminum Oxide	Inhalation-	Rat	LC50 > 2.3 mg/l
	Dust/Mist		
	(4 hours)		
Aluminum Oxide	Ingestion	Rat	LD50 > 5,000 mg/kg
Decamethylcyclopentasiloxane	Dermal	Rabbit	LD50 > 15,000 mg/kg
Decamethylcyclopentasiloxane	Inhalation-	Rat	LC50 8.7 mg/l
• • •	Dust/Mist		
	(4 hours)		
Decamethylcyclopentasiloxane	Ingestion	Rat	LD50 > 24,134 mg/kg
Dodecamethylcyclohexasiloxane	Dermal	Rat	LD50 > 2,000 mg/kg
Dodecamethylcyclohexasiloxane	Ingestion	Rat	LD50 > 50,000 mg/kg
Ceramic Materials and Wares, Chemicals	Dermal		LD50 estimated to be > 5,000 mg/kg
Ceramic Materials and Wares, Chemicals	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
White Mineral Oil (Petroleum)	Dermal	Rabbit	LD50 > 2,000 mg/kg
White Mineral Oil (Petroleum)	Ingestion	Rat	LD50 > 5,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Hydrotreated Light Petroleum Distillates	Rabbit	Mild irritant
Aluminum Oxide	Rabbit	No significant irritation
Dodecamethylcyclohexasiloxane	Rabbit	No significant irritation
Ceramic Materials and Wares, Chemicals	Rabbit	No significant irritation
White Mineral Oil (Petroleum)	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Hydrotreated Light Petroleum Distillates	Rabbit	Mild irritant
Aluminum Oxide	Rabbit	No significant irritation
Dodecamethylcyclohexasiloxane	Rabbit	No significant irritation
Ceramic Materials and Wares, Chemicals	Rabbit	Mild irritant
White Mineral Oil (Petroleum)	Rabbit	Mild irritant

Skin Sensitization

Name	Species	Value
Hydrotreated Light Petroleum Distillates	Guinea	Not sensitizing

	pig	
White Mineral Oil (Petroleum)	Guinea	Not sensitizing
	pig	

Respiratory Sensitization

For the component/components, either no data are currently available or the data are not sufficient for classification.

Germ Cell Mutagenicity

Name	Route	Value
Hydrotreated Light Petroleum Distillates	In Vitro	Not mutagenic
Aluminum Oxide	In Vitro	Not mutagenic
Ceramic Materials and Wares, Chemicals	In Vitro	Some positive data exist, but the data are not sufficient for classification
White Mineral Oil (Petroleum)	In Vitro	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
Hydrotreated Light Petroleum Distillates	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
Aluminum Oxide	Inhalation	Rat	Not carcinogenic
Ceramic Materials and Wares, Chemicals	Inhalation	Multiple animal species	Some positive data exist, but the data are not sufficient for classification
White Mineral Oil (Petroleum)	Dermal	Mouse	Not carcinogenic
White Mineral Oil (Petroleum)	Inhalation	Multiple	Not carcinogenic
		animal species	

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
Dodecamethylcyclohexasiloxane	Ingestion	Not toxic to female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation
Dodecamethylcyclohexasiloxane	Ingestion	Not toxic to male reproduction	Rat	NOAEL 1,000 mg/kg/day	28 days
Dodecamethylcyclohexasiloxane	Ingestion	Not toxic to development	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation
White Mineral Oil (Petroleum)	Ingestion	Not toxic to female reproduction	Rat	NOAEL 4,350 mg/kg/day	13 weeks
White Mineral Oil (Petroleum)	Ingestion	Not toxic to male reproduction	Rat	NOAEL 4,350 mg/kg/day	13 weeks
White Mineral Oil (Petroleum)	Ingestion	Not toxic to development	Rat	NOAEL 4,350 mg/kg/day	during gestation

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Hydrotreated Light Petroleum Distillates	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and animal	NOAEL Not available	
Hydrotreated Light Petroleum Distillates	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Aluminum Oxide	Inhalation	pneumoconiosis pulmonary fibrosis	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
Dodecamethylcyclohexasil oxane	Ingestion	endocrine system liver respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1,000 mg/kg/day	28 days
Dodecamethylcyclohexasil oxane	Ingestion	nervous system	All data are negative	Rat	NOAEL 1,000 mg/kg/day	28 days
Ceramic Materials and Wares, Chemicals	Inhalation	pulmonary fibrosis	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL not available	
Ceramic Materials and Wares, Chemicals	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL not available	occupational exposure
White Mineral Oil (Petroleum)	Ingestion	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1,381 mg/kg/day	90 days
White Mineral Oil (Petroleum)	Ingestion	liver immune system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1,336 mg/kg/day	90 days

Aspiration Hazard

Name	Value
Hydrotreated Light Petroleum Distillates	Aspiration hazard
White Mineral Oil (Petroleum)	Aspiration hazard

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information

Ecotoxicological information

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

Chemical fate information

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

SECTION 13: Disposal considerations

13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

SECTION 14: Transport Information

3MTM PERFECT-ITTM II FOAM POLISHING PAD GLAZE - DARK, 05996, 05986, 39009, 39809 05/13/15

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

SECTION 15: Regulatory information

15.1. US Federal Regulations

Contact 3M for more information.

311/312 Hazard Categories:

Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - No

Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

<u>Ingredient</u>	C.A.S. No	% by Wt
Aluminum Oxide	1344-28-1	5 - 10
Aluminum Oxide (ALUMINUM OXIDE	1344-28-1	5 - 10
(FIBROUS FORMS ONLY))		

15.2. State Regulations

Contact 3M for more information.

15.3. Chemical Inventories

The components of this product are in compliance with the chemical notification requirements of TSCA.

Contact 3M for more information.

15.4. International Regulations

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: Other information

NFPA Hazard Classification

Health: 2 Flammability: 2 Instability: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

HMIS Hazard Classification

Health: 2 Flammability: 1 Physical Hazard: 0 Personal Protection: X - See PPE section.

Hazardous Material Identification System (HMIS® III) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® III ratings are to be used with a fully implemented HMIS® III program. HMIS® is a registered mark of the American Coatings Association (ACA).

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Safety Data Sheet

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SECTION 1: Identification

1.1. Product identifier

3MTM Weld-Thru II Coating, PN 05917

1.2. Recommended use and restrictions on use

Recommended use

Automotive, Weldable corrosion-resistant coating.

1.3. Supplier's details

MANUFACTURER:

зм

DIVISION:

Automotive Aftermarket

ADDRESS:

3M Center, St. Paul, MN 55144-1000, USA

Telephone:

1-888-3M HELPS (1-888-364-3577)

1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

SECTION 2: Hazard identification

The label elements below were prepared in accordance with OSHA Hazard Communication Standard, 29 CFR 1910.1200. This information may be different from the actual product label information for labels regulated by other agencies.

2.1. Hazard classification

Flammable Aerosol: Category 2.

Serious Eye Damage/Irritation: Category 2A.

Carcinogenicity: Category 2.

Simple Asphyxiant.

Specific Target Organ Toxicity (single exposure): Category 1.

Specific Target Organ Toxicity (central nervous system): Category 3.

Specific Target Organ Toxicity (repeated exposure): Category 1.

2.2. Label elements

Signal word

Danger

Symbols

Flame | Exclamation mark | Health Hazard |

Pictograms



Hazard Statements

Flammable aerosol.

Causes serious eye irritation.
May cause drowsiness or dizziness.
Suspected of causing cancer.
May displace oxygen and cause rapid suffocation.

Causes damage to organs: cardiovascular system | sensory organs |

Causes damage to organs through prolonged or repeated exposure: nervous system |

May cause damage to organs through prolonged or repeated exposure: sensory organs |

Precautionary Statements

General:

Keep out of reach of children.

Prevention:

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Do not spray on an open flame or other ignition source.

Pressurized container: Do not pierce or burn, even after use.

Do not breathe dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

Wear protective gloves and eye/face protection.

Do not eat, drink or smoke when using this product.

Wash thoroughly after handling.

Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If eye irritation persists: Get medical advice/attention. Specific treatment (see Notes to Physician on this label).

Call a POISON CENTER or doctor/physician if you feel unwell.

Storage:

Protect from sunlight. Do not expose to temperatures exceeding 50C/122F. Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal:

Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

Notes to Physician:

Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary.

2.3. Hazards not otherwise classified

None.

34% of the mixture consists of ingredients of unknown acute oral toxicity.

35% of the mixture consists of ingredients of unknown acute dermal toxicity.

51% of the mixture consists of ingredients of unknown acute inhalation toxicity.

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
Acetone	67-64-1	
Liquefied Petroleum Gases	68476-86-8	30 - 60 Trade Secret *
Zinc	7440-66-6	10 - 30 Trade Secret * 7 - 13 Trade Secret *
Xylene	1330-20-7	3 - 7 Trade Secret *
Ethylbenzene	100-41-4	
Resin Blend	Trade Secret*	1 - 5 Trade Secret * 1 - 5 Trade Secret *
Aluminum	7429-90-5	1 - 5 Trade Secret *
Zeolites	1318-02-1	0.1 - 1.5 Trade Secret
Organophilic Clay	Trade Secret*	0.1 - 1.5 Trade Secret *
Synthetic Amorphous Silica, Fumed, Crystalline Free	112945-52-5	0.1 - 1.5 Trade Secret *
Stoddard Solvent	8052-41-3	0.5 - 1.5 Trade Secret *
Potassium Oxide	12136-45-7	0.1 - 1.5 Trade Secret

^{*}The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Remove person to fresh air. Get medical attention.

Skin Contact:

Wash with soap and water. If signs/symptoms develop, get medical attention.

Eye Contact:

Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.

If Swallowed:

Rinse mouth. If you feel unwell, get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1. Information on toxicological effects.

4.3. Indication of any immediate medical attention and special treatment required

Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Use a fire fighting agent suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode.

Hazardous Decomposition or By-Products

Substance Carbon monoxide Carbon dioxide <u>Condition</u> During Combustion During Combustion

5.3. Special protective actions for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

If possible, seal leaking container. Place leaking containers in a well-ventilated area, preferably an operating exhaust hood, or if necessary outdoors on an impermeable surface until appropriate packaging for the leaking container or its contents is available. Contain spill. Cover spill area with a fire-extinguishing foam designed for use on solvents, such as alcohols and acetone, that can dissolve in water. An AR - AFFF type foam is recommended. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with detergent and water. Seal the container. Dispose of collected material as soon as possible.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not use in a confined area with minimal air exchange. Keep out of reach of children. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (gloves, respirators, etc.) as required.

7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight. Do not expose to temperatures exceeding 50C/122F. Store away from heat. Store away from acids. Store away from strong bases. Store away from oxidizing agents. Store away from amines.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
Ethylbenzene	100-41-4	ACGIH	TWA:20 ppm	A3: Confirmed animal
				carcin.
Ethylbenzene	100-41-4	CMRG	TWA:25 ppm;STEL:75 ppm	
Ethylbenzene	100-41-4	OSHA	TWA:435 mg/m3(100 ppm)	
SILICA, AMORPHOUS	112945-52-	OSHA	TWA concentration:0.8	, , , , , , , , , , , , , , , , , , , ,
	5		mg/m3;TWA:20 millions of	
			particles/cu. ft.	
Aluminum, insoluble compounds	1318-02-1	ACGIH	TWA(respirable fraction):1	A4: Not class. as human
			mg/m3	carcin
Xylene	1330-20-7	ACGIH	TWA:100 ppm;STEL:150 ppm	A4: Not class. as human
				carcin
Xylene	1330-20-7	CMRG	TWA:50 ppm;STEL:75 ppm	
Xylene	1330-20-7	OSHA	TWA:435 mg/m3(100 ppm)	
Acetone	67-64-1	ACGIH	TWA:500 ppm;STEL:750 ppm	A4: Not class, as human
				carcin
Acetone	67-64-1	OSHA	TWA:2400 mg/m3(1000 ppm)	
Aluminum	7429-90-5	ACGIH	TWA(respirable fraction):1	A4: Not class, as human
			mg/m3	carcin
Aluminum	7429-90-5	OSHA	TWA(as Al respirable dust):5	***
			mg/m3;TWA(as Al total	
			dust):15 mg/m3	
Stoddard Solvent	8052-41-3	ACGIH	TWA:100 ppm	
Stoddard Solvent	8052-41-3	OSHA	TWA:2900 mg/m3(500 ppm)	

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines

OSHA: United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average STEL: Short Term Exposure Limit

CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

Do not remain in area where available oxygen may be reduced. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:
Indirect Vented Goggles

Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the

substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity. Gloves made from the following material(s) are recommended: Polyvinyl Alcohol (PVA) Polymer laminate

Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece supplied-air respirator

For questions about suitability for a specific application, consult with your respirator manufacturer.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

General Physical Form: Liquid Specific Physical Form: Aerosol

Odor, Color, Grade: Gray/Metallic appearance with solvent odor.

Odor thresholdNo Data AvailablepHNot ApplicableMelting pointNot ApplicableBoiling PointNot Applicable

Flash Point -156 °F [Test Method: Pensky-Martens Closed Cup]

Evaporation rate

Flammability (solid, gas)

Flammable Limits(LEL)

Flammable Limits(UEL)

Vapor Pressure

No Data Available

Not Applicable

0.7 %

12.8 %

80 - 90 mmHg

Vapor Density [Details: Heavier than air]
Specific Gravity 0.796 [Ref Std: WATER=1]

Solubility in Water Appreciable
Solubility- non-water No Data Available
Partition coefficient: n-octanol/ water No Data Available
Autoignition temperature No Data Available
Decomposition temperature No Data Available
Viscosity No Data Available

Hazardous Air Pollutants 0.43 lb HAPS/lb solids [Test Method: Calculated]

Volatile Organic Compounds33.97 % weight [Test Method: calculated per CARB title 2]Volatile Organic Compounds270 g/l [Test Method: calculated SCAQMD rule 443.1]

Percent volatile 35.64 % weight

VOC Less H2O & Exempt Solvents 530 g/l [Test Method: calculated SCAQMD rule 443.1]

SECTION 10: Stability and reactivity

10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Heat

10.5. Incompatible materials

Strong acids
Strong bases
Strong oxidizing agents
Amines

10.6. Hazardous decomposition products

Substance

None known.

Condition

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation:

Simple Asphyxiation: Signs/symptoms may include increased heart rate, rapid respirations, drowsiness, headache, incoordination, altered judgement, nausea, vomiting, lethargy, seizures, coma, and may be fatal.

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

May cause additional health effects (see below).

Skin Contact:

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness.

Eve Confact:

Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

May cause additional health effects (see below).

Additional Health Effects:

Single exposure may cause target organ effects:

Auditory Effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears.

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

Single exposure, above recommended guidelines, may cause:

Cardiac Sensitization: Signs/symptoms may include irregular heartbeat (arrhythmia), faintness, chest pain, and may be fatal.

Prolonged or repeated exposure may cause target organ effects:

Auditory Effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears.

Neurological Effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness, tremors, and/or changes in blood pressure and heart rate.

