

# Safety Data Sheet

Material Name: Gasoline All Grades

SDS No. 9950

## \*\*\* Section 14 - Transportation Information \*\*\*

### Component Marine Pollutants

This material contains one or more of the following chemicals required by US DOT to be identified as marine pollutants.

Component	CAS #	
Gasoline, motor fuel	86290-81-5	DOT regulated marine pollutant

### DOT Information

Shipping Name: Gasoline

UN #: 1203 Hazard Class: 3 Packing Group: II

Placard:



## \*\*\* Section 15 - Regulatory Information \*\*\*

### Regulatory Information

#### A: Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

##### Toluene (108-88-3)

SARA 313: 1.0 % de minimis concentration  
CERCLA: 1000 lb final RQ; 454 kg final RQ

##### Xylenes (o-, m-, p- isomers) (1330-20-7)

SARA 313: 1.0 % de minimis concentration  
CERCLA: 100 lb final RQ; 45.4 kg final RQ

##### Benzene, 1,2,4-trimethyl- (95-63-6)

SARA 313: 1.0 % de minimis concentration

##### Ethylbenzene (100-41-4)

SARA 313: 0.1 % de minimis concentration  
CERCLA: 1000 lb final RQ; 454 kg final RQ

##### Benzene (71-43-2)

SARA 313: 0.1 % de minimis concentration  
CERCLA: 10 lb final RQ (received an adjusted RQ of 10 lbs based on potential carcinogenicity in an August 14, 1989 final rule); 4.54 kg final RQ (received an adjusted RQ of 10 lbs based on potential carcinogenicity in an August 14, 1989 final rule)

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## Hexane (110-54-3)

SARA 313: 1.0 % de minimis concentration

CERCLA: 5000 lb final RQ; 2270 kg final RQ

## SARA Section 311/312 – Hazard Classes

<u>Acute Health</u>	<u>Chronic Health</u>	<u>Fire</u>	<u>Sudden Release of Pressure</u>	<u>Reactive</u>
X	X	X	--	--

## Component Marine Pollutants

This material contains one or more of the following chemicals required by US DOT to be identified as marine pollutants.

Component	CAS #	
Gasoline, motor fuel	86290-81-5	DOT regulated marine pollutant

## State Regulations

### Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Gasoline, motor fuel	86290-81-5	No	No	No	No	Yes	No
Toluene	108-88-3	Yes	Yes	Yes	Yes	Yes	No
Butane	106-97-8	Yes	Yes	Yes	Yes	Yes	No
Xylenes (o-, m-, p- isomers)	1330-20-7	Yes	Yes	Yes	Yes	Yes	No
Benzene, 1,2,4-trimethyl-	95-63-6	No	Yes	Yes	Yes	Yes	No
Ethyl alcohol	64-17-5	Yes	Yes	Yes	Yes	Yes	No
Ethylbenzene	100-41-4	Yes	Yes	Yes	Yes	Yes	No
Benzene	71-43-2	Yes	Yes	Yes	Yes	Yes	No
Hexane	110-54-3	No	Yes	Yes	Yes	Yes	No

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.

WARNING! This product contains a chemical known to the state of California to cause reproductive/developmental effects.

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**Component Analysis - WHMIS IDL**

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Toluene	108-88-3	1 %
Butane	106-97-8	1 %
Benzene, 1,2,4-trimethyl-	95-63-6	0.1 %
Ethyl alcohol	64-17-5	0.1 %
Ethylbenzene	100-41-4	0.1 %
Benzene	71-43-2	0.1 %
Hexane	110-54-3	1 %

**Additional Regulatory Information**

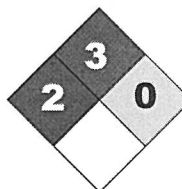
**Component Analysis - Inventory**

Component	CAS #	TSCA	CAN	EEC
Gasoline, motor fuel	86290-81-5	No	DSL	EINECS
Toluene	108-88-3	Yes	DSL	EINECS
Butane	106-97-8	Yes	DSL	EINECS
Xylenes (o-, m-, p- isomers)	1330-20-7	Yes	DSL	EINECS
Benzene, 1,2,4-trimethyl-	95-63-6	Yes	DSL	EINECS
Ethyl alcohol	64-17-5	Yes	DSL	EINECS
Ethylbenzene	100-41-4	Yes	DSL	EINECS
Benzene	71-43-2	Yes	DSL	EINECS
Hexane	110-54-3	Yes	DSL	EINECS

**\*\*\* Section 16 - Other Information \*\*\***

**NFPA® Hazard Rating**

Health	2
Fire	3
Reactivity	0



**HMIS® Hazard Rating**

Health	2	Moderate
Fire	3	Serious
Physical	0	Minimal

\*Chronic

**Key/Legend**

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry.

**Literature References**

None

# Safety Data Sheet

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## Other Information

Information presented herein has been compiled from sources considered to be dependable, and is accurate and reliable to the best of our knowledge and belief, but is not guaranteed to be so. Since conditions of use are beyond our control, we make no warranties, expressed or implied, except those that may be contained in our written contract of sale or acknowledgment.

Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material, even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in their use of the material.

