

**Safety Data Sheet**

Material Name: SureSeal® 90-8-30A Bonding Adhesive

Product #: 302124

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Section 1 - PRODUCT AND COMPANY IDENTIFICATION

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**Material Name:** SureSeal® 90-8-30A Bonding Adhesive

**Synonyms:** Solvent Based Adhesive

**Chemical Family:** Adhesive

**Product Use:** Bonding Adhesive for EPDM Single-Ply Roofing Membrane

**Restrictions on Use:** For industrial use only.

**Manufacturer Information**

Carlisle SynTec  
1285 Ritner Highway  
Carlisle, PA 17013 USA  
Phone: +1-800-479-6832  
Emergency Phone #: +1-800-424-9300 (Chemtrec)

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Section 2 - HAZARDS IDENTIFICATION

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**Classification in accordance with paragraph (d) of 29 CFR 1910.1200.**

Flammable Liquids - Category 2

Aspiration Hazard - Category 1

Skin Corrosion/Irritation - Category 2

Serious Eye Damage/Eye Irritation - Category 2A

Germ Cell Mutagenicity - Category 1B

Carcinogenicity - Category 1B

Reproductive Toxicity - Category 1B

Specific Target Organ Toxicity - Single Exposure - Category 1 ( central nervous system, kidneys, liver, respiratory system )

Specific Target Organ Toxicity - Single Exposure - Category 2 ( nervous system )

Specific Target Organ Toxicity - Single Exposure - Category 3

Specific Target Organ Toxicity - Repeated Exposure - Category 1 ( central nervous system, kidneys, nervous system, respiratory system )

Specific Target Organ Toxicity - Repeated Exposure - Category 2 ( blood, liver )

**GHS Label Elements**

Symbol(s)





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### Signal Word

Danger

### Hazard Statement(s)

Highly flammable liquid and vapor  
Causes skin irritation  
Causes serious eye irritation  
May cause genetic defects  
May cause cancer  
May damage fertility or the unborn child  
Causes damage to organs  
May cause respiratory irritation. May cause drowsiness or dizziness  
Causes damage to organs through prolonged or repeated exposure  
May be fatal if swallowed and enters airways

### Precautionary Statement(s)

#### Prevention

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
Keep container tightly closed  
Ground/Bond container and receiving equipment  
Use explosion-proof electrical/ventilating/lighting equipment  
Use non-sparking tools  
Use only outdoors or in a well-ventilated area  
Take precautionary measures against static discharge  
Do not breathe dust/fume/gas/mist/vapours/spray  
Wash thoroughly after handling  
Do not eat, drink or smoke when using this product  
Wear protective gloves/protective clothing/eye protection/face protection  
Use Personal Protective equipment as required

#### Response

In case of fire: Use appropriate media to extinguish  
If exposed: Call a POISON CENTER or doctor/physician  
IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing  
Call a POISON CENTER or doctor if you feel unwell  
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  
  
IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower  
If skin irritation occurs: Get medical advice/attention  
Take off contaminated clothing and wash before reuse  
Specific treatment (see label)  
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
Do NOT induce vomiting



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### Storage

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

Store locked up

Keep cool

### Disposal

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

### Other Hazards

None known.

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### Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

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CAS	Component Name	Percent
Proprietary	Polychloroprene	10-30
Proprietary	Phenolic Resin	1-5
1309-48-4	Magnesium oxide (MgO)	0.5-1.5
108-88-3	Toluene	30-60
64742-89-8	Solvent naphtha, petroleum, light aliphatic	15-40
67-64-1	Acetone	5-10
1330-20-7	Xylenes (o-, m-, p- isomers)	1-5

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### Section 4 - FIRST AID MEASURES

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#### Description of Necessary Measures

If exposed: Call a POISON CENTER or doctor/physician.

#### Inhalation

Remove person to fresh air and keep comfortable for breathing. Give artificial respiration if not breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

#### Skin

Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

#### Eyes

IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.



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### Ingestion

Aspiration hazard. Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. If vomiting occurs, keep head lower than hips to help prevent aspiration.

### Indication of any immediate medical attention and special treatment needed

No additional information is available.

### Most Important Symptoms/Effects

#### Acute

skin irritation, eye irritation, aspiration hazard, central nervous system damage, kidney damage, liver damage, respiratory system damage, nervous system damage, nervous system Effects.

#### Delayed

central nervous system damage, kidney damage, nervous system damage, respiratory system damage, blood Effects, liver effects.