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

Ingredient	CAS No.	Class Description	Regulation
Ethylbenzene	100-41-4	Grp. 2B: Possible human carc.	International Agency for Research on Cancer

Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE > 5,000 mg/kg
Overall product	Inhalation- Vapor(4 hr)		No data available; calculated ATE > 50 mg/l
Overall product	Ingestion		No data available; calculated ATE > 5,000 mg/kg
Acetone	Dermal	Rabbit	LD50 > 15,688 mg/kg
Acetone	Inhalation- Vapor (4 hours)	Rat	LC50 76 mg/l
Acetone	Ingestion	Rat	LD50 5,800 mg/kg
Liquefied Petroleum Gases	Inbalation- Gas (4 hours)	Rat	LC50 277,000 ppm
Zinc	Dermal	Rabbit	LD50 > 5,000 mg/kg
Zinc	Inhalation- Dust/Mist	Rat	LC50 > 5.4 mg/l
Zinc	Ingestion	Rat	LD50 > 2,000 mg/kg
Xylene	Dermal	Rabbit	LD50 > 4,200 mg/kg
Xylene	Inhalation- Vapor (4 hours)	Rat	LC50 29 mg/l
Xylene	Ingestion	Rat	LD50 3,523 mg/kg
Aluminum	Dermal		LD50 estimated to be > 5,000 mg/kg
Aluminum	Ingestion		LD50 estimated to be > 5,000 mg/kg
Aluminum	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > .888 mg/l
Ethylbenzene	Dermal	Rabbit	LD50 15,433 mg/kg
Ethylbenzene	Inhalation- Vapor (4 hours)	Rat	LC50 17.4 mg/l
Ethylbenzene	Ingestion	Rat	LD50 4,769 mg/kg
Stoddard Solvent	Inhalation- Vapor		LC50 estimated to be 20 - 50 mg/l
Stoddard Solvent	Dermal	Rabbit	LD50 > 3,000 mg/kg
Stoddard Solvent	Ingestion	Rat	LD50 > 5,000 mg/kg

3MTM Weld-Thru II Coating, PN 05917 03/03/15

Organophilic Clay	Inhalation-	Not	LC50 > 5 mg/l
	Dust/Mist	available	
	(4 hours)		
Zeolites	Dermal	Rabbit	LD50 > 2,000 mg/kg
Organophilic Clay	Ingestion	Rat	LD50 > 5,000 mg/kg
Zeolites	Inhalation- Dust/Mist	Rat	LC50 > 4.57 mg/l
	(4 hours)		
Zeolites	Ingestion	Rat	LD50 > 5,000 mg/kg
Synthetic Amorphous Silica, Fumed, Crystalline Free	Dermal	Rabbit	LD50 > 5,000 mg/kg
Synthetic Amorphous Silica, Fumed, Crystalline Free	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 0.691 mg/l
Synthetic Amorphous Silica, Fumed, Crystalline Free	Ingestion	Rat	LD50 > 5,110 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value	
Acetone	Mouse	Minimal irritation	
Liquefied Petroleum Gases	Professio	No significant irritation	
	nal	_	
	judgeme		
	nt		
Xylene	Rabbit	Mild irritant	
Aluminum	Rabbit	No significant irritation	
Ethylbenzene	Rabbit	Mild irritant	
Stoddard Solvent	Rabbit	Irritant	
Zeolites	Rabbit	No significant irritation	
Synthetic Amorphous Silica, Fumed, Crystalline Free	Rabbit	No significant irritation	,

Serious Eye Damage/Irritation

Name	Species	Value
Acetone	Rabbit	Severe irritant
Liquefied Petroleum Gases	Professio	No significant irritation
	nal	_
	judgeme	
	nt	
Xylene	Rabbit	Mild irritant
Aluminum	Rabbit	No significant irritation
Ethylbenzene	Rabbit	Moderate irritant
Stoddard Solvent	Rabbit	No significant irritation
Zeolites	Rabbit	Mild irritant
Synthetic Amorphous Silica, Fumed, Crystalline Free	Rabbit	No significant irritation

Skin Sensitization

Name	Species	Value	
Aluminum	Guinea	Not sensitizing	
	pig	_	
Ethylbenzene	Human	Not sensitizing	
Stoddard Solvent	Guinea	Not sensitizing	
	pig	ļ	
Synthetic Amorphous Silica, Fumed, Crystalline Free	Human	Not sensitizing	
	and		
	animal		

Respiratory Sensitization

respiratory bensitization			
Name	Species	Value]
Aluminum	Human	Some positive data exist, but the data are not	

Germ Cell Mutagenicity

Route Value	Name

Acetone	In vivo	Not mutagenic
Acetone	In Vitro	Some positive data exist, but the data are not sufficient for classification
Liquefied Petroleum Gases	In Vitro	Not mutagenic
Xylene	In Vitro	Not mutagenic
Xylene	In vivo	Not mutagenic
Aluminum	In Vitro	Not mutagenic
Ethylbenzene	In vivo	Not mutagenic
Ethylbenzene	In Vitro	Some positive data exist, but the data are not sufficient for classification
Stoddard Solvent	In vivo	Not mutagenic
Stoddard Solvent	In Vitro	Some positive data exist, but the data are not sufficient for classification
Synthetic Amorphous Silica, Fumed, Crystalline Free	In Vitro	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
Acetone	Not	Multiple	Not carcinogenic
	Specified	animal	
		species	
Xylene	Dermal	Rat	Not carcinogenic
Xylene	Ingestion	Multiple	Not carcinogenic
		animal	
		species	
Xylene	Inhalation	Human	Some positive data exist, but the data are not
			sufficient for classification
Ethylbenzene	Inhalation	Multiple	Carcinogenic
		animal	
		species	
Stoddard Solvent	Dermal	Mouse	Some positive data exist, but the data are not
			sufficient for classification
Stoddard Solvent	Inhalation	Human	Some positive data exist, but the data are not
		and	sufficient for classification
		animal	
Synthetic Amorphous Silica, Fumed, Crystalline Free	Not	Mouse	Some positive data exist, but the data are not
	Specified		sufficient for classification

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
Acetone	Ingestion	Not toxic to female reproduction	Mouse	NOAEL 11,298 mg/kg/day	13 weeks
Acetone	Ingestion	Some positive male reproductive data exist, but the data are not sufficient for classification	Rat	NOAEL 1,700 mg/kg/day	13 weeks
Acetone	Inhalation	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 5.2 mg/l	during organogenesi s
Xylene	Ingestion	Not toxic to female reproduction	Mouse	NOAEL 1,000 mg/kg/day	103 weeks
Xylene	Ingestion	Not toxic to male reproduction	Mouse	NOAEL 1,000 mg/kg/day	103 weeks
Xylene	Inhalation	Some positive female reproductive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
Xylene	Ingestion	Some positive developmental data exist, but the data are not sufficient for classification	Mouse	NOAEL Not available	during organogenesi s
Xylene	Inhalation	Some positive developmental data exist, but the data are not sufficient for	Multiple animal	NOAEL Not available	during gestation

		classification	species		
Ethylbenzene	Inhalation	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 4.3 mg/l	premating & during gestation
Stoddard Solvent	Inhalation	Not toxic to development	Rat	NOAEL 2.4 mg/l	during organogenesi s
Synthetic Amorphous Silica, Fumed, Crystalline Free	Ingestion	Not toxic to female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Synthetic Amorphous Silica, Fumed, Crystalline Free	Ingestion	Not toxic to male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Synthetic Amorphous Silica, Furned, Crystalline Free	Ingestion	Not toxic to development	Rat	NOAEL 1,350 mg/kg/day	during organogenesi s

Lactation

Name	Route	Species	Value
Xylene	Ingestion	Mouse	Does not cause effects on or via lactation

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Acetone	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
Acetone	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
Acetone	Inhalation	immune system	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL 1.19 mg/l	6 hours
Acetone	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Guinea pig	NOAEL Not available	
Acetone	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	poisoning and/or abuse
Liquefied Petroleum Gases	Inhalation	cardiac sensitization	Causes damage to organs	similar compoun ds	NOAEL Not available	
Liquefied Petroleum Gases	Inhalation	central nervous system depression	May cause drowsiness or dizziness		NOAEL Not available	
Liquefied Petroleum Gases	Inhalation	respiratory irritation	All data are negative		NOAEL Not available	
Xylene	Inhalation	auditory system	Causes damage to organs	Rat	LOAEL 6.3 mg/l	8 hours
Xylene	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
Xylene	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Xylene	Inhalation	eyes	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 3.5 mg/l	not available
Xylene	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL Not available	
Xylene	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Multiple animal species	NOAEL Not available	
Xylene	Ingestion	eyes	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 250 mg/kg	not applicable
Ethylbenzene	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	

Ethylbenzene	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for	Human and	NOAEL Not available	
			classification	animal		
Stoddard Solvent	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and animal	NOAEL Not available	
Stoddard Solvent	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
Stoddard Solvent	Inhalation	nervous system	Some positive data exist, but the data are not sufficient for classification	Dog	NOAEL 6.5 mg/l	4 hours

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Acetone	Dermal	eyes	Some positive data exist, but the data are not sufficient for classification	Guinea pig	NOAEL Not available	3 weeks
Acetone	Inhalation	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL 3 mg/l	6 weeks
Acetone	Inhalation	immune system	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL 1.19 mg/l	6 days
Acetone	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Guinea pig	NOAEL 119 mg/l	not available
Acetone	Inhalation	heart liver	All data are negative	Rat	NOAEL 45 mg/l	8 weeks
Acetone	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 900 mg/kg/day	13 weeks
Acetone	Ingestion	heart	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 2,500 mg/kg/day	13 weeks
Acetone	Ingestion	hematopoletic system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 200 mg/kg/day	13 weeks
Acetone	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL 3,896 mg/kg/day	14 days
Acetone	Ingestion	eyes	All data are negative	Rat	NOAEL 3,400 mg/kg/day	13 weeks
Acetone	Ingestion	respiratory system	All data are negative	Rat	NOAEL 2,500 mg/kg/day	13 weeks
Acetone	Ingestion	muscles	All data are negative	Rat	NOAEL 2,500 mg/kg	13 weeks
Acetone	Ingestion	skin bone, teeth, nails, and/or hair	All data are negative	Mouse	NOAEL 11,298 mg/kg/day	13 weeks
Liquefied Petroleum Gases	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL Not available	
Xylene	Inhalation	nervous system	Causes damage to organs through prolonged or repeated exposure	Rat	LOAEL 0.4 mg/l	4 weeks
Xylene	Inhalation	auditory system	May cause damage to organs though prolonged or repeated exposure	Rat	LOAEL 7.8 mg/l	5 days
Xylene	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL Not available	
Xylene	Inhalation	heart endocrine system hematopoietic	All data are negative	Multiple animal species	NOAEL 3.5 mg/l	13 weeks

		system muscles				
		kidney and/or				
		bladder respiratory system				
Xylene	Ingestion	auditory system	Some positive data exist, but the	Rat	NOAEL 900	2 weeks
			data are not sufficient for classification		mg/kg/day	
Xylene	Ingestion	kidney and/or	Some positive data exist, but the	Rat	NOAEL	90 days
		bladder	data are not sufficient for classification		1,500 mg/kg/day	ļ
Xylene	Ingestion	liver	Some positive data exist, but the	Multiple	NOAEL Not	
-25.00.0	l ingesion	•	data are not sufficient for classification	animal species	available	
Xylene	Ingestion	heart skin endocrine system bone, teeth, nails, and/or hair hematopoietic system immune system nervous system respiratory	All data are negative	Mouse	NOAEL 1,000 mg/kg/day	103 weeks
Aluminum	Inhalation	system nervous system	Some positive data exist, but the	Human	NOAEL Not	occupational
Aiuminum	плаганон	respiratory system	data are not sufficient for classification	riuman	available	exposure
Ethylbenzene	Inhalation	kidney and/or	Some positive data exist, but the	Rat	NOAEL 1.1	2 years
		bladder	data are not sufficient for classification		mg/l	
Ethylbenzene	Inhalation	liver	Some positive data exist, but the data are not sufficient for	Mouse	NOAEL 1.1 mg/l	103 weeks
			classification	ļ	"""	
Ethylbenzene	Inhalation	hematopoietic system	Some positive data exist, but the data are not sufficient for	Rat	NOAEL 3.4 mg/l	28 days
Ethylbenzene	Inhalation	auditory system	classification Some positive data exist, but the	Rat	NOAEL 2,4	5 days
Striy rocuzono		additional system	data are not sufficient for classification	- Kut	mg/l	3 days
Ethylbenzene	Inhalation	endocrine system	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL 3.3 mg/l	103 weeks
Ethylbenzene	Inhalation	bone, teeth, nails, and/or hair muscles	All data are negative	Multiple animal species	NOAEL 4.2 mg/l	90 days
Ethylbenzene	Inhalation	heart immune system respiratory system	All data are negative	Multiple animal species	NOAEL 3.3 mg/l	2 years
Ethylbenzene	Ingestion	liver kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 680 mg/kg/day	6 months
Stoddard Solvent	Inhalation	nervous system	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 4.6 mg/l	6 months
Stoddard Solvent	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 1.9 mg/l	13 weeks
Stoddard Solvent	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL 0.6 mg/l	90 days
Stoddard Solvent	Inhalation	bone, teeth, nails, and/or hair blood liver muscles	All data are negative	Rat	NOAEL 5.6 mg/l	12 weeks
Stoddard Solvent	Inhalation	heart	All data are negative	Multiple animal species	NOAEL 1.3 mg/l	90 days
Synthetic Amorphous Silica, Fumed, Crystalline Free	Inhalation	respiratory system silicosis	All data are negative	Human	NOAEL Not available	occupational exposure

Aspiration Hazard

Name	Value
Xylene	Aspiration hazard
Ethylbenzene	Aspiration hazard
Stoddard Solvent	Aspiration hazard

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information

Ecotoxicological information

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

Chemical fate information

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

SECTION 13: Disposal considerations

13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Incinerate in a permitted waste incineration facility. Facility must be capable of handling aerosol cans. As a disposal alternative, utilize an acceptable permitted waste disposal facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

SECTION 14: Transport Information

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

SECTION 15: Regulatory information

15.1. US Federal Regulations

Contact 3M for more information.

311/312 Hazard Categories:

Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - Yes

Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

Ingredient	<u>C.A.S. No</u>	% by Wt
Xylene	1330-20-7	3 - 7
Xylene (Benzene, 1,2-dimethyl-)	1330-20-7	3 - 7
Xylene (Benzene, 1,3-dimethyl-)	1330-20-7	3 - 7
Xylene (Benzene, 1,4-dimethyl-)	1330-20-7	3 - 7
Xylene (Benzene, dimethyl-)	1330-20-7	3 - 7
Aluminum	7429-90-5	1 - 5

Aluminum (Aluminum)	7429-90-5	1 - 5
Ethylbenzene	100-41-4	1 - 5
Zinc	7440-66-6	7 - 13
Zinc (Zinc)	7440-66-6	7 - 13

15.2. State Regulations

Contact 3M for more information.

California Proposition 65

Ingredient	<u>C.A.S. No.</u>	Classification
Ethylbenzene	100-41-4	Carcinogen

WARNING: This product contains a chemical known to the State of California to cause cancer.

15.3. Chemical Inventories

The components of this product are in compliance with the chemical notification requirements of TSCA.

Contact 3M for more information.

15.4. International Regulations

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: Other information

NFPA Hazard Classification

Health: 2 Flammability: 4 Instability: 0 Special Hazards: None Aerosol Storage Code: 2

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

 Document Group:
 18-7877-6
 Version Number:
 6.00

 Issue Date:
 03/03/15
 Supercedes Date:
 03/27/12

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3M USA SDSs are available at www.3M.com

Safety Data Sheet

According to SS586:2014

Formula 409® Antibacterial All-Purpose Cleaner

Version 1.0

Issue date:10/10/2014 Revision date: 10/10/2014

SDS Record Number: CSSS-TCO-010-115561

Section 1 Identification of the substance/mixture and of the company/undertaking

Product identifier:

Identification on the label/Trade name:

Formula 409® Antibacterial All-Purpose Cleaner

Additional identification:

Not available See section 3

Identification of the product:

Not available

REACH registration No.:

Index Number:

Not available

Relevant identified uses of the substance and uses advised against:

Identified uses:

Germicidal Cleaner.

Uses advised against:

Not available.

Details of the supplier of the safety data sheet:

Supplier(Manufacturer):

The Clorox Company

Address:

1221 Broadway Oakland, CA 94612 USA

Contact person(E-mail):

-

Telephone:

1-510-271-7000

Fax:

_

YES

Emergency telephone Number:

For Medical Emergencies call: 1-800-446-1014

Transportation Emergencies, call Chemtrec: 1-800-424-9300

Available outside office hours?

NO

X

Section 2 Hazards Identification

Classification of the substance/mixture:

GHS Classification

Not Classified

label elements:

Hazard Pictograms:

No hazard Pictogram is used.

Signal Word(S):

No signal word is used.

Hazard Statement:

Not applicable.

Precautionary statement:

Not applicable.