End of Sheet





**Section 1 - Product and Company Identification**

- Material Name** - **Black Jack Elastic Crack Filler**  
**Chemical Category** - Mixture  
**Product Code** - 6438-9-34  
**Product Description** - Asphalt driveway crack filler  
**Product Use** - Filler and sealant for asphalt pavements.  
**Synonyms** - Low VOC Water Based Asphalt Crack Sealer  
**Manufacturer** - Gardner-Gibson  
4161 E. 7th Avenue  
Tampa, FL 33605  
United States
- Telephone**  
**Technical** - 813-248-2101 - Customer Service: 8 AM - 5 PM M-F Eastern Standard Time  
**Emergency** - 800-424-9300 - CHEMTREC  
**Emergency** - 703-527-3887 - CHEMTREC (Outside US)
- Last Revision Date** - 03-23-2015

**Section 2 - Hazards Identification**

**Signal Word: WARNING!**

**Hazards and Precautions**

*Contains Petroleum Based Products. Use only with adequate ventilation. Avoid prolonged breathing of vapor or spray mist as may cause headache, nausea, and respiratory tract irritation. Keep product closed and properly stored when not in use. Avoid contact with skin. Use protective gloves, safety glasses, and protective clothing when using this product. Do not use in drinking water or food systems. Do not reuse empty container. Make sure container is sealed and secured in an upright position during transportation. Do not eat or drink while using this product and wash hand thoroughly after use.*

**Prevention** Do not breathe dust, fume, gas, mist, vapours and/or spray. Do not handle until all safety precautions have been read and understood.

**Response** IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.



- Physical Form** - Liquid  
**Color** - Black  
**Odor** - Mild Hydrocarbon.  
**Flash Point** - 460°F(238°C)  
**OSHA HCS2012** - Specific Target Organ Toxicity Repeated Exposure - Category 2, Skin Corrosion/Irritation - Category 2, Serious Eye Damage, Eye Irritation - Category 2, Carcinogenicity - Category 1A (asphalt fume high temperatures),  
**WHMIS** - Class D - Poisonous and Infectious Materials - Division 2 - Subdivision A



**GHS**

- Specific Target Organ Toxicity Repeated Exposure - Category 2, Skin Corrosion/Irritation - Category 2, Serious Eye Damage, Eye Irritation - Category 2, Carcinogenicity - Category 1A

**Route Of Entry**

- Inhalation, Skin, Eye

**Potential Health Effects**

**Inhalation**

- Acute (Immediate)** - May cause irritation.
- Chronic (Delayed)** - No data available

**Skin**

- Acute (Immediate)** - May cause irritation.
- Chronic (Delayed)** - Repeated and prolonged exposure may cause dermatitis.

**Eye**

- Acute (Immediate)** - May cause burning and redness or swelling of the eyes. May cause irritation.
- Chronic (Delayed)** - Repeated and prolonged exposure may cause irritation.

**Ingestion**

- Acute (Immediate)** - May be harmful or fatal if swallowed.
- Chronic (Delayed)** - No data available

**Carcinogenic Effects**

- See Section 11 - Toxicological Information.

Carcinogenic Effects			
	CAS	IARC	NTP
Asphalt	8052-42-4	Group 2B-Possible Carcinogen	Under Consideration

**Other Information** - This product is an encapsulated mixture which reduces the likelihood of exposure to hazardous particulates. Airborne exposures to hazardous dusts or mists may be generated by spraying, sanding or grinding. During spraying or sanding the product, wear suitable respiratory equipment to protect against inhalation of mist and dust.

**Section 3 - Composition/Information on Ingredients**

Hazardous Components						
Chemical Name	CAS	%(wt)	UN;EINECS	LD50/LC50	EU R & S Phrases	Other
Asphalt	8052-42-4	15% TO 25%	NA1999, 232-490-9	Ingestion/Oral-Rat LD50 · >5000 mg/kg Inhalation-Rat LC50 · >94.4 mg/m <sup>3</sup>	NDA	NDA
Kaolin	1332-58-7	10% TO 20%			NDA	NDA
Bentonite	1302-78-9	1% TO 5%	215-108-5		NDA	NDA
Non-Hazardous Components						
Chemical Name	CAS	%(wt)	UN;EINECS	LD50/LC50	EU R & S Phrases	Other
Water	7732-18-5	40% TO 50%	231-791-2	Ingestion/Oral-Rat LD50 · >90 mL/kg	NDA	NDA
Latex Polymer	N/A	0.1% TO 5%			NDA	NDA

**This product is an encapsulated mixture which reduces the likelihood of exposure to hazardous particulates. Airborne exposures to hazardous dusts or mists may be generated by spraying, sanding or grinding.**

See Section 11 for Toxicological Information.

#### Section 4 - First Aid Measures

- |                   |   |
|-------------------|---|
| <b>Inhalation</b> | - Remove to fresh air if you feel unwell. Call a physician or poison control center. If not breathing, give artificial respiration.   |
| <b>Skin</b>       | - Wash the contaminated area of body with soap and fresh water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.  |
| <b>Eye</b>        | - Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. If eye irritation persists: Get medical advice/attention. |
| <b>Ingestion</b>  | - Call a physician or poison control center immediately. Do not give anything by mouth to an unconscious person. Do NOT induce vomiting.  |

#### Section 5 - Fire Fighting Measures

- |   |  |
|---|--|
| <b>Extinguishing Media</b>                | - SMALL FIRES: Dry chemical, CO2, water spray or regular foam.   |
| <b>Unsuitable Extinguishing Media</b>     | - No data available  |
| <b>Firefighting Procedures</b>            | - Keep unauthorized personnel away. Stay upwind of the fire to reduce exposure. Fire fighters should wear complete protective clothing including self-contained breathing apparatus. |
| <b>Unusual Fire and Explosion Hazards</b> | - Some of these materials may burn, but will not readily ignite. May release irritating or toxic gases, fumes, or vapors.  |
| <b>Hazardous Combustion Products</b>      | - Carbon monoxide, carbon dioxide, hydrocarbons.   |
| <b>Protection of Firefighters</b>         | - Wear positive pressure self-contained breathing apparatus (SCBA).  |
| <b>Flash Point</b>                        | - 460°F(238°C)   |