### Note to Physicians

If adverse effects occur, treat symptomatically and supportively.

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## Section 5 - FIRE FIGHTING MEASURES

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### Extinguishing Media

#### Suitable Extinguishing Media

Dry chemical, foam or carbon dioxide. Water may be ineffective.

#### Unsuitable Extinguishing Media

Do not scatter spilled material with high-pressure water streams.

### Special Hazards Arising from the Chemical

Highly flammable. Vapors are heavier than air and may travel along the ground to distant sources and flash back.

### Hazardous Combustion Products

Oxides of carbon, hydrogen cyanide, oxides of nitrogen.

### Special Protective Equipment and Precautions for Firefighters

Wear self-contained breathing apparatus with a full facepiece and protective clothing.

### Fire Fighting Measures

Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out.

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## Section 6 - ACCIDENTAL RELEASE MEASURES

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### Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8.

### Methods and Materials for Containment and Cleaning Up

Eliminate all sources of ignition. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not touch or walk through spilled material. Prevent entry into





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waterways, sewers, basements, or confined areas. Absorb with earth, sand or other non-combustible material and transfer to container. Use non-sparking tools.

### Environmental Precautions

Avoid release to the environment.

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## Section 7 - HANDLING AND STORAGE

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### Precautions for Safe Handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, sparks, open flame, and hot surfaces - No smoking. Use non-sparking tools. Wash contaminated clothing before reuse. Do not get in eyes, on skin, or on clothing. Ground/bond container and receiving equipment. Wear protective gloves/clothing and eye/face protection. When using, do not eat, drink or smoke. Take precautionary measures against static discharge. Use only outdoors or in a well-ventilated area. Do not breathe gas, fumes, vapor, or spray. Wash thoroughly after handling. Keep out of the reach of children.

### Conditions for Safe Storage, Including any Incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Keep cool. Do not cut, puncture, or weld on or near this container. Empty containers may contain product residue.

### Incompatible Materials

Strong oxidizing agents, acids, bases.

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## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

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### Component Exposure Limits

<b>Magnesium oxide (MgO)</b>	1309-48-4	
ACGIH:	10 mg/m <sup>3</sup> TWA inhalable fraction	
NIOSH:	750 mg/m <sup>3</sup> IDLH fume	
OSHA (US):	15 mg/m <sup>3</sup> TWA fume, total particulate	
Mexico:	10 mg/m <sup>3</sup> TWA LMPE-PPT as Mg fume	
<b>Toluene</b>	108-88-3	
ACGIH:	20 ppm TWA	
NIOSH:	100 ppm TWA; 375 mg/m <sup>3</sup> TWA	150 ppm STEL; 560 mg/m <sup>3</sup> STEL
	500 ppm IDLH	
Europe:	50 ppm TWA; 192 mg/m <sup>3</sup> TWA	100 ppm STEL; 384 mg/m <sup>3</sup> STEL



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	Possibility of significant uptake through the skin	
OSHA (US):	200 ppm TWA	300 ppm Ceiling
Mexico:	50 ppm TWA LMPE-PPT; 188 mg/m <sup>3</sup> TWA LMPE-PPT	
	Skin - potential for cutaneous absorption	
<b>Acetone</b>	67-64-1	
ACGIH:	500 ppm TWA	750 ppm STEL
NIOSH:	250 ppm TWA; 590 mg/m <sup>3</sup> TWA	2500 ppm IDLH (10% LEL)
Europe:	500 ppm TWA; 1210 mg/m <sup>3</sup> TWA	
OSHA (US):	1000 ppm TWA; 2400 mg/m <sup>3</sup> TWA	
Mexico:	1000 ppm TWA LMPE-PPT; 2400 mg/m <sup>3</sup> TWA LMPE-PPT	
	1260 ppm STEL [LMPE-CT]; 3000 mg/m <sup>3</sup> STEL [LMPE-CT]	
<b>Xylenes (o-, m-, p-isomers)</b>	1330-20-7	
ACGIH:	100 ppm TWA	150 ppm STEL
Europe:	50 ppm TWA (pure); 221 mg/m <sup>3</sup> TWA (pure)	100 ppm STEL (pure); 442 mg/m <sup>3</sup> STEL (pure)
	Possibility of significant uptake through the skin	
OSHA (US):	100 ppm TWA; 435 mg/m <sup>3</sup> TWA	
Mexico:	100 ppm TWA LMPE-PPT; 435 mg/m <sup>3</sup> TWA LMPE-PPT	
	150 ppm STEL [LMPE-CT]; 655 mg/m <sup>3</sup> STEL [LMPE-CT]	

**Biological limit value**

There are no biological limit values for any of this product's components.