Other hazards:

Not available.

Section 3 Composition/Information on ingredients

Substance/Mixture:

Mixture

Product name: Formula 409® Antibacterial All-Purpose Cleaner

Version #: 1.0

Issue date: 10-10-2014.

Revision date: 10-10-2014.

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Ingredient(s):

Chemical Name	Registration No.	CAS No.	EC No.	Concentration
Lauramine oxide	N/A	1643-20-5	216-700-6	1-5%
Alkyl (C12-16) dimethylbenzylammonium chloride	N/A	270-325-2	231-598-3	0.1-1%

Section 4 First aid measures

Description of first aid measures:

In all cases of doubt, or when symptoms persist, seek medical attention.

In case of inhalation:

Move to fresh air. If symptoms persist, call a physician.

In case of skin contact:

Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.

In case of eyes contact:

Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.

In case of ingestion:

Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed:

The product is not classified as harmful to human health effect.

Indication of any immediate medical attention and special treatment needed:

Treat symptomatically.

Section 5 Fire-Fighting measures

Extinguishing media:

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Unsuitable extinguishing media:

Use of water spray when fighting fire may be inefficient.

Special hazards arising from the

substance or mixture

Carbon oxides.

Special fire fighting methods and

special protective actions for

fire-fighters:

As in any fire, wear self-contained breathing apparatus pressure-demand,

MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Use For non-emergency personnel:

personal protective equipment. Evacuate personnel to safe areas. Keep people

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away from and upwind of spill/leak.

Wear an appropriate NIOSH/MSHA approved respirator if dust is generated. For emergency responders:

Environmental Precautions: Do not allow material to contaminate ground water system. Prevent product from

entering drains.

Methods for Containment and Cleaning up: Prevent further leakage or spillage if safe to do so. Collect and transfer to properly

Product name: Formula 409® Antibacterial All-Purpose Cleaner SDS EU Version #: 1.0 Issue date:10-10-2014. Revision date: 10-10-2014.

labeled containers.

Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

Additional information:

Not applicable.

Section 7 Handling and storage

Precautions for safe handling:

Protective measures:

Handle in accordance with good industrial hygiene and safety practice. Avoid

contact with eyes. Avoid contact with skin. Avoid contact with skin and eyes.

Advice on general occupational hygiene:

Do not eat, drink and smoke in work areas. Wash hands after use. Remove

contaminated clothing and protective equipment before entering eating areas.

Conditions for safe storage, including

any incompatibilities:

Keep containers tightly closed in a dry, cool and well-ventilated place.

Not applicable.

Section 8 Exposure Controls/Personal Protection

Control parameters:

Specific end use(s):

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA:

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Singapore Permissible	Not Available					
Exposure Limits of						
Toxic Substances						

EMERGENCY LIMITS:

Ingredient	TEEL-0	TEEL-1	TEEL-2	TEEL-3
Singapore	Not Available	Not Available	Not Available	Not Available

Ingredient	Original IDLH	Revised IDLH
Lauryldimethylamine oxide	Not Available	Not Available
benzyl-C12-16-alkyldimethylammonium chloride	Not Available	Not Available

Exposure controls:

Appropriate engineering controls:

Exhaust ventilation should be designed to prevent accumulation and recirculation in

the workplace and safely remove carbon black from the air.

Individual protection measures, such as personal protective equipment:

Eye/face protection:

No special protective equipment required.

Hand protection:

No special protective equipment required.

Body protection:

No special protective equipment required.

Respiratory protection:

No protective equipment is needed under normal use conditions. If exposure limits

are exceeded or irritation is experienced, ventilation and evacuation may be

required.

Thermal hazards:

Wear suitable protective clothing to prevent heat.

Environmental exposure controls:

According to local regulations, Federal and official regulations.

Section 9 Physical and chemical properties

Product name: Formula 409® Antibacterial All-Purpose Cleaner

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Information on basic physical and chemical properties:

Appearance:

Liquid

Colour:

Clear Green

Odour:

Floral Citrus

Odour threshold:

Not available

pH:

10.5

Melting point/range (°C):

Not available

Boiling point/range (°C):

Not available

Flash point (°C):

Not available

Evaporation rate:

Not available

Flammability limit - lower (%):

Not available

Flammability (solid, gas):

Not available

Ignition temperature (°C):

Not available

Upper/lower flammability/explosive limits: Vapour pressure (20°C):

Not available

Not available

Vapour density:

Not available

Density:

Not available

Bulk density (kg/m³):

Not available

Water solubility (g/l):

Soluble in water.

n-Octanol/Water (log Po/w):

Not available

Auto-ignition temperature:

Not available

Decomposition temperature: Viscosity, dynamic (mPa.s):

Not available

Explosive properties:

Not available Not available

Oxidising properties:

Not available

Molecular Formula:

Not available

Molecular Weight:

Not available

Other information:

Fat solubility(solvent- oil to be specified)

Not available

etc:

Surface tension:

Specific gravity:

Not available

Dissociation constant in water(pKa):

Not available Not available

Oxidation-reduction Potential:

Not available

Section 10 Stability and reactivity

Reactivity:

The substance is stable under normal storage and handling conditions.

Chemical stability:

Stable at room temperature in closed containers under normal storage and handling

conditions.

Possibility of hazardous reactions:

No dangerous reactions known.

Conditions to avoid:

Not available.

Incompatible materials:

Not available.

Hazardous decomposition products:

Carbon oxides.

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Revision date: 10-10-2014.

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Section 11 Toxicological information

Toxicokinetics, metabolism and distribution:

Non-human toxicological data:

Not available

Information on toxicological effects:

Acute toxicity:

LD50(Oral, Rat):

Not available

LD50(Dermal, Rabbit):

Not available

LC50(Inhalation, Rat):

Not available

Skin corrosion/Irritation:

Not classified

Serious eye damage/irritation:

Not classified

Respiratory or skin sensitization:

Not classified

Germ cell mutagenicity:

Not classified

Carcinogenicity:

Not classified

Reproductive toxicity:

Not classified

STOT- single exposure:

Not classified

STOT-repeated exposure:

Not classified

Section 12 Ecological Information

Toxicity:

Acute t	oxicity	Time	Species	Method	Evaluation	Remarks
LC50	N/A	96h	Fish	OECD 203	N/A	N/A
EC50	N/A	48h	Daphnia	OECD 202	N/A	N/A
EC50	N/A	72h	Algae	OECD 201	N/A	N/A

Persistence and degradability:

Not available.

Bioaccumulative potential:

Not available.

Mobility in soil:

Not available.

Results of PBT&vPvB assessment:

Not available.

Other adverse effects:

Not available.

Section 13 Disposal considerations

Waste treatment methods:

The material should be disposed of by incineration in a chemical incinerator in

compliance with national and regional requirements.

Product / Packaging disposal:

If empty container retains product residues, all label precautions must be observed.

Return for reuse or dispose according to national or local regulations.

Section 14 Transport information						
	Land transport(ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)			
UN-Number	Not regulated	Not regulated	Not regulated			
UN Proper shipping name	Not regulated	Not regulated	Not regulated			

Transport hazard Class	Not regulated	Not regulated	Not regulated
Packaging group	Not regulated	l	Not regulated
Environmental hazards	Not regulated	Yes	Not regulated
Special precautions for user	See section 2.2	See section 2.2	See section 2.2
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not regulated	Not regulated	Not regulated

Section 15 Regulation information

Safety, health and environmental regulations/legislation specific for the substance or mixture:

Lauramine oxide	Not available.
Alkyl (C12-16) dimethylbenzylammonium chloride	Not available.

Section 16 Other information

Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Author: Hangzhou CIRS Co., Limited Website: <u>www.cirs-group.com</u> Tel:0571-87206555 Email:info@cirs-group.com



Material Safety Data Sheet

MSDS: GPM-7

SECTION 1: CHEMICAL PRODUCT AND COMPANY INFORMATION

Company: HAZARD RATING **SCALE** IDQ Operating Inc. Health 0 = Insignificant 1 2901 W Kingsley Dr. Fire: 1 I = SlightGarland, Texas 75041 Reactivity: 2 = Moderate Phone No.: 1-888-396-0422 Special: 3 = HighCHEMTREC Phone No.: 1-800-424-9300 Toxicity: 1 4 = Extreme

Product Description: Automotive Refrigerant with Lubrication Oil

Name: Medium Viscosity PAG Lubricant (ISO 100) with ICE 32 for R-134a A/C Systems, 8 oz

Product Code: GPM-7
MSDS Date: 11-19-2010

SECTION 2: COMPOSITION AND INFORMATION ON INGREDIENTS

No.	Description	CAS Reg. No.	Units	Amount
1	Polyalkylene Glycol	Trade Secret	% vol	30-90
2	Additive Package	Trade Secret	% vol	10-70

This product contains no known hazardous materials as defined by OSHA hazard communication standard 29 CFR 1910.1200 and SARA 311 and 312.

SECTION 3: HAZARDS INFORMATION

Portals of Entry: Ingestion, eye contact, skin contact, and dermal absorption.

Inhalation: Inhalation of vapor concentrations should not occur at STP conditions.

Eye Contact: Liquid splashes may cause eye irritation.

Skin Contact: Frequent contact can cause skin irritations, dermatitis, oil acne, absorption of certain components can occur.

Ingestion: The product, if ingested, could cause nausea, gastrointestinal disturbances, headaches, drowsiness, vertigo, abdominal pain, and dizziness.

Delayed Effects: Prolonged and repeated overexposure can cause irritation of the respiratory tract and mucous membranes, central nervous system (CNS) effects, blood dysfunction, and kidney effects.

^{*} Trade secret – proprietary formula. Specific chemical identities are withheld as a trade secret under the provisions of OSHA hazard communication standard 29 CFR 1910.1200.

IDQ, Inc. Garland, Texas

Material Safety Data Sheet

Nov 19, 2010

GPM-7 Medium Viscosity Oil with ICE 32 for A/C Systems, 8 oz

HEALTH EFFECTS FROM OVEREXPOSURE:

Primary Routes of Exposure: Skin contact.

SECTION 4: FIRST AID MEASURES

Inhalation: Inhalation under normal exposure should not cause problems; however if inhalation has resulted in symptoms, move patient to fresh air. If breathing is difficult, give oxygen. Give artificial respiration if breathing has stopped. Get prompt medical attention.

Eye Contact: Immediately flush eyes with a large amount of water for at least 15 minutes. If symptoms exist and/or persist, get prompt medical attention.

Skin Contact: Wash affected skin areas thoroughly with soap and water. Remove contaminated clothing. If skin irritation persists, see a physician.

Ingestion: If swallowed, give large quantities of water to drink. Induce vomiting. Careful gastric lavage may be indicated. Immediately see a physician. Never give anything by mouth nor induce vomiting of an unconscious person.

SECTION 5: FIRE FIGHTING MEASURES

Unusual Hazards: Toxic fumes are generated when material is exposed to fire and fire conditions.

Extinguishing Agents: Use the following extinguishing media when fighting fires involving this material: polar solvent foam, carbon dioxide, dry chemical, and water spray. Product is immiscible and insoluble in water and has a lower specific gravity than water; therefore, product will float on water surface.

Personal Protective Equipment: Wear self-contained breathing apparatus and full protective gear.

Special Precautions: Use water spray to cool large containers exposed to fire. Vapors are denser than air and will have a tendency to accumulate in lower areas which can cause the vapors to concentrate and suffocate. If the product is exposed to fire or an ignition source that results in flammability, extinguish with polar solvent foam, carbon dioxide, dry chemical, and water spray.

FIRE AND EXPLOSIVE PROPERTIES:

PROPERTY

Flash Point (°C); [°F]:

176; 348

Auto-Ignition Temperature (°C):

Not Determined

Lower Explosive Limit (ppm):

Not Known

Upper Explosive Limit (ppm):

Not Known

SECTION 6: ACCIDENTAL SPILL OR LEAK RELEASE INFORMATION

Personal Protection: Appropriate protective equipment must be worn when handling a large spill of this material. See the PERSONAL PROTECTION MEASURES Section for recommendations. If exposed to material during cleanup operations, see the FIRST AID PROCEDURES Section for actions to follow.

IDQ, Inc. Garland, Texas

Material Safety Data Sheet

Nov 19, 2010

GPM-7 Medium Viscosity Oil with ICE 32 for A/C Systems, 8 oz

Procedures: Evacuate the spill area. Floor may be slippery if non-volatile components in product have wetted the floor; use care to avoid falling. Ventilate the spill area. Contain non-volatile material spills immediately with inert adsorption materials. Transfer liquids and solid adsorption materials and diking material to separate suitable containers for recovery or disposal.

CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

SECTION 7: HANDLING AND STORAGE

Storage Conditions: Store in a cool, well ventilated place. Keep containers dry. Store product away from reactive and corrosive materials. The minimum recommended storage temperature for this material is -29° C/ -20° F. The maximum storage temperature is 49° C/ 120° F.

Handling Procedures: The vapor concentration levels in air need to be keep below occupational exposure limits and keep as low as practicable. Do not mix product with air or oxygen under pressure. Avoid exposure of product to flame or very hot surfaces. Vapors can be evolved when material is being used in processing operations. See FACILITY CONTROL MEASURES Section for types of ventilation required.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Respiratory Protection: A respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. If respiratory protection is needed, use, MSHA-NIOSH approved respirator for organic vapors. None required if airborne concentrations are maintained below the TWA/TLV's listed in the COMPONENT EXPOSURE INFORMATION Section.

Up to 10 times the TWA/TLV: Wear a half-mask, air purifying respirator.

Up to 1000 ppm organic vapor: Wear an approved full-face piece, air-purifying respirator.

Above 1000 ppm organic vapor or unknown: Wear an approved positive pressure mode, or an approved full-face piece airline respirator in the positive pressure mode with emergency escape provisions.

Air purifying respirators should be equipped with organic vapor cartridges.

Eye Protection: Use eye goggles and/or face shield.

Hand Protection: The gloves listed below may provide protection against permeation. Gloves of other chemically resistant materials may not provide adequate protection: Polyvinyl alcohol and Viton.

Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough.

Other Protection: Use chemically resistant apron or other impervious clothing to avoid prolonged or repeated skin contact.

FACILITY CONTROL MEASURES:

Ventilation: Use normal local exhaust ventilation with a minimum capture velocity of 100 ft/min (30 m/min) at the point of vapor evolution.

Other Protective Equipment: Facilities storing and utilizing this material should be equipped with an eyewash facility and a safety shower.

GPM-7 Medium Viscosity Oil with ICE 32 for A/C Systems, 8 oz

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

TYPICAL PHYSICAL PROPERTIES:

PROPERTY	METRIC UNITS	ENGLISH UNITS	
Appearance:	Liquid in Plasti	c Container	
Color:	Light Amber	Light Amber	
State:	Liquid	Liquid	
Odor Characteristics:	Ethereal	Ethereal	
Viscosity (CP @ 20° C); [CP @ 68° F]:	84-106	84-106	
Specific Gravity (d/do 4°C); [d/do 39°F]	1.03	1.03	
Density (gr/cm³); [lb/gal]	1.14	9.48	
Vapor Density (Air = 1.0):	9	9	
Vapor Pressure (mm Hg @ 20° C); [psia]:	0.01	0.01	
Melting Point (°C); [°F]:	NA	NA	
Boiling Point (°C); [°F]:	300	572	
Solubility in Water (by weight):	88%	88%	
Evaporation Rate (n-butyl acetate = 1.0):	NA	NA	
pH (product or water extract)	< 8	< 8	
Percent Volatility (% wt):	NA	NA	

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Thermal Decomposition Products: Thermal decomposition depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: aldehydes, alcohols, ethers and organic acids.

Hazardous Polymerization: Product will not undergo polymerization.

Incompatibility: Avoid contact with strong oxidizing agents, strong acids and strong bases.