#### Section 6 - Accidental Release Measures

- |                                      |  |
|--------------------------------------|--|
| <b>Personal Precautions</b>          | - Do not manage damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate enclosed areas when dealing with spills.  |
| <b>Emergency Procedures</b>          | - Stop leak if you can do so without risk. Isolate the area and contain the spilled material. Persons not wearing the appropriate PPE should be removed from the area until the spill is cleaned up. |
| <b>Environmental Precautions</b>     | - Avoid run off to waterways and sewers.   |
| <b>Containment/Clean-up Measures</b> | - Use appropriate Personal Protective Equipment (PPE). Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in suitable container.                                   |
| <b>Prohibited Materials</b>          | - Avoid contact with strong oxidizing agents and acids.  |

#### Section 7 - Handling and Storage

- |   |  |
|---|--|
| <b>Handling</b>                                   | - Keep containers tightly closed when not in use. Use only with adequate ventilation.  |
| <b>Storage</b>                                    | - Keep only in the original container/package in a cool well-ventilated place. Keep away from fire. Keep container closed when not in use. |
| <b>Special Packaging Materials</b>                | - No data available  |
| <b>Incompatible Materials or Ignition Sources</b> | - Avoid contact with strong oxidizing agents and acids.  |

## Section 8 - Exposure Controls/Personal Protection

### Personal Protective Equipment Pictograms



### Respiratory

- When used with adequate ventilation, a respirator is not normally required. If required, use a NIOSH-approved air purifying respirator with organic vapor cartridge or supplied air respirator. This product is an encapsulated mixture which reduces the likelihood of exposure to hazardous particulates. Airborne exposures to hazardous dusts or mists may be generated by spraying, sanding or grinding.

### Eye/Face

- Wear ANSI approved safety glasses with side shields or safety goggles.

### Hands

- Wear chemical protective gloves made of Nitrile or Neoprene.

### Skin/Body

- Wear clothing that covers the skin to prevent skin exposure.

### General Industrial Hygiene Considerations

- Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke during work. Wash hands before eating.

### Engineering

- Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

### Measures/Controls

Exposure Limits/Guidelines					
	Result	ACGIH	Canada Ontario	OSHA	United States - California
Kaolin (1332-58-7)	TWAs	2 mg/m <sup>3</sup> TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)	2 mg/m <sup>3</sup> TWAEV (containing no asbestos and less than 1% crystalline silica, respirable)	15 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable fraction)	2 mg/m <sup>3</sup> PEL (respirable dust, containing no asbestos fibers, < 1% crystalline silica)
Asphalt (8052-42-4)	TWAs	0.5 mg/m <sup>3</sup> TWA (as benzene soluble aerosol, fume, inhalable fraction)	0.5 mg/m <sup>3</sup> TWAEV (fume, inhalable, as benzene-soluble aerosol)	Not established	5 mg/m <sup>3</sup> PEL (fume)

#### Exposure Control Notations

#### ACGIH

- Kaolin (1332-58-7):Carcinogens:A4 - Not Classifiable as a Human Carcinogen
- Asphalt (8052-42-4):Carcinogens:A4 - Not Classifiable as a Human Carcinogen (fume, coal tar-free)

#### Key to abbreviations

- PEL = Permissible Exposure Level determined by the Occupational Safety and Health Administration (OSHA)
- TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

## Section 9 - Physical and Chemical Properties

### Physical Form

- Liquid

### Appearance/Description

- Thick black semi-liquid.

Color: Black	Odor: Mild Hydrocarbon.		
Taste: NDA	Odor Threshold: NDA		
Boiling Point:	212 F(100 C)	Vapor Pressure:	NDA
Melting Point:	NDA	Vapor Density:	> 1 Air=1
Specific Gravity/Relative Density:	= 1.16 Water=1	Evaporation Rate:	< 1 Water = 1
Density:	= 9.73 lbs/gal	VOC (Wt.):	NDA
Bulk Density:	NDA	VOC (Vol.):	< 5 g/L
pH:	9 to 10	Volatiles (Wt.):	NDA
Water Solubility:	NDA	Volatiles (Vol.):	NDA
Solvent Solubility:	NDA	Flash Point:	460°F(238°C)
Viscosity:	NDA	Flash Point Test Type:	Closed Cup

## Section 10 - Stability and Reactivity

- Stability** - Stable under normal temperatures and pressures.  
**Hazardous Polymerization** - Hazardous polymerization not indicated.  
**Conditions to Avoid** - Avoid contact with strong oxidizing agents and acids.  
**Incompatible Materials** - Strong oxidizers and acids.  
**Hazardous Decomposition Products** - Carbon monoxide, carbon dioxide and hydrocarbons.

## Section 11 - Toxicological Information

Component Name	Concentration	CAS	Data
Asphalt	15% TO 25%	8052-42-4	Acute Toxicity: ; orl-rat LD50:>5000 mg/kg; ihl-rat LC50:>94.4 mg/m3; ihl-hmn TDLo:10 mg/m3/5.5Y-I Tumorigen/Carcinogen: ; skn-mus TDLo:905 gm/kg/2Y-I
Kaolin	10% TO 20%	1332-58-7	Acute Toxicity: ; orl-rat TDLo:370 gm/kg/37D-I
Bentonite	1% TO 5%	1302-78-9	Acute Toxicity: ; orl-rat TDLo:700 mg/kg/7D-I

- Other Component Information** - IARC has concluded that the following chemicals in this product are carcinogenic to humans (Group 1): silica, quartz. ACGIH has designated the following chemicals in this product as suspected human carcinogens (A2): silica, quartz. NTP has listed the following chemicals in this product as known human carcinogens: silica, quartz. Risk of cancer depends on duration and level of exposure to this product as a dust or aerosol mist. Airborne exposure is not expected with this product. The materials are encapsulated and would only be release if the dry material was sanded. Exposure could increase if the product is sprayed.
- Other Information** - This product contains petroleum asphalt. Petroleum asphalt is not listed as a carcinogen by OSHA or NTP. The National Institute of Occupational Safety and Health (NIOSH), has concluded that at higher temperatures roofing asphalt fumes are a potential occupational carcinogen. If this product is heated or comes in contact with heated material, avoid breathing fumes. This product may contain small amounts of polycyclic aromatic hydrocarbons (PAH's) which are recognized carcinogens in humans and experimental animals. Mouse skin painting studies of roofing asphalt vapor concentrate have shown evidence of tumor formation associated with localized skin irritation in recent studies. Inhalation studies of high airborne concentrations of asphalt/bitumen fumes in rats and mice produced bronchitis, pneumonitis, and lung changes such as fibrosis and cell damage.