**Engineering Controls**

Provide local exhaust ventilation system. If necessary, use appropriate local exhaust ventilation to keep exposures below the regulated limits.

**Individual Protection Measures, such as Personal Protective Equipment**

**Eye/face protection**

Wear splash resistant safety goggles with a faceshield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.



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### Skin Protection

Wear chemical resistant clothing and rubber boots when potential for contact with the material exists. Thoroughly clean and dry contaminated clothing before reuse.

### Respiratory Protection

In case of inadequate ventilation wear respiratory protection.

### Glove Recommendations

Wear appropriate chemical resistant gloves.

## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Yellow liquid	<b>Physical State</b>	liquid
<b>Odor</b>	hydrocarbon	<b>Color</b>	yellow
<b>Odor Threshold</b>	Not available	<b>pH</b>	Not available
<b>Melting Point</b>	-48 °C	<b>Boiling Point</b>	56 - 139 °C
<b>Freezing point</b>	Not available	<b>Evaporation Rate</b>	0.6 - 0.83
<b>Boiling Point Range</b>	Not available	<b>Flammability (solid, gas)</b>	Not available
<b>Autoignition</b>	223 °C	<b>Flash Point</b>	10 °C (CC)
<b>Lower Explosive Limit</b>	1.1 %	<b>Decomposition</b>	Not available
<b>Upper Explosive Limit</b>	12.8 %	<b>Vapor Pressure</b>	6.7 mm Hg (@ 204 °C)
<b>Vapor Density (air=1)</b>	2 - 3.7	<b>Specific Gravity (water=1)</b>	0.84
<b>Water Solubility</b>	Negligible	<b>Partition coefficient: n-octanol/water</b>	Not available
<b>Viscosity</b>	2500 cps	<b>Solubility (Other)</b>	Not available
<b>Density</b>	Not available	<b>Volatility</b>	79 - 83 %

### Other Information

No information available for the product.

## Section 10 - STABILITY AND REACTIVITY

### Reactivity

No hazard expected.

### Chemical Stability

Stable under normal conditions of use.



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### Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

### Conditions to Avoid

Avoid heat, flames, sparks and other sources of ignition.

### Incompatible Materials

Strong oxidizing materials, acids, bases.

### Hazardous decomposition products

Oxides of carbon, oxides of nitrogen.

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## Section 11 - TOXICOLOGICAL INFORMATION

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### Information on Likely Routes of Exposure

#### Inhalation

Vapor or mist may cause respiratory tract irritation. May cause central nervous system effects. May cause nausea, dizziness, drowsiness and headache.

#### Skin Contact

Causes skin irritation.

#### Eye Contact

Causes serious eye irritation.

#### Ingestion

May cause gastrointestinal irritation.

### Acute and Chronic Toxicity

**Component Analysis - LD50/LC50:** The components of this material have been reviewed in various sources and the following selected endpoints are published:

Zinc oxide (1314-13-2)

Oral LD50 Rat >5000 mg/kg

Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene (68610-51-5)

Oral LD50 Rat >200 mg/kg

Dermal LD50 Rabbit >5010 mg/kg

Inhalation LC50 Rat >165 mg/L 1 h

Toluene (108-88-3)

Oral LD50 Rat 2600 mg/kg

Dermal LD50 Rabbit 12,000 mg/kg

Inhalation LC50 Rat 12.5 mg/L 4 h

Solvent naphtha, petroleum, light aliphatic (64742-89-8)

Oral LD50 Mouse 5,000 mg/kg

Dermal LD50 Rabbit 3,000 mg/kg

Acetone (67-64-1)

Inhalation LC50 Rat 50,100 mg/m<sup>3</sup> 8 h

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

Oral LD50 Rat 3500 mg/kg

Dermal LD50 Rabbit >4350 mg/kg





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Inhalation LC50 Rat 29.08 mg/L 4 h  
Water (7732-18-5)  
Oral LD50 Rat >90 mL/kg

### Immediate Effects

Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. Central nervous system damage, kidney damage, liver damage, respiratory system damage, nervous system effects.

### Delayed Effects

May cause respiratory irritation, central nervous system, kidneys, nervous system, blood. liver.

### Irritation/Corrosivity Data

Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation.

### Respiratory Sensitization

No information available for the product.

### Dermal Sensitization

No information available for the product.