IDQ, Inc. Garland, Texas

Material Safety Data Sheet

Nov 19, 2010

GPM-7 Medium Viscosity Oil with ICE 32 for A/C Systems, 8 oz

SECTION 11: TOXICOLOGICAL INFORMATION

COMPONENT EXPOSURE INFORMATION:

No.	Description	CAS Reg. No.	Units	Max. Amount Amount
1	Polyalkylene Glycol	Trade Secret	% vol	30-90
2	Additive Package	Trade Secret	% vol	10-70

Exposure Information for Specific Component:

	Health	Flam.	Reactivity	Component		OSHA		ACG	IH	
No.	Rating	Rating	Rating	Units	TWA	STEL	TWA	STEL	IDLH	HAP
1	0	1	0	ppm	NA	NA	NA	NA	NA	No
2	1	1	0	ppm	NA	NA	NA	NA	NA	No

NA: Not Available; ppm: parts per million

Note: 1 ppm equals 3.8 mg/m³; 5 ppm equals 19 mg/m³; 10 ppm equals 38 mg/m³; 100 ppm equals 380 mg/m³.

SECTION 12: ECOLOGICAL INFORMATION

Persistence and Degradability

Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

Potential to Bioaccumulation: Not expected because of the relatively high water solubility

Biodegradability: Estimated to be less than 40% degradation over a test period of more than 28 days.

SECTION 13: DISPOSAL INFORMATION

WASTE DISPOSAL:

Procedure: For disposal, dispose this material at a facility that complies with local, state, and federal regulations.

SECTION 14: TRANSPORTATION INFORMATION

DOT Hazard Description: Not Regulated

IMDG Hazard Description: Not Regulated

IDQ, Inc. Garland, Texas

Material Safety Data Sheet

Nov 19, 2010

GPM-7 Medium Viscosity Oil with ICE 32 for A/C Systems, 8 oz

SECTION 15: REGULATORY INFORMATION

EPA Regulation:

SARA SECTION 355/370, and 372: This product does not contain any chemicals subject to reporting requirements of SARA 313.

All components of this product are on the TSCA list.

State Regulations: This product meets requirements of Southern California AQMD Rule 443.1 and Similar Regulations California Proposition 65: This product contains the following chemical known to the State of California to cause cancer: None.

SECTION 16: OTHER INFORMATION

All information, recommendations, and suggestions made by IDQ, Inc. ("Company") appearing herein concerning our product are based upon tests and data believed to be reliable. However, because of the variable characteristics of analytical procedures and samples, and the inability to control its customers' uses of the information and recommendations, or the related products or materials, Company makes NO WARRANTY, EXPRESS OR IMPLIED as to the accuracy of the information or recommendations or that such are fit for any general or specific purpose, whatsoever. Company shall have NO LIABILITY arising from the use by its customers or any third parties of the information and recommendations, and it shall be each customer's sole responsibility to determine the suitability for its own use of any information or recommendations provided by Company.

MATERIAL SAFETY DATA SHEET

FP301 15 00

DATE OF PREPARATION Mar 25, 2016

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER
FP301
PRODUCT NAME
FINISH 1™ Etching Filler Chromate Free
MANUFACTURER'S NAME
ACME AUTOMOTIVE FINISHES
101 Prospect Avenue N.W.
Cleveland, OH 44115

Telephone Numbers and Websites

Cicphone numbers and Websites	
Regulatory Information	(216) 566-2902
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-0200
for Chemical Emergency ONLY (sp	oill, leak, fire, exposure, or
	accident)

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
2	108-68-3	Toluena		
		ACGIH TLV	20 PPM	22 mm
		OSHA PEL	100 ppm (Skin)	
		OSHA PEL	150 ppm (Skin) STEL	
1	100-41-4	Ethylbenzene		
		ACGIH TLV	20 PPM	7.1 mm
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
8	1330-20-7	Xylene		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
14	67-63-0	2-Propanol		
		ACGIH TLV	200 PPM	33 mm
		ACGIH TLV	400 PPM STEL	
		OSHA PEL	400 PPM	
4	78-83-1	2-Methyl-1-propanol		
		ÁCGÌH ŤLV	50 PPM	8.7 mm
		OSHA PEL	50 PPM	
6	111-76-2	2-Butoxyethanol		
		ACGIH TLV	20 PPM	0.88 mm
		OSHA PEL	25 PPM	
19	108-10-1	Methyl Isobutyl Ketor		
		ACGIH TLV	50 PPM	16 mm
		ACGIH TLV	75 PPM STEL	
		OSHA PEL	50 PPM	
	····	OSHA PEL	75 PPM STEL	······································
1	108-21-4	Isopropyl Acetate		
		ACGIH TLV	250 PPM	47.5 mm
		ACGIH TLV	310 PPM STEL	
		OSHA PEL	250 PPM	
		OSHA PEL	310 PPM STEL	
4	84-74-2	Dibutyl Phthalate		
		ACGIH TLV	5 MG/M3	
		OSHA PEL	5 MG/M3	
5	25068-38-6	Epoxy Polymer	84-8 A!!	
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
12	14807-96-6	Taic	0(0 B B)	
		ACGIH TLV	2 mg/m3 as Resp. Dust	
		OSHA PEL	2 mg/m3 as Resp. Dust	
6	13463-67-7	Titanium Dioxide	40	
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	
0.2	1333-86-4	Carbon Black ACGIH TLV	3.5 MG/M3	

SECTION 3 — HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE
INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.
EFFECTS OF OVEREXPOSURE
EYES: Inflation.
SKIN: Prolonged or repeated exposure may cause irritation.
INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to hazardous ingredients in Section 2 may cause adverse chronic effects to the following organs or systems:

• the liver
• the urinary system
• the hematopoletic (blood-forming) system
• the cardiovascular system

HMIS Codes
Health 2°
Flammability 3
Reactivity 0

Ĺ,

COVICAL	OCV.	DATA

TOXICOLOGY DATA					
CAS No.	Ingredient Name				
108-88-3	Toluene			•	
		LC50 RAT	4HR	4000 ppm	
		LD50 RAT		5000 mg/kg	
100-41-4	Elhylbenzene			-	
		LC50 RAT	4HR	Not Available	
		LD50 RAT		3500 mg/kg	
1330-20-7	Xylene				
		LC50 RAT	4HR	5000 ppm	
		LD50 RAT		4300 mg/kg	
67-63-0	2-Propanol				
	•	LC50 RAT	4HR	Not Available	
		LD50 RAT		5045 mg/kg	
78-83-1	2-Methyl-1-propanol				
	, , ,	LC50 RAT	4HR	Not Available	
		LO50 RAT		2460 mg/kg	
111-76-2	2-Butoxyethanol				
	-	LC50 RAT	4HR	Not Available	
		LD50 RAT		470 mg/kg	
108-10-1	Methyl Isobutyl Ketor	ne			
		LC50 RAT	4HR	Not Available	
		LD50 RAT		2080 mg/kg	
108-21-4	Isopropyl Acetate				
	, ,,	LC50 RAT	4HB	Not Available	
		LOSO RAT		3000 mg/kg	
84-74-2	Dibutyl Phthalate				
		LC50 RAT	4HR	Not Available	
		LD50 RAT		8000 mg/kg	
25068-38-6	Epoxy Polymer				
		LC50 RAT	4HR	Not Available	
		LD50 RAT		Not Available	
14807-96-6	Talc				
		LC50 RAT	4HFI	Not Available	
		LD50 RAT	•	Not Available	
13463-67-7	Titanium Dioxide				
	· · · · · · · · · · · · · · · · · · ·	LC50 RAT	4HR	Not Available	
		LD50 RAT		Not Available	
1333-86-4	Carbon Black	20001011			
1000:00:7	Carbon black	LC50 RAT	4HB	Not Available	
		LD50 RAT	41161	Not Available	
		LUSU DAT		HOLMARKING	

SECTION 12 — ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION No data available.

SECTION 13 — DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.
Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.
Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding poliution.

SECTION 14 — TRANSPORT INFORMATION

Multi-modal shipping descriptions are provided for Informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (ocean, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport.

US Ground (DOT)

5 Liters (1.3 Gallons) and Less may be Classed as LTD. QTY. (PAINT OR RELATED).

Larger Containers are Regulated as:

UN1263, PAINT, 3, PG II, (ERG#128)

DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities

Di-n-butyl phthalate 10 ib RQ

Methyl isobutyl ketone 5000 ib RQ

Xylenes (mixed isomers) 100 ib RQ

bu, Liners may be Shipped as (check reportable quantities);
RQ, UN1263, PAINT, 3, PG II, (XYLENES (MIXED ISOMERS), DI-N-BUTYL,
PHTHALATE), (ERG#128)
Canada (TDG)
UN1263, PAINT, 3, PG II, LIMITED QUANTITY, (ERG#128) IMO 5 Liters (1.3 Gallons) and Less may be Shipped as Limited Quantity. UN1263, PAINT, 3, PG II, (9 C c.c.), EmS F-E, S-E

5 Liters (1.3 Gallons) and Less may be Shipped as Limited Quantity. UN1263, PAINT, 3, PG II, (9 C c.c.), EmS F-E, <u>S-E</u>

UN1263, PAINT, 3, PG II

SECTION 15 — REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
108-88-3	Taluene	2	
100-41-4	Ethylbenzene	1	
1330-20-7	Xylene	8	
108-10-1	Methyl Isobutyl Ketone	19	
84-74-2	Dibutyl Phthalate	4	
	Zinc Compound	7	4.4
	Glycol Ethers	6	

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially after the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

the reproductive system
SIGNS AND SYMPTOMS OF OVEREXPOSURE
Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.
Redness and liching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

MALE PLAN AND THE SENSE OF THE PROSE

May cause allergic skin reaction in susceptible persons or skin sensitization.

For complete discussion of toxicology data refer to Section 11.

SECTION 4 — FIRST AID MEASURES

Flush eyes with large amounts of water for 15 minutes. Get medical attention. Wash affected area thoroughly with soap and water. If irritation persists or occurs later, get medical attention. Remove contaminated clothing and launder before re-use.

SKIN:

INHAL ATION: NHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet. INGESTION: Do not induce vomiting. Get medical attention immediately.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT

FLAMMABILITY CLASSIFICATION

48 °F PMCC EXTINGUISHING MEDIA

UEL

RED LABEL -- Flammable, Flash below 100 °F (38 °C)

Carbon Dioxide, Dry Chemical, Foam UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

apparent obtain measure attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autolgrition or explosion when exposed to extreme heat.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area. Remove with inert absorbent.

SECTION 7 — HANDLING AND STORAGE

STORAGE CATEGORY

DOL Storage Class IB PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Contents are FLAMMBLE. Keep away from heat, sparks, and open flame.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation. Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Avoid contact with sold and year and year was a way was hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly litted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NiOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive. PROTECTIVE GLOVES

1102 g/l

81 - 172 °C

Wear gloves which are recommended by glove supplier for protection against materials in Section 2. EYE PROTECTION

Wear safety spectacles with unperforated sideshields. OTHER PROTECTIVE EQUIPMENT

Use of barrier cream on exposed skin is recommended.

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT 9.20 lb/gat SPECIFIC GRAVITY 1.11

BOILING POINT MELTING POINT 178 - 343 °F Not Available

VOLATILE VOLUME 74% EVAPORATION RATE Slower than ether
VAPOR DENSITY Heavier than air

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

5.05 lb/gal 605 g/l Less Water and Federally Exempt Solvents

5.05 lb/gal 605 g/l Emitted VOC

SECTION 10 - STABILITY AND REACTIVITY

STABILITY — Stable CONDITIONS TO AVOID None known INCOMPATIBILITY HAZARDOUS DECOMPOSITION PRODUCTS By fire: Carbon Dioxide, Carbon Monoxide HAZARDOUS POLYMERIZATION Will not occur

SECTION 11 — TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

HRONIC HEALTH HAZARDS

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (28) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in lies. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 28 rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

as paint.*

Carbon Black is classified by iARC as possibly carcinogenic to humans (group 2B) based on experimental animal data, however, there is insufficient evidence in humans for its carcinogenicity.



Date

: 15/02/2015

Version

: 1

SAFETY DATA SHEET

Lucas Red "N" Tacky NLGI # 2 grease

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

Product name

: Lucas Red "N" Tacky NLGI # 2 grease

Product number

: 10005, 10027, 10028, 10029, 10574

Product description

: Not available.

Product type

: Solid.

Other means of

: Not available.

identification Only representative

: H2 Compliance.

Rubicon Building, CIT Campus, Bishopstown, Cork, Ireland.

T: +353 21 4868120,

Web page: www.h2compliance.com

1.2 Relevant identified uses of the substance or mixture and uses advised against

Engine oil.

1.3 Details of the supplier of the safety data sheet

Supplier's details

: Lucas Oil Products, Inc 302 North Sheridan Street Corona, California 92880-2067 Toll Free: (800) 342-2512 Tel: (951) 270-0154 Fax: (951) 270-1902 Website: www.LucasOil.com

e-mail address of person

responsible for this SDS

: Markn@lucasoil.com

1.4 Emergency telephone number

Telephone number

: (951) 493-1149 (951) 847-5949

Hours of operation

: 7:00A.M. to 5:00P.M. Monday thru Friday

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 453/2010 - United Kingdom (UK)



Lucas Red "N" Tacky NLGI # 2 grease

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Classification according to Directive 1999/45/EC [DPD]

The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Not classified.

See Section 16 for the full text of the R phrases or H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Signal word : No signal word.

Hazard statements : No known significant effects or critical hazards.

Precautionary statements

General : P103 - Read label before use.

P102 - Keep out of reach of children.

P101 - If medical advice is needed, have product container or label at hand.

Prevention : Not applicable.

Response : Not applicable.

Storage : Not applicable.

Disposal : Not applicable.

Risk phrases : This product is not classified according to EU legislation.

Safety phrases : Not applicable.

Supplemental label : Not applicable.

elements

Annex XVII - Restrictions : Not applicable.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and

articles

Special packaging requirements

Containers to be fitted with child-resistant

fastenings

: Not applicable.

Tactile warning of danger : Not applicable.

2.3 Other hazards

Other hazards which do not result in classification

: None known.





Lucas Red "N" Tacky NLGI # 2 grease

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

			Cla	ssification	
Product/ingredient name	Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
Phosphorodithioic acid, O,O- di-C1-14-alkyl esters, zinc salts	EC: 272-028-3 CAS: 68649-42-3	>=5 - <10	Xi; R41, R38 N; R51/53	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411	[1]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern

Occupational exposure limits, if available, are listed in Section 8.

See Section 16 for the full text of the R-phrases declared above.

See Section 16 for the full text of the H statements declared above.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact

- : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation
- occurs.
- Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 - Get medical attention if symptoms occur.
- Skin contact : Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- Ingestion : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards. Skin contact No known significant effects or critical hazards. Ingestion No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards. Skin contact : No known significant effects or critical hazards. : No known significant effects or critical hazards. Ingestion



Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 453/2010 - United Kingdom (UK)



Lucas Red "N" Tacky NLGI # 2 grease

SECTION 4: First aid measures

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Specific treatments

: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

media

: None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : No specific fire or explosion hazard.

Hazardous thermal decomposition products

: No specific data.

5.3 Advice for firefighters

Special protective actions for fire-fighters

: No special precaution is required.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

For emergency responders:

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also Section 8 for additional information on hygiene measures.

6.2 Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

Small spill

: Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.



Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 453/2010 - United Kingdom (UK)



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SECTION 6: Accidental release measures

Large spill

: Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections

See Section 1 for emergency contact information.
 See Section 8 for information on appropriate personal protective equipment.
 See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific end use(s)

Recommendations

: Not available.

Industrial sector specific

: Not available.

solutions

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker or exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures





Lucas Red "N" Tacky NLGI # 2 grease

SECTION 8: Exposure controls/personal protection

for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls

 Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state

: Solid. [Grease.]

Colour

: Red.

Odour

: Mild. Petroleum oil.

Odour threshold

: Not available.





Lucas Red "N" Tacky NLGI # 2 grease

SECTION 9: Physical and chemical properties

рН : Not applicable. Melting point/freezing point : Not available.

Initial boiling point and boiling

range

: Not available.

: Not available.

Flash point **Evaporation rate** : Not available. Flammability (solid, gas) : Not available. Upper/lower flammability or : Not available.

explosive limits

: Not available. Vapour pressure Vapour density : Not available.