## Section 12 - Ecological Information

- Ecological Fate** - No data available.  
**Persistence/Degradability** - No data available.  
**Bioaccumulation Potential** - No data available.  
**Mobility in Soil** - No data available.

## Section 13 - Disposal Considerations

- Product** - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## Section 14 - Transportation Information

DOT - United States - Department of Transportation  
Shipping Name: Not Restricted

TDG - Canada - Transport of Dangerous Goods



Shipping Name: Not Restricted

IMO/IMDG –International Maritime Transport  
Shipping Name: Not Restricted

**Section 15 - Regulatory Information**

- SARA Hazard Classifications** - Acute, Chronic  
**Risk & Safety Phrases** - California PROP 65: Asphalt and Asphalt Fumes may contain detectable amounts of chemicals known to the State of California to cause cancer or reproductive harm.

State Right To Know				
Component	CAS	MA	MN	NJ
Water	7732-18-5	No	No	No
Latex Polymer	NDA	No	No	No
Asphalt	8052-42-4	Yes	Yes	Yes
Kaolin	1332-58-7	Yes	Yes	Yes
Bentonite	1302-78-9	No	No	No

Inventory			
Component	CAS	EU EINECS	TSCA
Water	7732-18-5	Yes	Yes
Latex Polymer	NDA	Yes	Yes
Asphalt	8052-42-4	Yes	Yes
Kaolin	1332-58-7	Yes	Yes
Bentonite	1302-78-9	Yes	Yes

**Canada - WHMIS - Classifications of Substances**

▪ Kaolin	1332-58-7	10% TO 20%	D2A
▪ Asphalt	8052-42-4	15% TO 25%	Not Listed
▪ Bentonite	1302-78-9	1% TO 5%	D2A
▪ Water	7732-18-5	40% TO 50%	Uncontrolled product according to WHMIS classification criteria

**U.S. - California - Proposition 65 - Carcinogens List**

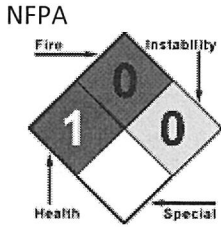
▪ Kaolin	1332-58-7	10% TO 20%	Not Listed
▪ Asphalt	8052-42-4	15% TO 25%	Not Listed
▪ Bentonite	1302-78-9	1% TO 5%	Not Listed
▪ Water	7732-18-5	40% TO 50%	Not Listed

**Section 16 - Other Information**

- Last Revision Date** - 03/23/2015  
**Prepared By** - Gardner-Gibson Inc.

**Disclaimer/Statement of Liability**

- This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to verify the suitability and completeness of such information for particular use. Gardner-Gibson does not accept liability for any loss or damage that may occur from the use of this information.







# MATERIAL SAFETY DATA SHEET

R1K4  
14 00

DATE OF PREPARATION  
Feb 1, 2016

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

R1K4

### PRODUCT NAME

Mineral Spirits

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Product Information	(800) 524-5979 www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)	

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
100	64742-88-7	Med. Aliphatic Hydrocarbon Solvent		
		ACGIH TLV	100 PPM	1.27 mm
		OSHA PEL	100 PPM	

## 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: Irritation.

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.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

### CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

### HMIS Codes

Health	2
Flammability	2
Reactivity	0

## SECTION 4 — FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

SKIN: Wash affected area thoroughly with soap and water.

Remove contaminated clothing and laundry before re-use.

INHALATION: 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

<b>FLASH POINT</b>	<b>LEL</b>	<b>UEL</b>	<b>FLAMMABILITY CLASSIFICATION</b>
105 °F PMCC	1.0	6.0	Combustible, Flash above 99 and below 200 °F

**EXTINGUISHING MEDIA**

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.

**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 autoignition 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 II

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Contents are COMBUSTIBLE. Keep away from heat and open flame.

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.

Wash hands after using.

**VENTILATION**

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 fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

**PROTECTIVE GLOVES**

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

**EYE PROTECTION**

Wear safety spectacles with unperforated sideshields.

**OTHER PRECAUTIONS**

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

**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

<b>PRODUCT WEIGHT</b>	6.42 lb/gal	769 g/l
<b>SPECIFIC GRAVITY</b>	0.77	
<b>BOILING POINT</b>	300 - 395 °F	148 - 201 °C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	100%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	Not Available	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
6.42 lb/gal	769 g/l	Less Water and Federally Exempt Solvents
6.42 lb/gal	769 g/l	Emitted VOC

**SECTION 10 — STABILITY AND REACTIVITY****STABILITY — Stable  
CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

**SECTION 11 — TOXICOLOGICAL INFORMATION****CHRONIC HEALTH HAZARDS**

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

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

**TOXICOLOGY DATA**

CAS No.	Ingredient Name			
64742-88-7	Med. Aliphatic Hydrocarbon Solvent			
		LC50 RAT	4HR	Not Available
		LD50 RAT		>5000 mg/kg

**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 pollution.

**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)**

May be Classed as a Combustible Liquid for U.S. Ground.

UN1263, PAINT RELATED MATERIAL, 3, PG III, (ERG#128)

**Bulk Containers may be Shipped as:**

UN1263, PAINT RELATED MATERIAL, 3, PG III, (ERG#128)

**Canada (TDG)**

May be Classed as a Combustible Liquid for Canadian Ground.