### Component Carcinogenicity

<b>Polychloroprene</b>	Proprietary
IARC:	Supplement 7 [1987]; Monograph 19 [1979](Group 3 (not classifiable))
<b>Magnesium oxide (MgO)</b>	1309-48-4
ACGIH:	A4 - Not Classifiable as a Human Carcinogen
<b>Toluene</b>	108-88-3
ACGIH:	A4 - Not Classifiable as a Human Carcinogen
IARC:	Monograph 71 [1999]; Monograph 47 [1989](Group 3 (not classifiable))
<b>Acetone</b>	67-64-1
ACGIH:	A4 - Not Classifiable as a Human Carcinogen
<b>Xylenes (o-, m-, p- isomers)</b>	1330-20-7
ACGIH:	A4 - Not Classifiable as a Human Carcinogen
IARC:	Monograph 71 [1999]; Monograph 47 [1989](Group 3 (not classifiable))



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**Germ Cell Mutagenicity**

May cause genetic defects.

**Reproductive Toxicity**

May damage fertility or the unborn child.

**Specific Target Organ Toxicity - Single Exposure**

Central nervous system, kidney, liver, respiratory system. nervous system.

**Specific Target Organ Toxicity - Repeated Exposure**

Central nervous system, kidney, nervous system, respiratory system, blood, liver.

**Aspiration hazard**

Aspiration Hazard. Aspiration into the lungs may cause damage. May be fatal if swallowed and enters airways.

**Medical Conditions Aggravated by Exposure**

No data available.

### Section 12 - ECOLOGICAL INFORMATION

**Ecotoxicity**

No additional information available.

**Component Analysis - Aquatic Toxicity**

<b>Toluene</b>	108-88-3
Fish:	LC50 96 h Pimephales promelas 15.22 - 19.05 mg/L [flow-through] (1 day old); LC50 96 h Pimephales promelas 12.6 mg/L [static]; LC50 96 h Oncorhynchus mykiss 5.89 - 7.81 mg/L [flow-through]; LC50 96 h Oncorhynchus mykiss 14.1 - 17.16 mg/L [static]; LC50 96 h Oncorhynchus mykiss 5.8 mg/L [semi-static]; LC50 96 h Lepomis macrochirus 11 - 15 mg/L [static]; LC50 96 h Oryzias latipes 54 mg/L [static]; LC50 96 h Poecilia reticulata 28.2 mg/L [semi-static]; LC50 96 h Poecilia reticulata 50.87 - 70.34 mg/L [static]
Algae:	EC50 96 h Pseudokirchneriella subcapitata >433 mg/L IUCLID; EC50 72 h Pseudokirchneriella subcapitata 12.5 mg/L [static] EPA
Invertebrate:	EC50 48 h Daphnia magna 5.46 - 9.83 mg/L [static] EPA; EC50 48 h Daphnia magna 11.5 mg/L IUCLID
<b>Solvent naphtha, petroleum, light aliphatic</b>	64742-89-8
Algae:	EC50 72 h Pseudokirchneriella subcapitata 4,700 mg/L IUCLID



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<b>Acetone</b>	67-64-1
Fish:	LC50 96 h Oncorhynchus mykiss 4.74 - 6.33 mL/L; LC50 96 h Pimephales promelas 6,210 – 8,120 mg/L [static]; LC50 96 h Lepomis macrochirus 8,300 mg/L
Invertebrate:	EC50 48 h Daphnia magna 10,294 – 17,704 mg/L [static] EPA; EC50 48 h Daphnia magna 12,600 – 12,700 mg/L IUCLID
<b>Xylenes (o-, m-, p-isomers)</b>	1330-20-7
Fish:	LC50 96 h Pimephales promelas 13.4 mg/L [flow-through]; LC50 96 h Oncorhynchus mykiss 2.661 - 4.093 mg/L [static]; LC50 96 h Oncorhynchus mykiss 13.5 - 17.3 mg/L; LC50 96 h Lepomis macrochirus 13.1 - 16.5 mg/L [flow-through]; LC50 96 h Lepomis macrochirus 19 mg/L; LC50 96 h Lepomis macrochirus 7.711 - 9.591 mg/L [static]; LC50 96 h Pimephales promelas 23.53 - 29.97 mg/L [static]; LC50 96 h Cyprinus carpio 780 mg/L [semi-static]; LC50 96 h Cyprinus carpio >780 mg/L; LC50 96 h Poecilia reticulata 30.26 - 40.75 mg/L [static]
Algae:	EC50 72 h Pseudokirchneriella subcapitata 11 mg/L IUCLID (related to Aromatic hydrocarbons, C7-12, C8-rich)
Invertebrate:	EC50 48 h water flea 3.82 mg/L; LC50 48 h Gammarus lacustris 0.6 mg/L

**Persistence and Degradability**

No data available.