Relative density : 0.9

Solubility(ies) : Negligible at 25°C

Solubility in water

Partition coefficient: n-octanol/ : Not available.

water

: Not available. Auto-ignition temperature **Decomposition temperature** : Not available.

: Kinematic (100°C (212°F)): 0.19 cm²/s (19 cSt) **Viscosity**

Explosive properties : Not available. Oxidising properties : Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

10.3 Possibility of : Under normal conditions of storage and use, hazardous reactions will not occur. hazardous reactions

10.4 Conditions to avoid : No specific data.

10.5 Incompatible materials : Reactive or incompatible with the following materials: Strong oxidizers.

10.6 Hazardous : Under normal conditions of storage and use, hazardous decomposition products decomposition products should not be produced.



Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 453/2010 - United Kingdom (UK)



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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

There is no data available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Phosphorodithioic acid, O,O-di- C1-14-alkyl esters, zinc salts	Eyes - Irritant	Rabbit	-	• Par Olles	7, 10, 10, 200, 10, 100

Sensitisation

There is no data available.

Carcinogenicity

There is no data available.

Specific target organ toxicity (single exposure)

There is no data available.

Specific target organ toxicity (repeated exposure)

There is no data available.

Aspiration hazard

There is no data available.

Information on the likely routes of exposure

: Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Eye contact
Inhalation
: No known significant effects or critical hazards.
Skin contact
: No known significant effects or critical hazards.
Ingestion
: No known significant effects or critical hazards.
: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate

: No known significant effects or critical hazards.

effects

Potential delayed effects : No known significant effects or critical hazards.

Long term exposure

Potential immediate: No known significant effects or critical hazards.

effects

Potential delayed effects : No known significant effects or critical hazards.

Potential chronic health effects

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 453/2010 - United Kingdom (UK)



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SECTION 11: Toxicological information

Mutagenicity: No known significant effects or critical hazards.Teratogenicity: No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Phosphorodithioic acid, O,O-di- C1-14-alkyl esters, zinc salts	Acute EC50 1 to 5 mg/L	Algae	96 hours
	Acute EC50 1 to 1.5 mg/L Chronic LC50 1 to 5 mg/L	Crustaceans Fish	48 hours 96 hours

12.2 Persistence and degradability

There is no data available.

12.3 Bioaccumulative potential

There is no data available.

12.4 Mobility in soil

Soil/water partition

: There is no data available.

coefficient (Koc)

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste

: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

Packaging



Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 453/2010 -**United Kingdom (UK)**



Lucas Red "N" Tacky NLGI # 2 grease

SECTION 13: Disposal considerations

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions

: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	/
14.3 Transport hazard class(es)	-	-	-	
14.4 Packing group	-	-	-	
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	

user

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.





Lucas Red "N" Tacky NLGI # 2 grease

SECTION 15: Regulatory information

Annex XVII - Restrictions

: Not applicable.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Other EU regulations

Europe inventory

: All components are listed or exempted.

Seveso II Directive

This product is not controlled under the Seveso II Directive.

International lists

National inventory

Australia

: All components are listed or exempted.

Canada

: All components are listed or exempted.

China

: All components are listed or exempted.

Japan

: Not determined.

Malaysia

: Not determined.

New Zealand

: All components are listed or exempted.

Philippines

: All components are listed or exempted.

Republic of Korea

: All components are listed or exempted.

Taiwan

: Not determined.

United States

: All components are listed or exempted.

15.2 Chemical Safety

Assessment

: This product contains substances for which Chemical Safety Assessments are still

required.

SECTION 16: Other information

Abbreviations and acronyms : ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration

RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classif	ication	Justification
Not classified.		
Full text of abbreviated H statements	: H315 H318 H411	Causes skin irritation. Causes serious eye damage. Toxic to aquatic life with long lasting effects.



Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 453/2010 - United Kingdom (UK)



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SECTION 16: Other information

Full text of classifications [CLP/GHS]

Aquatic Chronic 2, H411 Eye Dam. 1, H318 Skin Irrit. 2, H315

LONG-TERM AQUATIC HAZARD - Category 2
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
SKIN CORROSION/IRRITATION - Category 2

Full text of abbreviated R phrases

: R41- Risk of serious damage to eyes.

R38- Irritating to skin.

R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

History

Date of issue (dd/mm/yyyy) : 15/02/2015

Version : 1

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

SAFETY DATA SHEET

1. Identification

Product identifier Engine Brite Heavy Duty Engine Degreaser

Other means of identification

SDS number

EB1 EB1, EB1/6

Part No.

Tariff code

3814.00.5090

Recommended use

Engine Degreaser

Recommended restrictions

None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name

RSC Chemical Solutions

Address

600 Radiator Road

Indian Trail, NC 28079

United States

Telephone

Customer Service:

(704) 821-7643

Technical:

(704) 684-1811

Website

www.rscbrands.com

E-mail

sds@rscbrands.com

Emergency phone number

Emergency Telephone: Emergency Contact:

(303) 623-5716

RMPDC (877-740-5015)

2. Hazard(s) identification

Physical hazards

Flammable aerosols

Category 1

Health hazards

Acute toxicity, oral Category 4

Acute toxicity, inhalation Category 4 Skin corrosion/irritation Category 2

Serious eye damage/eye irritation

Category 2A Category 2

Specific target organ toxicity, single exposure

Specific target organ toxicity, repeated

Category 3 narcotic effects

exposure

Category 2

Aspiration hazard

Hazardous to the aquatic environment,

Category 1 Category 2

long-term hazard

Carcinogenicity

OSHA defined hazards

Environmental hazards

Not classified.

Label elements



Signal word

Danger

Hazard statement

Extremely flammable aerosol. Harmful if swallowed. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. Harmful if inhaled. May cause drowsiness or dizziness. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Response

If swallowed: Immediately call a poison center/doctor. If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Collect spillage.

Storage

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

95.31% of the mixture consists of component(s) of unknown acute oral toxicity. 2.09% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Petroleum Distillate Aliphatic		68476-34-6	60 - < 70
Kerosine (petroleum)		8008-20-6	20 - < 30
Petroleum naphtha		64742-94-5	3-<5
Carbon Dioxide		124-38-9	1-<3
Tert-butylbenzene		98-06-6	1-<3
NAPHTHALENE		91-20-3	< 1
Other components below reportable levels			5 - < 10

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact

Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists,

Ingestion

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important

symptoms/effects, acute and delayed

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General information

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media Alcohol resistant foam. Dry powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Fire fighting equipment/instructions

Specific methods

General fire hazards

Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Use standard firefighting procedures and consider the hazards of other involved materials, Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.

Extremely flammable aerosol.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Refer to attached safety data sheets and/or instructions for use. Keep combustibles (wood, paper, oil, etc.) away from spilled material. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Use water spray to reduce vapors or divert vapor cloud drift. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Level 3 Aerosol.

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in a well-ventilated place. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	
Carbon Dioxide (CAS 124-38-9)	PEL	9000 mg/m3	
		5000 ppm	
NAPHTHALENE (CAS 91-20-3)	PEL	50 mg/m3	
•		10 ppm	
Petroleum naphtha (CAS 64742-94-5)	PEL	400 mg/m3	

US.	OSHA	Table	Z-1 l	imits	for	Air	Contaminants	(29 CFR	1910.1000)
~~.	OO: 137	IUNIV	_ , ,	-11111160		, ,,,,		(~ V I I V	

Components	Туре	Value	
		100 ppm	
US. ACGIH Threshold Limit Value	S		
Components	Туре	Value	Form
Carbon Dioxide (CAS 124-38-9)	STEL	30000 ppm	
•	TWA	5000 ppm	
Kerosine (petroleum) (CAS 8008-20-6)	TWA	200 mg/m3	Non-aerosol.
NAPHTHALENE (CAS 91-20-3)	TWA	10 ppm	
Petroleum Distillate Aliphatic (CAS 68476-34-6)	TWA	100 mg/m3	Inhalable fraction and vapor.
Petroleum naphtha (CAS 64742-94-5)	TWA	200 mg/m3	Non-aerosol.
US. NIOSH: Pocket Guide to Chen	nical Hazards		
Components	Type	Value	
Carbon Dioxide (CAS 124-38-9)	STEL	54000 mg/m3	4000
		30000 ppm	
	TWA	9000 mg/m3	
		5000 ppm	
Kerosine (petroleum) (CAS 8008-20-6)	TWA	100 mg/m3	
NAPHTHÁLENE (CAS 91-20-3)	STEL	75 mg/m3	
-		15 ppm	
	TWA	50 mg/m3	

Biological limit values

No biological exposure limits noted for the ingredient(s).

Exposure guidelines

US ACGIH Threshold Limit Values: Skin designation

Kerosine (petroleum) (CAS 8008-20-6)

NAPHTHALENE (CAS 91-20-3)

Petroleum Distillate Aliphatic (CAS 68476-34-6)

Petroleum naphtha (CAS 64742-94-5)

Can be absorbed through the skin.

Can be absorbed through the skin.

Can be absorbed through the skin.

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection	wear safety glasses with side shields (or goggles)
Skin protection	
Hand protection	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.
Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.
Respiratory protection	Chemical respirator with organic vapor cartridge and full facepiece if threshold limits are exceeded.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Clear.

Physical state

Liquid.

Form

Aerosol.

Color

Red

Odor

Diesel Fuel odor

Odor threshold

Not available.

рH

Not available.

Melting point/freezing point

Not available.

Initial boiling point and boiling range

347 °F (175 °C) estimated

Flash point

Evaporation rate

136.0 °F (57.8 °C) Tag Closed Cup Not available.

Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits

(%)

Flammability limit - lower

0.7 % estimated

Flammability limit - upper

5 % estimated

Explosive limit - lower (%)

Not available.

Explosive limit - upper (%)

Not available.

Vapor pressure

0.64 hPa estimated

Vapor density

Not available.

Relative density

0.834 g/cm3

Solubility(ies)

Solubility (water)

Auto-ignition temperature

0.1

Partition coefficient

Not available.

(n-octanol/water)

500 °F (260 °C) estimated

Decomposition temperature

Not available. Not available.

Viscosity Other information

None known. 7.01 lbs/gal

Density

Not explosive.

Flame extension

> 37 in

Flammability (flash back)

Heat of combustion (NFPA

Explosive properties

No Combustible II estimated

Flammability class

39.8 kJ/g

30B)

Oxidizing properties

Not oxidizing.

Percent volatile

0.98 % estimated

Specific gravity

0.84

VOC (Weight %)

14.69 % estimated

10. Stability and reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid

Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition

No hazardous decomposition products are known.

products

11. Toxicological information

Information on likely routes of exposure

Inhalation Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure by

inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting.

Skin contact

Causes skin irritation.

Eye contact

Causes serious eye irritation.

Ingestion

Harmful if swallowed. Droplets of the product aspirated into the lungs through ingestion or

vomiting may cause a serious chemical pneumonia.

Symptoms related to the physical, chemical and toxicological characteristics

Headache. May cause drowsiness and dizziness. Nausea, vomiting. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity

May be fatal if swallowed and enters airways. Harmful if inhaled. Narcotic effects.

Components Species Test Results

NAPHTHALENE (CAS 91-20-3)

<u>Acute</u>

Dermal

LD50

Rabbit

> 2 g/kg

Rat

> 20 g/kg

Oral

LD50

Guinea pig

1200 mg/kg

Rat

490 mg/kg

Petroleum naphtha (CAS 64742-94-5)

Acute

Inhalation

LC50

Rat

61 mg/l, 4 Hours

Oral

LD50

Rat

> 25 ml/kg

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization

Not a respiratory sensitizer.

Skin sensitization

This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

Suspected of causing cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

NAPHTHALENE (CAS 91-20-3)

2B Possibly carcinogenic to humans.

Petroleum Distillate Aliphatic (CAS 68476-34-6)

3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

NAPHTHALENE (CAS 91-20-3)

Reasonably Anticipated to be a Human Carcinogen.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

Specific target organ toxicity -

May cause drowsiness and dizziness.

single exposure

May cause damage to organs through prolonged or repeated exposure.

repeated exposure

^{*} Estimates for product may be based on additional component data not shown.

Aspiration hazard

May be fatal if swallowed and enters airways.

Chronic effects

May cause damage to organs through prolonged or repeated exposure. Prolonged inhalation may

be harmful. Prolonged exposure may cause chronic effects.

12. Ecological information

Ecotoxicity

Toxic to aquatic life with long lasting effects.

Components		Species	Test Results
NAPHTHALENE (CAS	91-20-3)		***************************************
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	1.09 - 3.4 mg/l, 48 hours
Fish	LC50	Pink salmon (Oncorhynchus gorbuscha)	1.11 - 1.68 mg/l, 96 hours
Petroleum naphtha (C	AS 64742-94-5)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia pulex)	2.7 - 5.1 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	8.8 mg/l, 96 hours
			8.8 mg/l, 96 hours

^{*} Estimates for product may be based on additional component data not shown.

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

NAPHTHALENE Tert-butylbenzene

3.3 4.11

Mobility in soil

No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

14. Transport information

DOT

UN number

Not available.

UN proper shipping name

Consumer Commodity

Transport hazard class(es)

Class

ORM-D

Subsidiary risk

Packing group

Not applicable.

Environmental hazards

Marine pollutant

Yes

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions Packaging exceptions T75, TP5

306

Packaging non bulk

304

Packaging bulk

314, 315

IATA

UN number

UN1950

UN proper shipping name

Aerosols, flammable

Transport hazard class(es)

Class

2.1

Subsidiary risk

Packing group

Not applicable.

Environmental hazards ERG Code

Yes 10L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Allowed.

Passenger and cargo aircraft

Cargo aircraft only

Allowed.

IMDG

UN number

UN1950

UN proper shipping name Transport hazard class(es)

AEROSOLS

Class

2

Subsidiary risk

Packing group

Not applicable.

Environmental hazards

Marine pollutant

Yes

F-D, S-U

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Not established.

Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code



Marine pollutant



General information

IMDG Regulated Marine Pollutant. DOT Regulated Marine Pollutant.

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

NAPHTHALENE (CAS 91-20-3)

Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No

chemical

SARA 313 (TRI reporting)

Chemical nameCAS number% by wt.NAPHTHALENE91-20-3< 1</td>

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

NAPHTHALENE (CAS 91-20-3)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.