UN1263, PAINT RELATED MATERIAL, 3, PG III, (ERG#128)

**IMO**

5 Liters (1.3 Gallons) and Less may be Shipped as Limited Quantity.

UN1263, PAINT RELATED MATERIAL, 3, PG III, (41 C c.c.), EmS F-E, S-E**IMO**

5 Liters (1.3 Gallons) and Less may be Shipped as Limited Quantity.

UN1263, PAINT RELATED MATERIAL, 3, PG III, (41 C c.c.), EmS F-E, S-E**IATA/ICAO**

UN1263, PAINT RELATED MATERIAL, 3, PG III

**SECTION 15 — REGULATORY INFORMATION****SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
No ingredients in this product are subject to SARA 313 (40 CFR 372.65C) Supplier Notification.			

**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 alter 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.



# MATERIAL SAFETY DATA SHEET

Date stamp: 29-Jul-2005

MSDS Ref. No.: 100099

Revision Number: 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name:** Miracle-Gro® Water Soluble All Purpose Plant Food, 24-8-16  
**Description:** Water Soluble Fertilizer

**Company**  
The Scotts Company  
14111 Scottslawn Road  
Marysville, OH 43041

**24-HOUR EMERGENCY TELEPHONE NUMBERS:**  
CHEMTREC (U.S.): 1-800-424-9300  
CHEMTREC (International): 1-703-527-3887  
Non-Emergency Calls: 1-937-644-0011

**Formula No.:** S10385

## 2. HAZARDS IDENTIFICATION

**OSHA Regulatory Status:** This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Labelling

**Signal word:** No signal word.

**Precautionary Statement**  
Keep out of reach of children.

### Potential health effects

**Eye contact:** Contact with eyes may cause irritation.

**Skin contact:** Irritation not expected. Irritation possible.

**Ingestion:** Considered practically non-toxic. Possible gastrointestinal tract irritation.

**Inhalation:** May cause irritation of respiratory tract.

**Aggravated Medical Conditions:** Inhalation may aggravate asthma.

**Principle routes of exposure:** Skin, Inhalation

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No	Weight %
di-Sodium-EDTA	139-33-3	<0.1
Potassium Phosphate	7778-77-0	10-30
Boric acid, H3BO3	10043-35-3	0.1-1.0
Sodium molybdate, Na2MoO4+2H2O	7631-95-0	<0.1
Iron EDTA	15708-41-5	1.0-5.0
Manganese EDTA	15375-84-5	0.1-1.0
Potassium chloride, KCl	7447-40-7	10-30
Copper sulphate, CuSO4	7758-98-7	0.1-1.0
Zinc Sulfate	7733-02-0	0.1-1.0
Ammoniumsulphate, (NH4)2SO4	7783-20-2	10-30
Urea	57-13-6	30-60

## 4. FIRST AID MEASURES

**Eye contact:** Hold eye open and rins slowly and gently with water for 15-20 minutes. Remove contact lenses, if present after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice

**Skin contact:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice

**Ingestion:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person

**Inhalation:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice

**5. FIRE-FIGHTING MEASURES**

<b>Flammable properties:</b>	Decomposes on heating.
<b>Suitable extinguishing media:</b>	Water spray, carbon dioxide, dry chemical, chemical foam
<b>Explosion potential:</b>	Dust clouds may be explosive.
<b>Explosive properties:</b>	No information available.
<b>Hazardous combustion products:</b>	Combustion can produce toxic fumes and irritating gases.
<b>Fire fighting procedures:</b>	Select appropriate method to surround and extinguish fire
<b>Special protective equipment for firefighters:</b>	In the event of fire, wear self-contained breathing apparatus

**6. ACCIDENTAL RELEASE MEASURES**

<b>Personal precautions:</b>	Wear personal protective equipment
<b>Environmental precautions:</b>	Prevent product from entering drains
<b>Methods for containment:</b>	Use good housekeeping practices. Clean up promptly by sweeping or vacuum.
<b>Methods for cleaning up:</b>	If material is uncontaminated, collect and reuse as recommended for product.

**7. HANDLING AND STORAGE**

**Handling:** Avoid container breakage

**Storage:** Keep containers tightly closed in a cool, well-ventilated place

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Components	ACGIH:	OSHA:
Ammoniumsulphate, (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	Not Listed	Not Listed
Potassium Phosphate	Not Listed	Not Listed
Potassium chloride, KCl	Not Listed	Not Listed
Urea	Not Listed	Not Listed
Boric acid, H <sub>3</sub> BO <sub>3</sub>	2 mg/m <sup>3</sup> TWA inhalable fraction, listed under borate compounds, inorganic	Not Listed
Manganese EDTA	0.2 mg/m <sup>3</sup> TWA	Not Listed
Iron EDTA	1 mg/m <sup>3</sup> TWA as Fe	Not Listed
Copper sulphate, CuSO <sub>4</sub>	0.2 mg/m <sup>3</sup> TWA fume 1 mg/m <sup>3</sup> TWA dusts and mists, as Cu	0.1 mg/m <sup>3</sup> TWA fume 1 mg/m <sup>3</sup> TWA dusts and mists
Zinc Sulfate	Not Listed	Not Listed
Sodium molybdate, Na <sub>2</sub> MoO <sub>4</sub> ·2H <sub>2</sub> O	0.5 mg/m <sup>3</sup> TWA respirable fraction, as Mo 10 mg/m <sup>3</sup> TWA inhalable fraction 3 mg/m <sup>3</sup> TWA respirable fraction	15 mg/m <sup>3</sup> TWA total dust 5 mg/m <sup>3</sup> TWA as Mo
di-Sodium-EDTA	Not Listed	Not Listed