**Bioaccumulative Potential**

No data available.

**Mobility**

No data available.

**Other Toxicity**

No information available for the product.

### Section 13 - DISPOSAL CONSIDERATIONS

**Disposal Methods**

Dispose in accordance with all applicable regulations.



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### Section 14 - TRANSPORT INFORMATION

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**US DOT Information:**

Shipping Name: Adhesive

Hazard Class: 3

UN/NA #: UN1133

Packing Group: II

Required Label(s): 3

**TDG Information:**

Shipping Name: Adhesive

Hazard Class: 3

UN#: UN1133

Packing Group: II

Required Label(s)

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### Section 15 - REGULATORY INFORMATION

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**U.S. Federal Regulations**

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), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

<b>Toluene</b>	108-88-3
SARA 313:	1 % de minimis concentration
CERCLA:	1,000 lb final RQ; 454 kg final RQ
<b>Acetone</b>	67-64-1
CERCLA:	5,000 lb final RQ; 2,270 kg final RQ
<b>Xylenes (o-, m-, p- isomers)</b>	1330-20-7
SARA 313:	1 % de minimis concentration
CERCLA:	100 lb final RQ; 45.4 kg final RQ
TSCA 12b:	Section 4 , 1 % de minimus concentration (related to Hydrocarbons, C>4)

**SARA Section 311/312 (40 CFR 370 Subparts B and C)**

**Acute Health: Yes Chronic Health: Yes Fire: Yes Pressure: No Reactivity: No**





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### U.S. State Regulations

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

Component	CAS	CA	MA	MN	NJ	PA
Magnesium oxide (MgO)	1309-48-4	Yes	Yes	Yes	Yes	Yes
Toluene	108-88-3	Yes	Yes	Yes	Yes	Yes
Acetone	67-64-1	Yes	Yes	Yes	Yes	Yes
Xylenes (o-, m-, p- isomers)	1330-20-7	Yes	Yes	Yes	Yes	Yes

**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 reproductive/developmental effects

Toluene	108-88-3
Repro/Dev. Tox	developmental toxicity , initial date 1/1/91
	female reproductive toxicity , initial date 8/7/09

### Canadian WHMIS Ingredient Disclosure List (IDL)

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL

Magnesium oxide (MgO)	1309-48-4
	1 %
Toluene	108-88-3
	1 %
Acetone	67-64-1
	1 %

### Component Analysis - Inventory

Polychloroprene (Proprietary)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	No	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

Magnesium oxide (MgO) (1309-48-4)



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US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

Toluene (108-88-3)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

Solvent naphtha, petroleum, light aliphatic (64742-89-8)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	No	No	Yes	No	Yes	Yes	Yes

Acetone (67-64-1)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

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

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
No	No	No	No	No	Yes	No	Yes	No	No	No	Yes

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### Section 16 - OTHER INFORMATION

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#### NFPA Ratings

Health: 2 Fire: 3 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

#### Summary of Changes

New 03/15/2015

#### Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD -



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Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

### Other Information

Reasonable care has been taken in the preparation of this information; however, the manufacturer makes no warranty whatsoever including the warranty of merchantability, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental, consequential, or other such damages resulting from its use or misuse.

### Disclaimer:

Supplier gives no warranty whatsoever, including the warranties of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser shall determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental, consequential or any other damages arising out of the use or misuse of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights.







# Safety Data Sheet

## Spartan Chemical Company, Inc.

Revision Date: 27-Jan-2015

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier**

**Product Name:** ORANGE TOUGH 40  
**Product Number:** 2240  
**Recommended Use:** Cleaning agent  
**Uses Advised Against:** For Industrial and Institutional Use Only

**Manufacturer/Supplier:** Spartan Chemical Company, Inc.  
1110 Spartan Drive  
Maumee, Ohio 43537 USA  
800-537-8990 (Business hours)  
[www.spartanchemical.com](http://www.spartanchemical.com)