(a))

Kerosine (petroleum) (CAS 8008-20-6)

NAPHTHALENE (CAS 91-20-3)

Petroleum Distillate Aliphatic (CAS 68476-34-6)

Petroleum naphtha (CAS 64742-94-5)

Tert-butylbenzene (CAS 98-06-6)

US. Massachusetts RTK - Substance List

Carbon Dioxide (CAS 124-38-9)

Kerosine (petroleum) (CAS 8008-20-6)

NAPHTHALENE (CAS 91-20-3)

Tert-butylbenzene (CAS 98-06-6)

US. New Jersey Worker and Community Right-to-Know Act

Carbon Dioxide (CAS 124-38-9)

Kerosine (petroleum) (CAS 8008-20-6)

NAPHTHALENE (CAS 91-20-3)

Petroleum Distillate Aliphatic (CAS 68476-34-6)

Petroleum naphtha (CAS 64742-94-5)

Tert-butylbenzene (CAS 98-06-6)

US. Pennsylvania Worker and Community Right-to-Know Law

Carbon Dioxide (CAS 124-38-9)

Kerosine (petroleum) (CAS 8008-20-6)

NAPHTHALENE (CAS 91-20-3)

Petroleum Distillate Aliphatic (CAS 68476-34-6)

Tert-butylbenzene (CAS 98-06-6)

US. Rhode Island RTK

NAPHTHALENE (CAS 91-20-3)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

Material name: Engine Brite Heavy Duty Engine Degreaser
EB1, EB1/6 Version #: 05 Revision date: 04-19-2016 Issue date: 05-20-2015

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

NAPHTHALENE (CAS 91-20-3)

Listed: April 19, 2002

Volatile organic compounds (VOC) regulations

FΡΔ

Consumer products (40 CFR 59, Subpt. C) Compliant

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date

05-20-2015

Revision date

04-19-2016

Version #

05

HMIS® ratings

Health: 2*

Flammability: 2

Physical hazard: 0

NFPA ratings

Health: 2 Flammability: 2

Instability: 0

NFPA ratings



Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Revision Information

Hazard(s) identification: Storage

Fire-fighting measures: Unsuitable extinguishing media Physical & Chemical Properties: Multiple Properties

Transport information: General information

GHS: Classification

Initial Preparation Date:

10/27/11

Last Revision Date:

3/5/12

Effective Date:

3/5/12

MATERIAL SAFETY DATA SHEET

PRODUCT IDENTITY: ADVANCE® POWER STEERING FLUID

PRODUCT CODE: ELPS007 (1 QUART), ELPS012Z (12 OUNCE)

1. CHEMICAL PRODUCT & COMPANY INFORMATION

OLD WORLD INDUSTRIES, LLC 4065 COMMERCIAL AVENUE NORTHBROOK, ILLINOIS 60062

PHONE: 847-559-2000

EMERGENCY PHONE: 1-800-424-9300 / 202-483-7616 (CHEMTREC)

2. COMPOSITION / INFORMATION ON INGREDIENTS

Material	CAS Number	% by Weight	OSHA PEL & WA (mist)	TLV (ACGIH) (mist)	ACGIH STEL (mist)	IDLH
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	30-60	5 mg/m ³	5 mg/m³	10 mg/m ³	N/A

Highly refined mineral oils, additives and dyes. The highly refined mineral oil contains <3% (w/w) DMSO-extract, according to IP346.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Appearance and Odor: Pale Amber. Liquid. Slight hydrocarbon.
Health Hazards: Not classified as dangerous for supply or conveyance.
Safety Hazards: Not classified as flammable but will burn.
Environmental Hazards: Not classified as dangerous for the environment.

HAZARD RATING SYSTEM

NFPA: HEALTH: 0 FLAMMABILITY: 1 REACTIVITY: 0

KEY:

0 - Minimal

1 - Slight

2 - Moderate

3 – Serious

4 - Severe

POTENTIAL HEALTH EFFECTS

Not expected to be a health hazard when used under normal conditions.

4. FIRST AID MEASURES

Ensure physician has access to this MSDS.

Routes of Entry: Inhalation, Skin, Eye, Ingestion

Inhalation: Under normal conditions of use, this is not expected to be a primary route of exposure.

Skin Contact: Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin,

resulting in disorders such as oil acne / folliculitis.

Eye Contact: May cause slight irritation to eyes.

Ingestion: Low toxicity if swallowed.

Other Information: Used oil may contain harmful impurities.

Signs and Symptoms of Exposure: Oil acne / folliculitis signs and symptoms may include formation of black pustules and spots on the skin of exposed areas. Ingestion may result in nausea, vomiting and/or diarrhea.

Aggravated Medical Condition: Pre-existing medical conditions of the following organ(s) or organ system(s) may be aggravated by exposure to this material: skin.

Additional Information: Under normal conditions of use or in a foreseeable emergency, this product does not meet the definition of a hazardous chemical when evaluated according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TREATMENT

Eyes: Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.

Skin: Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention.

Inhalation: No treatment necessary under normal conditions of use. If symptoms persist, obtain medical advice.

Ingestion: In general, no treatment is necessary unless large quantities are swallowed; however, get medical advice.

Notes to Physician: Treat symptomatically.

5. FIRE FIGHTING MEASURES

FIRE & EXPLOSION HAZARD DATA

Flammable Properties: Combustible at elevated temperatures.

Flash Point:

174° C / 345° F

Method Used:

Cleveland Open Cup

Flammability Limits - % of vapor concentration at which product can ignite in presence of spark.

LEL:

1% by volume (typical, based on mineral oil)

UEL:

10% by volume (typical, based on mineral oil)

Auto-ignition Temperature: > 320° C / 608° F

Hazardous Combustion Products: Hazardous combustion products may include: a complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds.

Extinguishing Media: Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable Extinguishing Media: Do not use water in a jet.

Fire Fighting Instructions: Clear fire area of all non-emergency personnel.

Protective Equipment For Fire Fighters: Proper protective equipment, including breathing apparatus, must be worn when approaching a fire in a confined space.

6. ACCIDENTAL RELEASE MEASURES

Avoid contact with spilled or released material. For guidance on selection of personal protective equipment, see Chapter 8 of this Material Safety Data Sheet. See Chapter 13 for information on disposal. Observe all relevant local and international regulations.

Protect People: Avoid contact with skin and eyes.

Protect the Environment: Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth or other appropriate barriers.

Cleanup: Slippery when spilt. Avoid accidents; clean up immediately. Prevent from spreading by making a barrier with sand, earth or other containment material. Reclaim liquid directly or in an absorbent. Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly.

Additional Advice: Local authorities should be advised if significant spillages cannot be contained.

7. HANDLING AND STORAGE

General Precautions: Use local exhaust ventilation if there is risk of inhalation of vapors, mists or aerosols. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.

Handling: Avoid prolonged or repeated contact with skin. Avoid inhaling vapor and/or mists. When handling product in drums, safety footwear should be worn and proper handling equipment should be used.

Storage: Keep container tightly closed and in a cool, well-ventilated place. Use properly labeled and closeable containers. Storage temperature: 0° - 50° C / 32° - 122° F.

Recommended Materials: For containers or container linings, use mild steel or high density polyethylene.

Unsuitable Materials: PVC.

Additional Information: Polyethylene containers should not be exposed to high temperatures because of possible risk of distortion.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS

Distillates (petroleum) ACGIH TWA (mist) 5 mg/m³ hydrotreated light ACGIH STEL (mist) 10 mg/m³ Perhapsian CSHA 71 PER 500 mm 2 2 000 mg/m³	Component	Source	Туре	PPM	Exposure Limits	Skin Form
OSHA Z1 PEL 500 ppm 2,000 mg/m ³ OSHA Z1A TWA 400 ppm 1,600 mg/m ³	·1 ,	ACGIH OSHA Z1	STEL (mist) PEL	500 ppm	5 mg/m³ 10 mg/m³ 2,000 mg/m³	

Exposure Controls: The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: adequate ventilation to control airborne concentrations. Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.

Respiratory Protection: No respiratory protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for combined particulate/organic gases and vapors [boiling point > 65° C (149° F)].

Skin Protection: Where hand contact with the product may occur, the use of gloves approved to relevant standards (e.g. Europe: EN374, U.S.: F739) made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove are dependent on usage, e.g., frequency

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Issue Date: 20-Oct-2012

Revision Date: 23-Jan-2015

Version 1

1. IDENTIFICATION

Product Identifier

Product Name

CARQUEST Power Steering Fluid

Other means of identification

SDS#

CQ-001

Synonyms

N/A

Recommended use of the chemical and restrictions on use

Recommended Use

Power Steering Fluid.

Details of the supplier of the safety data sheet

Supplier Address Warren Oil Company 915 E. Jefferson Ave.

West Memphis, AR 72301

Emergency Telephone Number

Company Phone Number

1-870-400-3020

Emergency Telephone (24 hr)

CHEMTREC 1-800-424-9300 (North America) 1-703-527-3887 (International)

2. HAZARDS IDENTIFICATION

Appearance Amber liquid

Physical State Liquid at room temperature

Odor Petroleum

Classification

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms

N/A

Chemical Name	CAS No	Weight-%
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	90-100

^{**}If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.**

4. FIRST-AID MEASURES

Revision Date: 23-Jan-2015

First Aid Measures

Eye Contact IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open.

Seek medical attention.

Skin Contact No treatment is necessary under ordinary circumstances. Remove contaminated clothing.

> Wash contaminated area thoroughly with soap and water. If redness or irritation occurs and persists, seek medical attention. WARNING: Oil injected into the skin from high pressure leaking hydraulic systems can cause severe damage. Most damage occurs during the first few hours. Seek medical attention immediately. Surgical removal of oil may be necessary.

Remove to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. If Inhalation

breathing is difficult give oxygen. Get medical attention.

If swallowed, DO NOT induce vomiting because of danger of aspirating liquid into lungs. Ingestion

Seek medical attention.

Most important symptoms and effects

Symptoms This product is irritating to the eyes. This product may cause irritation to the skin. Prolonged

and/or repeated skin contact with this product may cause irritation/dermatitis. Inhalation of oil mists or fumes can cause irritation of the nose, throat and upper respiratory tract. Repeated and prolonged overexposure to oil mists may result in droplet deposition, oil granuloma formation, inflammation and increased incidence of infection. If this product is heated over 70 C (155 F) in the presence of water, hydrogen sulfide may be released. Hydrogen sulfide is irritating to the eyes and respiratory system. Continued overexposure may cause respiratory collapse, coma and death without necessarily any warning odor

being sensed.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Dry chemical, foam, carbon dioxide, water fog.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Direct water spray or foam may cause frothing and spattering.

Hazardous Combustion Products Upon decomposition this product may yield oxides of boron, calcium, magnesium, phosphorous, zinc, sulfur including hydrogen sulfide and nitrogen as well as carbon monoxide, carbon dioxide and/or other low molecular weight hydrocarbons.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Use water to cool fire-exposed containers and to protect personnel.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions

Persons not wearing protective equipment should be excluded from area of spill until cleanup has been completed. Eliminate all sources of ignition or flammables that may come into contact with a spill of this material. Surfaces may become slippery after spillage. Wear appropriate protective equipment and clothing during clean-up. Do not allow the spilled

Revision Date: 23-Jan-2015

product to enter public drainage systems or open water courses.

Environmental Precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for Containment Stop the flow of material, if this is without risk.

Methods for Clean-Up Absorb with non-flammable suitable absorbent such as sand or earth. Scoop up used

absorbent into drums or other appropriate container.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Avoid getting this material into contact with your eyes. Avoid prolonged or repeated skin

contact with this material. Avoid the generation of oil mists. Wash thoroughly after handling.

Use this product with adequate ventilation.

Conditions for safe storage, including any incompatibilities

Storage Conditions Do not store near heat, sparks, open flame or strong oxidizing agents. Do not store this

material in open or unlabeled containers. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of

ignition; they may explode.

Incompatible Materials This product may react with strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies

Appropriate engineering controls

spaces. If product is heated above 70 C (155 F) in the presence of water, hydrogen sulfide vapors may be released. Ventilation should be sufficient to keep hydrogen sulfide levels

below recommended exposure limits. Eye wash fountains are recommended.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear safety glasses. Wear chemical goggles or face shield if splash or mist occurs.

unavoidable.

Respiratory Protection If mist is generated (heating, spraying) and engineering controls are not sufficient, wear

approved organic vapor respirator suitable for oil mist.

General Hygiene Considerations Use good hygiene when handling petroleum product. Launder contaminated clothing before reuse. Excessive misting may cause slippery floors - wear appropriate footwear.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State

Liquid at room temperature

Appearance

Amber liquid

Odor

Petroleum

Color

Amber

Odor Threshold

Remarks • Method

Cleveland Open Cup

Not determined

Revision Date: 23-Jan-2015

Property pН

Values

Not available Not applicable

Boiling Point/Boiling Range Flash Point

Not available 204 °C / 400 °F

Evaporation Rate

Not determined

Flammability (Solid, Gas)

Melting Point/Freezing Point

Liquid-Not applicable

Upper Flammability Limits Lower Flammability Limit Vapor Pressure

Not available Not available Not available

Vapor Density

Not available

Specific Gravity

0.86

Negligible

at 15.6°C (60°F)

Water Solubility Solubility in other solvents

Explosive Properties

Oxidizing Properties

Partition Coefficient Auto-ignition Temperature Decomposition Temperature Kinematic Viscosity Dynamic Viscosity

Not determined Not determined Not available Not determined Not available Not available Not determined Not determined

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization

Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to Avoid

Avoid formation of mists.

Incompatible Materials

This product may react with strong oxidizing agents.

Hazardous Decomposition Products

Decomposition of this product may yield oxides of boron, calcium, magnesium, nitrogen, phosphorus, sulfur including hydrogen sulfide and zinc as well as carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact

Avoid contact with eyes.

Skin Contact

Avoid contact with skin.

Inhalation

Do not inhale.

Ingestion

Do not ingest.

Component Information

Information on physical, chemical and toxicological effects

Symptoms

Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity

This product does not contain any carcinogens or potential carcinogens as listed by OSHA,

Revision Date: 23-Jan-2015

IARC or NTP.

Numerical measures of toxicity

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Petroleum distillates,		5000: 96 h Oncorhynchus		1000: 48 h Daphnia magna
hydrotreated heavy paraffinic		mykiss mg/L LČ50		mg/L EC50
64742-54-7	100			

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Not determined

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

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Waste Treatment Methods

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances.

DOT Not regulated

IATA Not regulated

IMDG Not regulated

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Petroleum distillates,	Present	Х		Present		Present	Х	Present	Х	X
hydrotreated heavy paraffinic										

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

SARA 311/312 Hazard Categories

Acute Health Hazard No
Chronic Health Hazard No
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Revision Date: 23-Jan-2015

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

16. OTHER INFORMATION

NFPAHealth HazardsFlammabilityInstabilitySpecial Hazards010Not determinedHMISHealth HazardsFlammabilityPhysical HazardsPersonal Protection110Not determined

Issue Date: Revision Date: 20-Oct-2012 23-Jan-2015

Revision Note: 25-3aii-2018
New format

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

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old Eagle Alumaseal Radiator Sealer

Trico Products

Chemwatch: 4780-49 Version No: 2.1.1.1 Safety Data Sheet according to WHS and ADG requirements

Chemwatch Hazard Alert Code: 2

Issue Date: 01/01/2013 Print Date: 01/08/2014 Initial Date: Not Available S.GHS.AUS.EN

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product name	Gold Eagle Alumaseal Radiator Sealer	
Chemical Name	organic vegetable mealy.	
Synonyms	Dispenser of 24 x 20g tubes (PN: ASD), Pack Size:, Retail Carded 20g Tube (PN: ASBP)	
Proper shipping name	Not Applicable	
Chemical formula	Not Applicable	
Other means of identification	Not Available	
CAS number	Not Applicable	

Details of the manufacturer/importer

	Registered company name	Trico Products	Gold Eagle	
J	Address	Unit 1, 80 Fairbank Road Clayton 3169 VIC Australia	4400 South Kildare Avenue Chicago 60632 IL United States	E
+6	Telephone	+61 3 9271 3288	+1 312 376 4400	- A - A
	Fax	+61 3 9271 3290	Not Available	2
	Website	http://www.tricoproducts.com	Not Available	
	Email	sales@tricoproducts.com.au	marketing@goldeagle.com	

Emergency telephone number

Association / Organisation	Not Available	Not Available	
Emergency telephone numbers	+61 3 9271 3288	+1 800 535 5053	
Other emergency telephone numbers	+61 3 9271 3288	+1 800 535 5053	% %:

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the Model WHS Regulations and the ADG Code.

CHEMWATCH HAZARD RATINGS

	Min	Max	
Flammability	0		
Toxicity	2		0 = Minimum
Body Contact	2	1	1 = Low
Reactivity	0		2 = Moderate 3 = High
ronic	0		4 = Extreme

Poisons Schedule	Not Applicable
GHS Classification [1]	Acute Toxicity (Oral) Category 4, Skin Corrosion/Irritation Category 2
	1 Classified by Chemwatch: 2 Classification drawn from HSIS: 2 Classification drawn from EC Directive

1. Classified by Chemwatch; 2. Classification drawn from HSIS ; 3. Classification drawn from EC Directive Legend: 1272/2008 - Annex VI

Issue Date: 01/01/2013 Print Date: 01/08/2014

Label elements

GHS label elements



SIGNAL WORD	WARNING

Hazard statement(s)

H302	Harmful if swallowed	
H315	Causes skin irritation	

Precautionary statement(s): Prevention

P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement(s): Response

P321 Specific treatment (see advice on this label).	
P301+P3	IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.
P302+P352 IF ON SKIN: Wash with plenty of water and soap	
P3	Rinse mouth.