**Engineering controls** Use adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standard

**Personal Protective Equipment**

<b>Eye/face protection:</b>	Eye/face protection is not required, but is recommended in manufacturing situations where contact may occur.
<b>Skin and body protection:</b>	Wear suitable protective clothing if contact is anticipated during manufacturing. Impervious gloves.
<b>Respiratory protection:</b>	If airborne levels are high or product does not remain intact, use a combination of engineering controls (e.g. ventilation) and personal protection (e.g. NIOSH/MSHA approved respirator for dusts, mists, and fumes)

**General hygiene considerations:** Wash hands before breaks and immediately after handling the product.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State:</b>	Solid	<b>Appearance:</b>	Granular
<b>Color:</b>	Blue	<b>pH:</b>	3.0 - 4.0
<b>Bulk density:</b>	45-50 lbs/cu.ft.	<b>Solubility:</b>	Water solubility, Highly soluble (>80%)
<b>Flash point:</b>	Not applicable		

**10. STABILITY AND REACTIVITY**

**Chemically Stable:** Yes  
**Conditions to avoid:** Damp or wet conditions. Extreme heat.  
**Materials to avoid:** Oxidizing agents. Metals. Bases.  
**Hazardous decomposition products:** Toxic fumes and gases may be generated. Metal oxides possible.  
**Possibility of hazardous reactions:** Poses little or no immediate hazard.

**11. TOXICOLOGICAL INFORMATION****Acute toxicity**

**Eye effects:** Contact with eyes may cause irritation  
**Skin effects:** May cause skin irritation and/or dermatitis

**Chronic toxicity**

**Carcinogenic effects:** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Components	NTP:	IARC:	OSHA:
Ammoniumsulphate, (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	Not listed	Not listed	Not listed
Potassium Phosphate	Not listed	Not listed	Not listed
Potassium chloride, KCl	Not listed	Not listed	Not listed
Urea	Not listed	Not listed	Not listed
Boric acid, H <sub>3</sub> BO <sub>3</sub>	Not listed	Not listed	Not listed
Manganese EDTA	Not listed	Not listed	Not listed
Iron EDTA	Not listed	Not listed	Not listed
Copper sulphate, CuSO <sub>4</sub>	Not listed	Not listed	Not listed
Zinc Sulfate	Not listed	Not listed	Not listed
Sodium molybdate, Na <sub>2</sub> MoO <sub>4</sub> ·2H <sub>2</sub> O	Not listed	Not listed	Not listed
di-Sodium-EDTA	Not listed	Not listed	Not listed

**General Information**

**Ingestion:** Very low toxicity for humans and animals  
 Health injuries are not known or expected under normal use  
**Inhalation:** Health injuries are not known or expected under normal use

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity effects:** No data is available on the product itself.  
**Persistence and degradability:** Inherently biodegradable. Non-persistent.  
**Bioaccumulative potential:** Does not bioaccumulate.  
**Mobility:** Water contaminating.  
**Aquatic toxicity:** May be beneficial to plant life.  
**Additional ecological information:** Do not apply directly to lakes, streams, or ponds.

**13. DISPOSAL CONSIDERATIONS**

**Waste Disposal Methods:** Apply as fertilizer to field. Dispose of in accordance with local regulations and national regulations.  
**Contaminated packaging:** Do not re-use empty containers. If empty, place in trash or offer for recycling if available.

**14. TRANSPORT INFORMATION**

The description shown may not apply to all situations. Consult 49 CFR, or appropriate dangerous goods regulations for additional description requirements (e.g. technical name) and mode-specific or quantity-specific shipping requirements.

**DOT**

**Proper shipping name:** Not regulated

**15. REGULATORY INFORMATION**



Components	CAS-No	CERCLA/SARA 313	CERCLA/SARA 302
Ammoniumsulphate, (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	7783-20-2	Not Listed	Not Listed
Potassium Phosphate	7778-77-0	Not Listed	Not Listed
Potassium chloride, KCl	7447-40-7	Not Listed	Not Listed
Urea	57-13-6	Not Listed	Not Listed
Boric acid, H <sub>3</sub> BO <sub>3</sub>	10043-35-3	Not Listed	Not Listed
Manganese EDTA	15375-84-5	Not Listed	Not Listed
Iron EDTA	15708-41-5	Not Listed	Not Listed
Copper sulphate, CuSO <sub>4</sub>	7758-98-7	10 lb final RQ 2270 kg final RQ 4.54 kg final RQ 5000 lb final RQ	Not Listed
Zinc Sulfate	7733-02-0	1000 lb final RQ 454 kg final RQ 454 kg final RQ	Not Listed
Sodium molybdate, Na <sub>2</sub> MoO <sub>4</sub> +2H <sub>2</sub> O	7631-95-0	Not Listed	Not Listed
di-Sodium-EDTA	139-33-3	Not Listed	Not Listed

**General Information**

Contact local authorities for disposal of large quantities of product

**16. OTHER INFORMATION****NFPA:** Health: 1 Flammability: 0 Reactivity: 0**HMIS:** Health: 1 Flammability: 0 Reactivity: 0**Hazard Rating:** 0=Least; 1=Slight; 2=Moderate; 3=High; 4=Severe

**General comment:** This document contains health, safety, and environmental information useful to emergency response agencies, health care providers, manufacturers, and workers/employees. It does not replace the precautionary language, use directions, or the storage and disposal information found on the product label.

**Revision date:** 08-Jun-2005

**Additional Information:** This information contained herein is, to the best of Scott's knowledge and belief, accurate and reliable as of the date of preparation of this document. However, no warranty or guarantee, express or implied, is made as to the accuracy or reliability, and Scotts shall not be liable for any loss or damage arising out of the use thereof. No authorization is given or implied to use any patented invention without a license. In addition, Scotts shall not be liable for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.



**SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**COMPANY ADDRESS:**

ALBAUGH, LLC  
Ankeny, IA 50021  
1-800-247-8013

**EMERGENCY TELEPHONE NUMBERS:**

For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call  
CHEMTREC Day or Night

- Within USA and Canada: 1-800-424-9300 CCN771
- Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

**PRODUCT NAME** : **GLY STAR GOLD**  
**CHEMICAL NAME** : Isopropylamine Salt of Glyphosate  
**PRODUCT USE** : Herbicide  
**PRODUCT CODE** : EPA Reg. No 42750-61

**SECTION 2 - HAZARDS IDENTIFICATION SUMMARY**

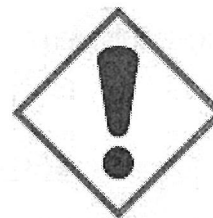
(As defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200)

Clear yellow viscous liquid with slight amine like odor

**HEALTH HAZARDS:** Warning. Moderately irritating to eyes.

**PHYSICAL HAZARDS:** May react with metals such as galvanized or mild steel to produce hydrogen gas which could form a highly combustible gas mixture.

**ENVIRONMENTAL HAZARDS:** Moderately toxic to fish and aquatic plants. May be toxic to non-target plants.



**SECTION 3 - COMPOSITION, INFORMATION OF INGREDIENTS**

COMPONENT	PERCENTAGE	CAS NUMBER
Isopropylamine Salt of Glyphosate	41.0%	38641-94-0
Inert Ingredients	59.0 %	n/a

**SECTION 4 - FIRST AID MEASURES**

First Aid responders should use protective equipment in Section 8 if there is a potential for exposure to product.

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**IF INHALED:** Move person to fresh air, if person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**SECTION 5 - FIRE FIGHTING MEASURES**

National Fire Protection Rating (NFPA)

<b>HEALTH</b>	1
<b>FLAMMABILITY</b>	0
<b>REACTIVITY</b>	1
4=Severe 3=Serious 2=Moderate 1=Slight 0=Minimal	

**FLASHPOINT:** Will not flash.

**EXTINGUISHING MEDIA:** Use water spray, foam or dry chemical.

**FIRE AND EXPLOSION HAZARD:** May decompose in fire due releasing irritating or toxic gases including carbon monoxide, nitrogen oxides, phosphorous oxides.

**FIRE FIGHTING INSTRUCTIONS:** Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Foam or dry chemical extinguishing systems recommended to prevent environmental damage due to water run off.

**FIRE FIGHTING EQUIPMENT:** Self-contained breathing apparatus with full facepiece. Full firefighting turn-out gear (Bunker gear).

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

**IN CASE OF SPILLS OR LEAKS:** Clean up spills immediately, observing precautions in Section 8 of this document. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

**SMALL SPILL:** Absorb small spills on sand, vermiculite or other inert absorbent. Place contaminated material in appropriate container for disposal.

**LARGE SPILL:** Dike large spills using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse. Allow absorbed material to solidify, and scrape up for disposal. After removal, scrub the area with detergent and water and neutralize with dilute alkaline solutions of soda ash, or lime.

Do not allow washwaters to enter waterways.

**SECTION 7 - HANDLING AND STORAGE**

**KEEP OUT OF REACH OF CHILDREN!**

**HANDLING:** Use only in a well-ventilated area. Wear appropriate safety equipment when handling.

**STORAGE:** Store in original container with lid tightly closed. Keep away from food, feed and drinking water. Store above 15° F (-10 C). If crystallized, warm to 80-90 F and redissolve by shaking container before using product.

**SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION****EXPOSURE LIMITS (8 hour TWA, ppm):**

COMPONENT	OSHA PEL	ACIGH TLV
Isopropylamine salt of glyphosate	Not Est.	Not Est.

**ENGINEERING CONTROLS:** Proper ventilation is required when handling or using this product to keep exposure to airborne contaminants below the exposure limit. Local mechanical exhaust ventilation may be required. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**PERSONAL PROTECTIVE EQUIPMENT:**

**EYE PROTECTION** - Safety goggles when mixing, loading or cleaning equipment is recommended.

**CLOTHING** – Long-sleeved shirt and long pants, Shoes plus socks,

**GLOVES** – Waterproof gloves when mixing, loading or cleaning equipment is recommended.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**USER SAFETY RECOMMENDATIONS:** Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Clear yellow viscous liquid
<b>Odor:</b>	Slight amine like
<b>pH:</b>	4.74
<b>Melting Point:</b>	Not applicable
<b>Boiling Point:</b>	No data
<b>Flash Point:</b>	Will not flash
<b>Evaporation Rate:</b>	No data
<b>Flammability:</b>	Not flammable
<b>Flammability Limits:</b>	Not applicable
<b>Vapor Pressure:</b>	25 mmHg a 24°C
<b>Vapor Density:</b>	Not applicable
<b>Density:</b>	1.15 – 1.21 g/ml (9.60 – 10.10 lb/gl)*
<b>Solubility:</b>	Emulsifies
<b>Partition Coefficient:</b>	log Pow - < 3.2 @ 25°C (glyphosate)
<b>Auto-Ignition Temperature:</b>	No data
<b>Decomposition Temperature:</b>	No data
<b>Viscosity:</b>	32.77 cSt @ 24°C

\*Listed density is an approximate value and does not necessarily represent that of a specific batch.

### SECTION 10 - STABILITY AND REACTIVITY

**PRODUCT REACTIVITY:** May react with metals such as galvanized or mild steel to produce hydrogen gas which could form a highly combustible gas mixture.

**CHEMICAL STABILITY:** Stable, however may decompose if heated.

**HAZARDOUS REACTION/POLYMERIZATION:** Product will not undergo polymerization.

**CONDITIONS TO AVOID:** Avoid temperatures above (115°F, 46°C) and below 25°F (-5°C).

**INCOMPATIBLE MATERIALS:** Strong oxidizers or bases, mild and galvanized steel.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide, Nitrogen oxides, phosphorous oxides due to thermal breakdown.