**24 Hour Emergency Phone Numbers:**

**Medical Emergency/Information:** 888-314-6171  
**Transportation/Spill/Leak:** CHEMTREC 800-424-9300

### 2. HAZARDS IDENTIFICATION

**GHS Classification**

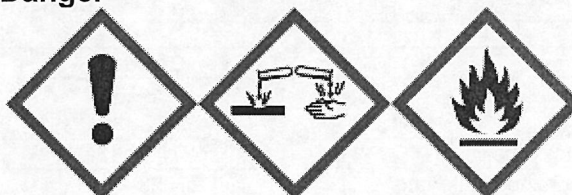
Acute toxicity - Inhalation (Dusts/Mists) Category 4  
Skin Corrosion/Irritation: Category 2  
Serious Eye Damage/Eye Irritation: Category 1  
Skin Sensitization: Category 1  
Flammable Liquids Category 3

**GHS Label Elements**

**Signal Word:**

**Symbols:**

**Danger**



**Hazard Statements:**

Harmful if inhaled.  
Causes skin irritation.  
Causes serious eye damage  
May cause an allergic skin reaction  
Flammable liquid and vapor.

**Precautionary Statements:**

<b>Prevention:</b>	Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area. Wash hands and any exposed skin thoroughly after handling. Wear eye / face protection Wear protective gloves Contaminated work clothing should not be allowed out of the workplace Keep away from heat/sparks/open flames/hot surfaces. — No smoking Keep container tightly closed Ground container and receiving equipment. Use explosion-proof electrical equipment. Use only non-sparking tools Take precautionary measures against static discharge
<b>Response:</b>	
<b>-Eyes</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.
<b>-Skin</b>	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. If skin irritation or rash occurs: Get medical attention. Wash contaminated clothing before reuse.
<b>-Inhalation:</b>	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell
<b>-Specific Treatment:</b>	See Safety Data Sheet Section 4: "FIRST AID MEASURES" for additional information.
<b>Fire:</b>	In case of fire: Use Water spray, fog or regular foam for extinction
<b>Storage:</b>	Store in a well-ventilated place. Keep cool
<b>Disposal:</b>	Dispose of contents and container in accordance with local, state and federal regulations. Do not dispose of this product by pouring on the ground, into storm sewers, waterways or other surface waters. Consult with local, federal and state authorities prior to disposal of any d-limonene containing product into the sanitary sewer system.
<b>Hazards Not Otherwise Classified:</b>	Not Applicable
<b>Other Information:</b>	<ul style="list-style-type: none"> <li>• Harmful if swallowed</li> <li>• Keep out of reach of children.</li> </ul>

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
d-limonene	5989-27-5	15-40
water	7732-18-5	10-30
nonylphenol ethoxylate	127087-87-0	10-30
triethanolamine dodecylbenzene sulfonate	27323-41-7	5-10
triethanolamine	102-71-6	3-7
hexylene glycol	107-41-5	1-5
dicarboxylic fatty acid, dipotassium salt	66375-37-9	1-5
tetrasodium ethylenediaminetetraacetate	64-02-8	1-5

Specific chemical identity and/or exact percentage of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

<b>-Eye Contact:</b>	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.
<b>-Skin Contact:</b>	Take off immediately all contaminated clothing. Rinse skin with water or shower. If skin irritation or rash occurs: Get medical attention. Wash contaminated clothing before reuse.
<b>-Inhalation:</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or physician if you feel unwell.
<b>-Ingestion:</b>	Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if you feel unwell.

**Note to Physicians:** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media:** Water spray, fog or regular foam, Dry chemical  
**Specific Hazards Arising from the Chemical:** Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.  
**Hazardous Combustion Products:** May include Carbon monoxide Carbon dioxide and other toxic gases or vapors.  
**Protective Equipment and Precautions for Firefighters:** Wear MSHA/NIOSH approved self-contained breathing apparatus (SCBA) and full protective gear. Cool fire-exposed containers with water spray.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Use personal protective equipment as required.  
**Environmental Precautions:** Do not rinse spill onto the ground, into storm sewers or bodies of water. Do not dispose of this product by pouring on the ground, into storm sewers, waterways or other surface waters. Consult with local, federal and state authorities prior to disposal of any d-limonene containing product into the sanitary sewer system.  
**Methods for Clean-Up:** Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

**7. HANDLING AND STORAGE**

**Advice on Safe Handling:** Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.  
**Storage Conditions:** Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity).