Precautionary statement(s): Storage

Not Applicable

Precautionary statement(s): Disposal

	P501	Dispose of contents/container to authorised chemical landfill or if organic to high temperature incineration
--	------	--

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
Not Available	100	organic vegetable mealy.

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Eye Contact	If this product comes in contact with the eyes: Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention without delay; if pain persists or recurs seek medical attention.
	 Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	 If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
antonii DE todž tiek	 IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY. For advice, contact a Poisons Information Centre or a doctor. Urgent hospital treatment is likely to be needed.

Issue Date: 01/01/2013

Gold Eagle Alumaseal Radiator Sealer

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- his/her care and a copy of the MSDS should be provided. Further action will be the responsibility of the medical specialist.
- If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the MSDS.

Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise:

INDUCE vomiting with fingers down the back of the throat, ONLY IF CONSCIOUS. Lean patient forward or
place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.

NOTE: Wear a protective glove when inducing vomiting by mechanical means.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

- There is no restriction on the type of extinguisher which may be used.
- · Use extinguishing media suitable for surrounding area.

Special hazards arising from the substrate or mixture

Fire Incompatibility None known.

dvice for firefighters

Fire Fighting

- · Alert Fire Brigade and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves in the event of a fire.
- Prevent, by any means available, spillage from entering drains or water courses.
- · Use fire fighting procedures suitable for surrounding area.

Fire/Explosion Hazard

- Non combustible.
- Not considered a significant fire risk, however containers may burn.

May emit poisonous fumes.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Minor Spills

- Remove all ignition sources.
- · Clean up all spills immediately.
- Avoid contact with skin and eyes.
- Control personal contact with the substance, by using protective equipment.

Major Spills

Moderate hazard.

- · CAUTION: Advise personnel in area.
- · Alert Emergency Services and tell them location and nature of hazard.
- · Control personal contact by wearing protective clothing.

Personal Protective Equipment advice is contained in Section 8 of the MSDS.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Safe handling

- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- Prevent concentration in hollows and sumps.

Other information

- Store in original containers.Keep containers securely sealed.
- . Store in a cool dry area protected from environmental extremes

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Conditions for safe storage, including any incompatibilities

Suitable container

- Polyethylene or polypropylene container.
- · Check all containers are clearly labelled and free from leaks.

Storage incompatibility

None known

PACKAGE MATERIAL INCOMPATIBILITIES

Not Available

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Not Available

EMERGENCY LIMITS

Ingredient	TEEL-0	TEEL-1	TEEL-2	TEEL-3
Gold Eagle Alumaseal Radiator Sealer	Not Available	Not Available	Not Available	Not Available
Ingredient	Original IDLH		Revised IDLH	
organic vegetable mealy.	Not Available		Not Available	

Exposure controls

Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

Personal protection











Safety glasses with side shields. Chemical goggles.

Eye and face protection

Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A
written policy document, describing the wearing of lenses or restrictions on use, should be created for each
workplace or task.

Skin protection

See Hand protection below

Hands/feet protection

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.

Suitability and durability of glove type is dependent on usage.

Body protection

See Other protection below

Other protection

- Overalls.
- P.V.C. apron.Barrier cream.
- Thermal hazards
- Not Available

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The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

Gold Eagle Alumaseal Radiator Sealer Not Available

Material	CPI
----------	-----

^{*} CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

up to 10 x ES	P1 Air-line*	-	PAPR-P1
up to 50 x ES	Air-line**	P2	PAPR-P2
up to 100 x ES		P3	
		Air-line*	-
100+ x ES		Air-line**	PAPR-P3

* - Negative pressure demand ** - Continuous flow
A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid
gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN),
E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3),
Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low
boiling point organic compounds(below 65 degC)

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Tan coloured powder; partly	soluble in water.	
Physical state	Divided Solid	Relative density (Water = 1)	1.0
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	Not Applicable	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Applicable
nitial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Applicable	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Applicable
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Applicable
Vapour pressure (kPa)	Not Applicable	Gas group	Not Available
Solubility in water (g/L)	Partly Miscible	pH as a solution(1%)	Not Applicable
Vapour density (Air = 1)	Not Applicable	VOC g/L	Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7			
Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur. 		, 7 P	7 33 4
Possibility of hazardous reactions	See section 7	3, 18		9-2
Conditions to avoid	See section 7			g green
Incompatible materials	See section 7			34-9
Hazardous decomposition products	See section 5	e 1,4°		117

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Inhaled SUBJECT SERVICE SUBJECT SERVIC	There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis, may incur further disability if excessive concentrations of particulate are inhaled. If prior damage to the circulatory or nervous systems has occurred or if kidney damage has been sustained, proper screenings should be conducted on individuals who may be exposed to further risk if handling and use of the material result in excessive exposures.		
Ingestion	Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual.		
HEART PROTOCOLOGIC TO A CHECK THE COLOGIC TO A CHECK THE C	This material can cause inflammation of the skin on contact in some persons. Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.		
Eye	There is some evidence to suggest that this material can cause eye irritation and damage in some persons.		
Chronic		h dust concentrations may cause changes in lung function i.e. pneumoconiosis; caused nicron penetrating and remaining in the lung.	
Gold Eagle Alumaseal Radiator Sealer	TOXICITY Not Available	IRRITATION Not Available	

Not available. Refer to individual constituents.

Acute Toxicity	*	Carcinogenicity	0
Skin Irritation/Corrosion	~	Reproductivity	0
Serious Eye Damage/Irritation	0	STOT - Single Exposure	0
Respiratory or Skin sensitisation	0	STOT - Repeated Exposure	0
Mutagenicity	0	Aspiration Hazard	0

- Legend: ✓ Data required to make classification available
 - 🗙 Data available but does not fill the criteria for classification
 - Data Not Available to make classification

CMR STATUS

Not Applicable

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
Not Available	Not Available	Not Available

Bioaccumulative potential

Ingredient	Bioaccumulation	
Not Available	Not Available	

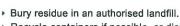
Mobility in soil

Ingredient	Mobility
Not Available	Not Available

SECTION 13 DISPOSAL CONSIDERATIONS

Issue Date: 01/01/2013

Print Date: 01/08/2014



· Recycle containers if possible, or dispose of in an authorised landfill.

SECTION 14 TRANSPORT INFORMATION

Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture Not Applicable

SECTION 16 OTHER INFORMATION

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at:

www.chemwatch.net/references

The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

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ARCAL CHEMICALS, INC.

SAFETY DATA SHEET Weld-O

Revised July 8, 2015

1. IDENTIFICATION OF THE PRODUCT AND MANUFACTURER Weld-O

Arcal Chemicals, Inc. 223 Westhampton Avenue Capitol Heights, MD 20743 Tele:301-336-9300 Fax: 301-336-6597

Emergency: Chemtrec 800-424-9300

2. HAZARDS IDENTIFICATION







WARNING

Corrosive and toxic.

If contaminated clothing is allowed to remain in contact with skin for many minutes or hours, serious damage may be caused by calcium fluoride precipitation in blood vessel capillaries and gangrene may result.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Hazardous Component	CAS #	Conc.	OSHA PEL	ACGIH TWA	
Hydrofluoric Acid	7664-39-3	<5 %	3 ppm	3 ppm	
Nitric Acid	7697-37-2	<1 %	2 ppm	2 ppm	
Diacetone Alcohol	123-42-2	<5 %	50 ppm	50 ppm	

4. FIRST AID MEASURES

Eye contact: Flush with clean clear water for 15 minutes or until irritation subsides. If irritation persists, seek medical advice.

Skin contact: Remove any contaminated clothing and flush with plenty of cool water. If <u>0.13%</u> benzalkonium chloride solution or 2.5% calcium gluconate gel is available, the water rinse may be limited to 5 minutes, with soaks of gel applied as soon as the rinsing is stopped.

Inhalation: If overcome from inhalation, remove subject from exposure and seek medical attention.

Ingestion: Have the subject drink large amounts of water as quickly as possible to dilute the acid. Do not induce vomiting. Do not give emetics or baking soda.

5. FIRE-FIGHTING MEASURES

ARCAL CHEMICALS, INC.

SAFETY DATA SHEET Weld-O

Revised July 8, 2015

NFPA FIRE HAZARDS:

HEALTH

FLAMMABILITY

REACTIVITY

4 (serious)

0 (insignificant)

2 (moderate)

Weld-O is over 80% water and unlikely to burn. (A small amount of surfactant will produce carbon oxides if burned.) If Weld-O is heated by nearby fire or heat, vapors of hydrofluoric acid will be produced and should be avoided. Granulated limestone (agricultural lime) may be used to neutralize acid runoff from containers which are punctured or overfilled with water spray.

6. ACCIDENTAL RELEASE MEASURES

In case Weld-O is spilled, treat the area with an alkaline material like agricultural lime, carefully scoop up the result and dispose in a plastic container with hazardous waste. Lime will precipitate the fluoride ion and neutralize acid. Sodium bicarbonate may also be used but produces a soluble fluoride which is toxic and is more difficult to dispose.

7. HANDLING AND STORAGE

Store Weld-O in a cool dry place where moisture will not collect on containers and where heat from equipment or the sun will not expose the product to temperature extremes.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Where ventilation is insufficient to insure low personal exposure, see Section 3 for Permissible Exposure Limit (PEL) and Time Weighted Average (TWA) and use appropriate monitoring equipment. Use of Weld-O in confined space requires breathing apparatus to prevent inhalation of any mist thrown off by the foam which develops during the cleaning process. Splash-proof safety goggles and chemically resistant gloves (without tears, pinholes or other signs of wear) are highly recommended to protect personnel. A waterproof apron protects against splashes.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Pink liquid, can foam if shaken **Odor:** Acidic - caution; avoid breathing vapors

Density: 8.4 pounds per gallon

Boiling point: 212 F

Volatile Organic Content: (VOC): <50 g/L **Solubility in water:** Completely soluble **Flash point:** >160 F estimated; non-burnable

pH <1

10. STABILITY AND REACTIVITY

Weld-O is not subject to polymerization. Avoid inadvertent contact with metals, and with any

ARCAL CHEMICALS, INC.

SAFETY DATA SHEET Weld-O

Revised July 8, 2015

oxidizable material which could generate foam. The major hazard is the corrosive action of hydrogen fluoride, so store Weld-O away from materials which could be affected by exposure to corrosive vapors.

11. TOXICOLOGICAL INFORMATION

The primary irritant effect is on the skin (including the eye), especially from prolonged contact. Other ingredients are diluted and present minimal hazard. The complete product has not been tested.

12. ECOLOGICAL INFORMATION

Do not allow liquid product to reach ground water, water course or sewer.

13. DISPOSAL CONSIDERATIONS

Waste product is hazardous (US EPA: due to fluoride and acidity). Do not dispose with residential garbage or allow product to reach ground water or sewer.

14. TRANSPORT INFORMATION

ID No. UN 1790 Proper Shipping Name

Hazardous Class

Packing Group

Hydrofluoric Acid Solution <5%

8, (6.1)

II

15. REGULATORY INFORMATION

TSCA: All ingredients are listed.

16: OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

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			No.
*		·	
			, man



The Armor All/STP Products Company

44 Old Ridgebury Road Suite 300 Danbury, CT 06810 Tel. 1-203-205-2900

1. Product And Company Identification

Product Name:

ARMOR ALL® Ultra Shine Wash & Wax

Responsible Party:

The Armor All/STP Products Company

44 Old Ridgebury Road

Suite 300

Danbury, CT 06810

Information Phone Number: +1 203-205-2900

Emergency Phone Number:

For Medical Emergencies, call 1-866-949-6465 / +1 303-389-1332 (Outside US and Canada) For Transportation Emergencies, call 1-800-424-9300 (Chemtrec) +1-703-527-3887 for

Outside US and Canada (call collect)

SDS Date of Preparation: 06/11/2015

Product Use and Uses Advised Against: Auto cleaning product - For consumer use

2. Hazards Identification

Note: This product is a consumer product and is labeled in accordance with the Consumer Product Safety Commission regulations and not OSHA regulations. The requirements for the labeling of consumer products take precedence over OSHA labeling so the actual product label will not contain the OSHA label elements shown below on this SDS.

GHS Classification:

Physical:	Health:	
Non-Hazardous	Eye Irritation Category 2A	III CONTRACTOR

GHS Label Elements:



WARNING!

Statements of Hazard

Causes serious eye irritation.

Prevention

Wash thoroughly after handling.

Wear eve protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical attention.

Hazards not otherwise specified: None



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Percentage of unknown toxicity: N/A

3. Composition/Information On Ingredients

Component	CAS No.	Amount
Non-Hazardous Ingredients	Mixture	>94%
Benzenesulfonic acid, C10-16-alkyl derivs.	68584-22-5	1 – <3%
Sodium alpha-olefin sulfonate	68439-57-6	1 – <3%

The specific identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

4. First Aid Measures

Inhalation: If inhaled, remove to fresh air. If breathing is difficult have qualified personnel administer oxygen. Get medical attention.

Skin Contact: Rinse skin with plenty of water. If skin irritation develops, seek medical attention.

Eye Contact: If contact occurs, flush eyes with large quantities of water for at least 15 minutes, holding the eyelids apart. Get medical attention if irritation persists.

Ingestion: Do not induce vomiting unless directed to by a doctor or physician. If the victim is fully conscious, have them rinse their mouth with water. Get medical assistance by calling a doctor or poison center. Never give anything by mouth to a person who is unconscious or drowsy.

Most Important Symptoms: Eye contact causes eye irritation. May causes mild skin irritation. May cause mild respiratory irritation.

Indication of Immediate Medical Attention/Special Treatment: Immediate medical attention should not be required.

5. Firefighting Measures

Suitable (and Unsuitable) Extinguishing Media: Use any media that is suitable for the surrounding fire. Cool fire exposed containers with water.

Specific Hazards Arising From the Chemical: Closed containers may rupture if exposed to extreme heat. Burning may release oxides of sulfur and carbon.

Special Fire Fighting Procedures: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored.

6: Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures: Wear appropriate protective clothing and equipment as described in Section 8.

Environmental Precautions: Report spill as required by local and national regulations. Prevent entry in storm sewers and waterways.



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Methods and Materials for Containment / Cleanup: Absorb with an inert material. Collect into a suitable container for disposal. Rinse area with water.

7. Handling and Storage

Precautions for Safe Handling: Avoid contact with eyes. Avoid contact with skin and clothing. Avoid breathing vapors or mists. Use only with appropriate protective equipment. Launder contaminated clothing before re-use.

Empty containers retain product residue and may be hazardous. Do not cut, weld, drill, etc. containers, even empty. Do not reuse empty containers.

Conditions for Safe Storage, Including Any Incompatibilities:

Protect containers from physical damage. Store in a cool, well-ventilated area away from acids and other incompatible materials. Keep out of the reach of children.

8. Exposure Controls / Personal Protection

Exposure Guidelines:

CHEMICAL	EXPOSURE LIMIT
Non-Hazardous Ingredients	None Established
Benzenesulfonic acid, C10-16-alkyl derivs.	None Established
Sodium alpha-olefin sulfonate	None Established

Appropriate Engineering Controls: General ventilation should be adequate for all normal use.

Personal Protective Equipment

Respiratory Protection: Good general ventilation (equivalent to outdoors) should be adequate under normal conditions. For operations where exposures may be excessive use a NIOSH approved respirator (mask) with appropriate eye protection. A full face piece respirator provides both eye and respiratory protection. Selection of respiratory protection depends on the contaminant type, form and concentration. Select in accordance with OSHA 1910.134, and all other applicable regulations; and good Industrial Hygiene practice.

Gloves: None normally required. Impervious gloves such as rubber, neoprene or nitrile are recommended for prolonged or repeated contact.

Eye Protection: Safety glasses or goggles are recommended if eye contact is possible.

Other Protective Equipment/Clothing: None required with normal use.

9. Physical and Chemical Properties

Appearance And Odor: Clear, thick, orange liquid with a fruity, apple, melon scent.