### SECTION 11 - TOXICOLOGICAL INFORMATION

**ACUTE TOXICITY:**

Oral LD <sub>50</sub> (rat)	- > 5,000 mg/Kg
Dermal LD <sub>50</sub> (rat)	- > 5,000 mg/Kg
Inhalation LC <sub>50</sub> (rat)	- > 2.2 mg/L
Eye Irritation (rabbit)	- Slight to moderate
Skin Irritation (rabbit)	- Slight
Sensitization (guinea pig)	- Non-sensitizer

**CARCINOGEN STATUS:**

OSHA	- Not listed
NTP	- Not listed
IARC	- 2A*

\* Not carcinogenic in rats or mice. Listed as Category 2A by the International Agency for Research on Cancer (IARC) but expert opinion based on weight of evidence is that classification as a carcinogen is not warranted.

**DEVELOPMENTAL TOXICITY:** Effects on offspring only noted with maternal toxicity

**MUTAGENICITY:** No evidence of mutagenic effects during *in vivo* or *in vitro* studies.

### SECTION 12 - ECOLOGICAL INFORMATION

**ENVIRONMENTAL SUMMARY:** Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate.

**ENVIRONMENTAL FATE:** (Glyphosate acid)

Bioaccumulation - Whole fish BCF <1

Soil Half-life - 2 - 174 days (adsorbs strongly to soil)

Water Half-life - <7 days

**FISH TOXICITY:** (Glyphosate acid)

96 hour LC<sub>50</sub>, Rainbow trout – 5.4 mg/L

96 hour LC<sub>50</sub>, Bluegill – 7.3 mg/L

**AVIAN TOXICITY:** (Glyphosate acid)Dietary LC<sub>50</sub>, Bobwhite quail – >5,600 mg/KgDietary LC<sub>50</sub>, Mallard duck – >5,600 mg/Kg**BEE TOXICITY:** (Glyphosate acid)Contact LD<sub>50</sub> - >100 ug/bee**SECTION 13 - DISPOSAL CONSIDERATIONS**

Do not contaminate water, food or feed by storage or disposal.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state or local procedures. Emptied container retains vapor and product residue.

**CONTAINER:** Non-refillable containers: Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Refillable containers: Refill this container with glyphosate only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the re-filler.

If the container cannot be refilled, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**SECTION 14 - TRANSPORT INFORMATION**

<b>SHIPPING DESCRIPTION:</b>	Not regulated by DOT
<b>DOT HAZARD CLASS:</b>	N/A
<b>UN NUMBER:</b>	N/A
<b>DOT PACKING GROUP:</b>	III

**SECTION 15 - REGULATORY INFORMATION**

<b>CERCLA REPORTABLE QUANTITY:</b>	Not listed
<b>SARA TITLE III STATUS:</b>	
311/312 Hazard Categories –	Immediate Health
313 Toxic Chemicals –	None known
<b>CALIFORNIA PROP 65:</b>	Not listed
<b>TSCA INVENTORY:</b>	All components listed on US EPA TSCA Inventory

**SECTION 16 - OTHER INFORMATION**

HMIS HAZARD RATINGS	HEALTH	1				
	FLAMMABILITY	0				
	PHYSICAL HAZARD	1				
	4=Severe 3=Serious 2=Moderate 1=Slight 0=Minimal					

**DISCLAIMER:** The information presented herein is based on available data from reliable sources and is correct to the best of Albaugh's knowledge. Albaugh makes no warranty, express or implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions.

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA APPROVED PRODUCT LABELING (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products are regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling, and all necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling.

It is a violation of federal law to use a pesticide product in any manner not prescribed on the EPA-approved label.

**REVISED DATE:** October, 2015

**REFERENCE:** Revised IARC classification in Section 11

## MATERIAL SAFETY DATA SHEET

### CORNBELT SALVAN

Van Diest Supply Company  
P.O. Box 610  
Webster City, IA 50595  
515-832-2366

FOR CHEMICAL EMERGENCY  
SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT  
CALL CHEMTREC - DAY OR NIGHT  
1-800-424-9300

### PRODUCT IDENTIFICATION

**Common Name:** Cornbelt Salvan  
**EPA Reg. No.:** 11773-16

### INGREDIENTS

		<u>OSHA PEL</u>	<u>TLV (ACGIH)</u>
2,4-Dichlorophenoxyacetic Acid,	81.8%	N/A	10 mg/m <sup>3</sup>
2-Ethylhexyl Ester			
Inert Ingredients	18.2%		

### NATIONAL FIRE PROTECTION STANDARDS (NFPA 704)

(4=Extreme; 3=High; 2=Moderate; 1=Slight; 0=Insignificant)

Health - 2

Fire - 2

Reactivity - 0

### HAZARDOUS CHEMICALS UNDER OSHA HAZARD COMMUNICATION STANDARD

**Hazard Summary (As Defined by OSHA Hazard Comm. Standard, 29CFR 1910.1200):**

**Physical Hazards:** Combustible liquid

**Health Hazards:** Harmful if swallowed or absorbed through the skin. Causes eye irritation.

Read the entire MSDS for a more thorough evaluation of the hazards.

### PRECAUTIONARY MEASURES

**Storage:** Keep container tightly closed when not in use. This product may be stored in an unheated building. Do not store near water, food or feed.

**Ventilation:** General ventilation is adequate under normal conditions.

**Protective Clothing:** Use chemical goggles and non-permeable gloves and apron when handling product.

**Eye Protection:** Chemical goggles or face shield.

**Respiratory Protection:** None necessary under normal conditions. If respiratory protection is utilized, use MSHA/NIOSH approved respirator for organic vapors.

### HEALTH HAZARDS AND FIRST AID

**Inhalation:** Mists or vapors may cause slight nose and throat irritation.

**First Aid:** Remove to fresh air. If symptoms persist, seek prompt medical attention.