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Occupational Exposure Limits:**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH
hexylene glycol 107-41-5	Ceiling: 25 ppm	(vacated) Ceiling: 25 ppm (vacated) Ceiling: 125 mg/m <sup>3</sup>	Ceiling: 25 ppm Ceiling: 125 mg/m <sup>3</sup>

**Engineering Controls:** Provide good general ventilation. If work practices generate dust, fumes, gas, vapors or mists which expose workers to chemicals above the occupational exposure limits, local exhaust ventilation or other engineering controls should be considered.  
**Personal Protective Equipment**  
**Eye/Face Protection:** Wear splash goggles.  
**Skin and Body Protection:** Wear rubber or other chemical-resistant gloves.  
**Respiratory Protection:** Not required with expected use. If occupational exposure limits are exceeded or respiratory irritation occurs, use of a NIOSH/MSHA approved respirator suitable for the use-conditions and chemicals in Section 3 should be considered.  
**General Hygiene Considerations:** Wash hands and any exposed skin thoroughly after handling. See 29 CFR 1910.132-138 for further guidance.



### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical State:	Liquid
Color:	Orange
Odor:	Orange
pH:	8.5-9.5
Melting Point / Freezing Point:	No information available.
Boiling Point / Boiling Range:	> 100 °C / 212 °F
Flash Point:	51 °C / 124 °F ASTM D56
Evaporation Rate:	< 1
Flammability (solid, gas)	No information available.
Upper Flammability Limit:	No information available.
Lower Flammability Limit:	No information available.
Vapor Pressure:	No information available.
Vapor Density:	No information available.
Specific Gravity:	0.96
Solubility(ies):	Miscible in water
Partition Coefficient:	No information available.
Autoignition Temperature:	No information available.
Decomposition Temperature:	No information available.
Viscosity:	No information available.

### 10. STABILITY AND REACTIVITY

<b>Reactivity:</b>	This material is considered to be non-reactive under normal conditions of use.
<b>Chemical Stability:</b>	Stable under normal conditions.
<b>Possibility of Hazardous Reactions:</b>	Not expected to occur with normal handling and storage.
<b>Conditions to Avoid:</b>	Extremes of temperature and direct sunlight.
<b>Incompatible Materials:</b>	Strong oxidizing agents. Strong acids.
<b>Hazardous Decomposition Products:</b>	May include carbon monoxide, carbon dioxide (CO <sub>2</sub> ) and other toxic gases or vapors.

### 11. TOXICOLOGICAL INFORMATION

<b>Likely Routes of Exposure:</b>	Eyes, Skin, Ingestion, Inhalation.
<b>Symptoms of Exposure:</b>	
<b>-Eye Contact:</b>	Pain, redness, swelling of the conjunctiva and tissue damage. Eye contact may cause permanent damage.
<b>-Skin Contact:</b>	Pain, redness and cracking of the skin.
<b>-Inhalation:</b>	Nasal discomfort and coughing.
<b>-Ingestion:</b>	Pain, nausea, vomiting and diarrhea.
<b>Immediate, Delayed, Chronic Effects</b>	
<b>Product Information:</b>	Data not available or insufficient for classification.
<b>Target Organ Effects:</b>	Central nervous system. -Eyes. Respiratory System. -Skin.
<b>Numerical Measures of Toxicity</b>	
The following acute toxicity estimates (ATE) are calculated based on the GHS document.	
ATEmix (oral):	2301 mg/kg
ATEmix (dermal):	4814 mg/kg
ATEmix (inhalation-dust/mist):	2.6 mg/l

#### Component Acute Toxicity Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
d-limonene 5989-27-5	= 4400 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	Not Available
water 7732-18-5	> 90 mL/kg ( Rat )	Not Available	Not Available

triethanolamine dodecylbenzene sulfonate 27323-41-7	= 2320 mg/kg ( Rat )	> 23220 mg/kg ( Rabbit )	Not Available
hexylene glycol 107-41-5	= 3692 mg/kg ( Rat )	= 8560 µL/kg ( Rabbit )	> 310 mg/m <sup>3</sup> ( Rat ) 1 h
tetrasodium ethylenediaminetetraacetate 64-02-8	= 10 g/kg ( Rat )	Not Available	Not Available