Physical State: Clear liquid.	Odor Threshold: Not available
pH: ~7.5	Specific Gravity: Not determined
Initial Boiling Point/Range: Not determined	Vapor Pressure: Not determined



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Melting/Freezing Point: Not determined	Vapor Density: Not determined	
Solubility In Water: Complete	Percent Volatile: >85%	
Viscosity: ~ 500cP	Evaporation Rate: Not determined	
Relative Density: ~ 1.0	VOC Content: Not available	
Coefficient Of Water/Oil Distribution: Not determined	Autoignition Temp: Not determined	
Flash Point: Not applicable	Flammability Limits: LEL: Not applicable UEL: Not applicable	
Decomposition Temperature: Not available	ure: Not available Flammability (solid, gas): Not applicable	

10. Stability and Reactivity

Reactivity: Not normally reactive

Chemical Stability: Stable under normal storage and handling conditions.

Possibility of Hazardous Reactions: Will react with acids and strong oxidizing agents.

Conditions To Avoid: None known.

Incompatible Materials: Acids and strong oxidizing agents.

Hazardous Decomposition Products: Thermal decomposition may release oxides of sulfur and carbon.

11. Toxicological Information

Acute Hazards:

Inhalation: May cause mild irritation to mucous membranes and upper respiratory tract.

Skin Contact: May causes mild skin irritation.

Eye Contact: Causes eye irritation.

Ingestion: Swallowing may cause gastrointestinal disturbances.

Chronic Effects: None currently known.

Carcinogenicity Listing: None of the components is listed as a carcinogen or potential carcinogen by IARC, NTP,

ACGIH or OSHA.

Acute Toxicity Values:

Sodium alpha-olefin sulfonate: LD50 Oral Rat: 2,079 mg/kg

LD50 Skin Rabbit: > 6,300 mg/kg LC50 Inhalation Rat: >5.2 mg/L/4 hr.

Benzenesulfonic acid, C10-16-alkyl derivs:

LD50 Oral Rat: 2,000 mg/kg LD50 Skin Rabbit: > 2,000 mg/kg LC50 Inhalation Rat: >1.9 mg/L/4 hr.



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12. Ecological Information

Ecotoxicity:

Sodium alpha-olefin sulfonate:

LC50 Brach danio rerio 4.2 mg/L/96 hr

EC50 Daphnia magna (Water flea, neonate) 65 mg/L/24 hr.

EC50 Ceriodaphnia sp. 4.53 mg/L/48 hr.

Benzenesulfonic acid, C10-16-alkyl derivs:

LL50 Pimephales promelas >1,000 mg/L/ 96 hr. EC50: Daphnia magna >1,000 mg / L / 48 hr.

Persistence and Degradability:

Sodium alpha-olefin sulfonate: Readily biodegradable

Bio accumulative Potential:

Sodium alpha-olefin sulfonate: BCF 70.8

Mobility in Soil:

No data available

Other Adverse Effects: No data available

13. Disposal Considerations

Dispose of in accordance with all local, state/provincial and federal regulations.

14. Transport Information

DOT Hazardous Materials Description: Not Regulated

Canadian TDG Hazardous Materials Description: Not Regulated

IMDG Dangerous Goods Description: Not Regulated

15. Regulatory Information

United States:

EPA TSCA INVENTORY: All of the components of this material are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

CERCLA Section 103: This product has no RQ. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

SARA Hazard Category (311/312): Acute Health

SARA 313: This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None

Canada:

Canadian Environmental Protection Act: All of the ingredients are listed on the Canadian DSL or the NDSL.

ARMOR ALL® Ultra Shine Wash & Wax

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This SDS has been prepared according to the criteria of the Controlled Products Regulation (CPR) and the SDS contains all of the information required by the CPR.

16. Other Information

NFPA Rating (NFPA 704):

Health: 1

Fire: 0

Instability: 0

HMIS Rating:

Health: 2

Fire: 0

Physical Hazard: 0

DATE OF CURRENT REVISION: 06/11/2015

REVISION SUMMARY: Update to OSHA HazCom 2012 GHS format. Changes to all sections.

DATE OF PREVIOUS REVISION: 08/30/2012

DATA SUPPLIED IS FOR USE ONLY IN CONNECTION WITH OCCUPATIONAL SAFETY AND HEALTH

SYNTHETIC FRICTION MODIFIER #AT-203

1. IDENTIFICATION

1.1. PRODUCT IDENTIFIER USED ON LABEL:

1.1.1. ATP AUTOMATIC TRANSMISSION FLUID SYNTHETIC FRICTION MODIFIER #AT-203

- 1.2. OTHER MEANS OF IDENTIFICATION:
 - 1.2.1. SYNTHETIC FRICTION MODIFIER
- 1.3. RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE;
 - 1.3.1. PETROLEUM LUBRICATING OIL
 - 1.3.2. FRICTION MODIFIER
 - 1.3.3. NO OTHER USES RECOMMENDED
- 1.4. NAME, ADDRESS, AND TELEPHONE NUMBER OF THE CHEMICAL MANUFACTURER, IMPORTER, OR OTHER RESPONSIBLE PARTY:

1.4.1.

Life Automotive Products, Inc.

500 Industrial Park Drive Selmer, TN 38375-3276 United States of America

Product Information

MSDS Requests: (800) 264-6457 or +17316454972 Technical Information: (800) 264-6457 or +17316454972 General Information: vswedley@spectrumcorporation.com

1.5. EMERGENCY PHONE NUMBER:

1.5.1.

Emergency Response

North America: CHEMTREC (800) 424-9300 after 5:00pm CST Or +17035273887

Health Emergency

USA: (800) 264-6457 or +17316454972

2. HAZARD(S) IDENTIFICATION

SYNTHETIC FRICTION MODIFIER #AT-203

2.1. CLASSIFICATION OF THE CHEMICAL IN ACCORDANCE WITH PARAGRAPH (d) of §1910.1200:

- 2.1.1. Acute Inhalation Category 4
- 2.1.2. Skin Irritant Category 2
- 2.1.3. Eye Irritant Category 2
- 2.1.4. Skin Sensitizer Category 1
- 2.2. Signal Word:
 - 2.2.1. Warning
- 2.3. Symbol:



2.4. Hazard Statements:

- 2.4.1. Harmful if Inhaled
- 2.4.2. Causes skin irritation
- 2.4.3. Causes serious eye irritation
- 2.4.4. May cause an allergic skin reaction

2.5. Precautionary Statements:

2.5.1. Prevention:

- 2.5.1.1. Avoid breathing mist or spray.
- 2.5.1.2. Use only outdoors or in a well-ventilated area.
- 2.5.1.3. Wash thoroughly after handling.
- 2.5.1.4. Wear protective gloves.
- 2.5.1.5. Wear eye protection/face protection.
- 2.5.1.6. Contaminated work clothing should not be allowed out of the workplace.

2.5.2. Response:

- 2.5.2.1. If inhaled: Remove person to fresh air and keep comfortable for breathing.
- 2.5.2.2. If on skin: Wash with plenty of water.
- 2.5.2.3. If skin irritation occurs: Get Medical advice/attention.
- 2.5.2.4. Take off contaminated clothing and wash it before reuse.
- 2.5.2.5. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- 2.5.2.6. Immediately call a poison center/doctor.

2.5.3. Disposal:

2.5.3.1. Dispose of contents/container in accordance with local/regional/national/international regulations.

3. Composition/information on ingredients

SYNTHETIC FRICTION MODIFIER #AT-203

3.1. The chemical name and concentration (exact percentage) or concentration ranges of all ingredients which are classified as health hazards in accordance with paragraph (d) of §1910.1200

3.1.1.

COMPONENTS	CAS Number	EU Number	Concentration	Hazard
The state of the s	Marie very com	1.2 months in section	(%)	Statements
		×	and the same	(see Section 16)
Polyalphaolefin	68037-01-4	500-183-1	25-50	H319
Petroleum distillates, hydrotreated heavy	64742-54-7	265-157-1	30-50	H332
paraffinic		t da 11 a 1 a 1		
Branched alkanes	68649-11-6	500-228-5	<10	H332
Amines, C12-14-alkyl, C6-10-alkyl	68603-55-4	271-663-3	10-20	H302, H315,
phosphates	, 1 1 1 1 L B	in the second	Tale 1 gen 19	H317, H319

4. FIRST AID MEASURES

4.1.

Skin:	Wash skin with soap and warm water. Wash clothing before re-use. If skin irritation or	
1000	rash occurs: Get medical advice/attention.	
Eye:	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if	
off cart of	present and easy to do. Continue rinsing. Immediately call a poison center/doctor.	
Inhalation:	Remove person to fresh air and keep comfortable for breathing. Call a poison	
	center/doctor if you feel unwell	
Ingestion:	If ingested, do not induce vomiting. Call a physician.	

5. FIRE FIGHTING MEASURES

- 5.1. Flash Point: >257°F (>125°C)
- 5.2. Protective Equipment/Fire Fighting Instructions:
 - 5.2.1. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.
- 5.3. Extinguishing Media:
 - 5.3.1. Use water fog, foam, dry chemical or carbon dioxide (CO₂) to extinguish flames.
- 5.4. Special Firefighting Procedures:
 - 5.4.1. Cool exposed containers with water spray.
- 5.5. Unusual Fire and Explosion Hazards:
 - 5.5.1. Pressure increase in over heated closed containers. Cool containers with water spray.

SYNTHETIC FRICTION MODIFIER #AT-203

6. ACCIDENTAL RELEASE MEASURES

6.1. Spill Procedures:

6.1.1. Remove ignition sources. Recover Liquid. Add absorbent to spill area. Ventilate confined spaces. Advise authorities if product enters sewers, etc.

6.2. Waste Disposal:

6.2.1. Assure conformity with applicable disposal regulations. Dispose of absorbed material at approved waste site

6.3. Precautionary Measures:

- 6.3.1. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Wash thoroughly after handling.
- 6.3.2. Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

7. HANDLING AND STORAGE

7.1. Handling

7.1.1. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum re-conditioner or disposed of properly.

7.2. Storage

7.2.1. Keep container closed when not in use. Do not store with strong oxidizing agents. Do not store at elevated temperatures.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1. Component Exposure Limits:

8.1.1. AUTOMATIC TRANSMISSION FLUID 5mg/m3 (oil mist) ACGIH TLV OSHA PEL

COMPONENTS	ACGIH TLV	OSHA PEL
Polyalphaolefin	5mg/m³ (oil	5mg/m³ (oil
	mist) TWA	mist) TWA
Petroleum distillates, hydrotreated heavy	5mg/m³ (oil	5mg/m³ (oil
paraffinic	mist) TWA	mist) TWA
Branched alkanes		

SYNTHETIC FRICTION MODIFIER #AT-203

COMPONENTS	ACGIH TLV	OSHA PEL
Amines, C12-14-alkyl, C6-10-alkyl	a character	
phosphates		

8.2. Engineering Controls:

8.2.1. Ventilate as needed to comply with exposure limit

8.3. Eye Protection:

8.3.1. Use goggles/face shield to avoid eye contact

8.4. Glove Protection:

8.4.1. Use impervious gloves to avoid repeated/prolonged skin contact.

8.5. Work/Hygienic Practices:

8.5.1. If clothing becomes contaminated, change to fresh clean clothing. Do not wear until thoroughly laundered.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Appearance/Odor:	Red colored liquid with mild hydrocarbon odor.	9.2. Odor Threshold:	No data available
9.3. pH:	No data available	9.4. Boiling Point:	Wide range
9.5. Melting Point:	No data available	9.6. Solubili y (H₂0):	Negligible
9.7. Specific Gravity:	0.8607 @ 15.6°C	9.8. Density:	7.128 lbs/gal
9.9. Ocanol H ₂ 0 Coeff.:	No data available	9.10. Evaporation Rate (BUAC=1):	<1
9.11. Molecular Weight:	No data available	9.12. Decompostion Temp:	No data available
9.13. Auto Ignition:	No data available	9.14. Lower Flammability Limit:	No data available
9.15. Flash Point:	>257°F (>125°C)	9.16. Upper Flammability Limit:	No data available
9.17. Vapor Density (Air=1):	>1	9.18. Vapor Pressure:	<1mmHg @ 20°C
9.19. VOC:	Nil	9.20. Flammability Class:	Not classified
9.21. Viscosity @ 40°C	39.18cSt (39.18 mm ² /s)	9.22. Viscosity @ 100°C	7.6cSt (7.6 mm ² /s)

10.STABILITY AND REACTIVITY

SYNTHETIC FRICTION MODIFIER #AT-203

10.1. Reactivity:

10.1.1. Material does not pose a significant reactivity hazard.

10.2. Chemical Stability:

10.2.1. Stable

10.3. Incompatibility/Conditions to avoid:

10.3.1. Avoid strong oxidants

10.4. Possibility of Hazardous Reactions:

10.4.1. Will not undergo hazardous polymerization.

10.5. Hazardous Decomposition Products:

10.5.1. Partial burning produces fumes, smoke and carbon monoxide

11. TOXICOLOGY INFORMATION

11.1. Likely Routes of Exposure:

11.1.1. Ingestion, Inhalation, Eye contact, Skin contact.

11.2. Acute Effects:

11.2.1. Inhalation: Harmful if inhaled.

11.2.2. Eye Contact: Causes serious eye irritation.

11.2.3. Skin Contact: Causes skin irritation. May cause an allergic skin reaction.

11.2.4. Ingestion: Expected to be low ingestion hazard.

11.3. Component Data/ Analysis

COMPONENTS	Oral (LD50) (Rat)	Inhalation (LC50)	Dermal (LD50)
		(Rat)	(Rabbit)
Petroleum distillates, hydrotreated	>5000 mg/kg	2.18 mg/l (4hr)	>2000 mg/kg
heavy paraffinic	\$100 Artists		
Polyalphaolefin	>5000 mg/kg	2.18 mg/l (4hr)	>2000 mg/kg
Branched alkanes	No data available	No data available	No data available
Amines, C12-14-alkyl, C6-10-alkyl phosphates	No data available	No data available	No data available

11.4. Sensitization:

11.4.1. May cause skin sensitization.

11.5. Carcinogenicity:

11.5.1. None greater than 0.1%.

11.6. Mutagenicity:

11.6.1. None known.

11.7. Reproductive Toxicity:

11.7.1. None known.

11.8. Teratogenicity:

11.8.1. None known.

12.ECOLOGICAL INFORMATION

SYNTHETIC FRICTION MODIFIER #AT-203

12.1. Ecotoxicity

12.1.1. An environmental fate analysis is not available for this specific product. Plants and animals may experience harmful or fatal effects when coated with petroleum products. Petroleum-based (mineral) lubricating oils normally will float on water. In stagnant or slow-flowing waterways, an oil layer can cover a large surface area. As a result, this oil layer might limit or eliminate natural atmospheric oxygen transport into the water. With time, if not removed, oxygen depletion in the waterway may be sufficient to cause a fish kill or create an anaerobic environment.

12.2. Environmental Fate

12.2.1. Analysis for ecological effects has not been conducted on this product. However, if spilled, this product and any contaminated soil or water may be harmful to human, animal, and aquatic life. Also, the coating action associated with petroleum and petroleum products can be harmful or fatal to aquatic life and waterfowl.

13. DISPOSAL CONSIDERATIONS

13.1. Waste Disposal:

13.1.1. Assure conformity with applicable disposal regulations. Dispose of absorbed material at approved waste site.

14.TRANSPORTATION INFORMATION

The shipping description below may not represent requirements for all modes of transportation, shipping methods or locations outside of the United States.

14.1. ROAD AND RAIL

14.1.1. DOT: NOT REGULATED

14.2. **VESSEL**

14.2.1. IMDG: NOT REGULATED

14.3. AIR

14.3.1. IATA: NOT REGULATED

15. REGULATORY INFORMATION

15.1. TSCA Inventory

15.1.1. This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

15.2. SARA 302/304 Emergency Planning and Notification

15.2.1. No components were identified.

15.3. SARA 311/312 Hazard Identification

15.3.1. Acute (Immediate) Health Hazard

15.4. SARA 313 Toxic Chemical Notification and Release Reporting

15.4.1. No components were identified.

15.5. **CERCLA**

15.5.1. No components were identified.

15.6. Clean Water Act (CWA)