**Carcinogenicity:** No components present at 0.1% or greater are listed as to being carcinogens by ACGIH, IARC, NTP or OSHA.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Chemical Name	Algae/Aquatic Plants	Fish	Toxicity to Microorganisms	Crustacea
d-limonene 5989-27-5	Not Available	0.619 - 0.796: 96 h Pimephales promelas mg/L LC50 flow-through 35: 96 h Oncorhynchus mykiss mg/L LC50	Not Available	Not Available
hexylene glycol 107-41-5	Not Available	10500 - 11000: 96 h Pimephales promelas mg/L LC50 flow-through 10000: 96 h Lepomis macrochirus mg/L LC50 static 8690: 96 h Pimephales promelas mg/L LC50 flow-through 10700: 96 h Pimephales promelas mg/L LC50 static	Not Available	2700 - 3700: 48 h Daphnia magna mg/L EC50
tetrasodium ethylenediaminetetraacetate 64-02-8	1.01: 72 h Desmodemus subspicatus mg/L EC50	41: 96 h Lepomis macrochirus mg/L LC50 static 59.8: 96 h Pimephales promelas mg/L LC50 static	Not Available	610: 24 h Daphnia magna mg/L EC50

**Persistence and Degradability:** No information available.

**Bioaccumulation:** No information available.

**Other Adverse Effects:** No information available.

## 13. DISPOSAL CONSIDERATIONS

**Disposal of Wastes:** Dispose of in accordance with federal, state and local regulations.  
**Contaminated Packaging:** Dispose of in accordance with federal, state and local regulations.  
**US EPA Waste Number:** D001

## 14. TRANSPORT INFORMATION

**DOT:**

**UN/ID No:**

UN1993

**Proper Shipping Name:**

Flammable liquids, n.o.s., (contains d-limonene)

**Hazard Class:**

3

**Packing Group:**

III

**Special Provisions:**

Gallon containers of this product meet the exception requirements of section 49 CFR 173.306 as a limited quantity and may be shipped as a limited quantity.

## 15. REGULATORY INFORMATION

**TSCA Status:** (Toxic Substance Control Act Section 8(b) Inventory)

All chemical substances in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

**SARA 313**

This product does not contain listed substances above the "de minimus" level

**SARA 311/312 Hazard Categories**

Acute Health Hazard:	Yes
Chronic Health Hazard:	No
Fire Hazard:	Yes
Sudden release of pressure hazard:	No
Reactive Hazard:	No

**California Proposition 65**

This product contains the following Proposition 65 chemicals

Chemical Name	California Proposition 65
diethanolamine - 111-42-2	Carcinogen
dioxane - 123-91-1	Carcinogen
formaldehyde - 50-00-0	Carcinogen
acetaldehyde - 75-07-0	Carcinogen

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

## 16. OTHER INFORMATION

**NFPA**

Health Hazards: 2

Flammability: 2

Instability: 0

Special: N/A

**HMIS**

Health Hazards: 2

Flammability: 2

Physical Hazards: 0

Revision Date:

27-Jan-2015

Reasons for Revision:

No information available.

**Disclaimer:**

The information provided in this Material 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



# Safety Data Sheet

5175-A-30

09-26-14



## Section 1 - Product and Company Identification

- Material Name** - Silver Seal 300 Fibered Aluminum Roof Coating
- Chemical Category** - Mixture
- Product Code** - 5175-A-30
- Product Description** - Asphalt Based Aluminium Reflective Roof Coating.
- Product Use** - Roof Coating.
- Synonyms** - Fibered Aluminum Roof Coating
- 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** - 9-26-14

## Section 2 - Hazards Identification

**Signal Word: WARNING!**

### Hazards and Precautions

*Flammable Liquid and Vapor per HCS2012. Contains Combustible Petroleum Distillates. Keep away from heat, sparks, and open flame. Keep container tightly closed when not in use. Contains Aluminum Pigment. Avoid contact with water. Contact with water can liberate highly flammable hydrogen gas. Avoid prolonged breathing of vapor and use only in adequate ventilation. Repeated and prolonged overexposure to solvent vapor may cause brain and nervous system damage. May cause skin and eye irritation. Harmful or Fatal if swallowed. Use safety glasses, gloves, and skin protection when using this product. Protect building fresh air inlets from product vapors. Do not use in drinking water or food systems. Dispose in accordance to Federal, State, and local regulations. Do not reuse empty container.*

- Prevention** Do not handle until all safety precautions have been read and understood. Avoid breathing dust, fume, gas, mist, vapours and/or spray. Keep away from flames and hot surfaces. - No smoking. Wear protective gloves-Neoprene or Nitrile, clothing -Cover Skin, and eye/face protection -Safety Glasses, .
- Response** IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
- Storage/Disposal** Store in a closed container. Store in a well-ventilated place. Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.



- Physical Form** - Liquid
- Color** - Black
- Odor** - Mild Hydrocarbon.
- Flash Point** - 105°F
- OSHA(HCS2012)** - Flammable Liquids - Category 3, Skin Corrosion/Irritation - Category 2, Serious Eye