

Safety Data Sheet

Material Name: Sure-Grip 50

Product #: 336520
336519

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name

Sure-Grip 50

Synonyms

Solvent-based mastic

Chemical Family

Mastic

Product Use

Duct sealant

Restrictions on Use

For industrial use only

Manufacturer Information

Carlisle HVAC Products
900 Hensley Lane
Wylie, TX 75098
www.carlislehvac.com

Medical Emergency:

CHEMTREC (USA): (800) 424-9300

SDS Assistance – 972-442-6545

Technical Assistance – 888-229-2199

Customer Service – 888-229-0199

Section 2 - HAZARDS IDENTIFICATION

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

Flammable Liquids – Category 3

Skin Corrosion/Irritation – Category 2

Serious Eye Damage/Eye Irritation – Category 2A

Specific Target Organ Toxicity – Single Exposure – Category 3 (Narcotic, Central Nervous System)

Specific Target Organ Toxicity – Repeated Exposure – Category 2

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 damage fertility or the unborn child

May cause drowsiness or dizziness

May cause damage to organs through prolonged or repeated exposure

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/sparks/open flame/hot surfaces - No smoking

Keep container tightly closed

Ground/Bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting equipment

Take precautionary measures against static discharge

Use only non-sparking tools

Wear protective gloves/protective clothing/eye protection/face protection

Do not breathe dust/fume/gas/mist/vapours/spray

Get medical attention if you feel unwell.

Use only outdoors or in a well-ventilated area.

Wash thoroughly after handling

Response

In case of fire: Use appropriate media to extinguish

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

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Specific treatment (see label)

Storage

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

Keep cool

Store locked up

Disposal

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

Other Hazards

No additional information available.

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Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
Trade Secret	Styrene butadiene polymer	5-10
Trade Secret	Polyphenol antioxidant	0.1-1
1314-13-2	Zinc oxide	1-5
21645-51-2	Aluminum hydroxide	5-10
67-64-1	Acetone	6-12
98-56-6	PCBTF	25-30
79-20-9	Methyl Acetate	6-12

Section 4 - FIRST AID MEASURES

Description of Necessary Measures

IF exposed or concerned: Get medical advice/attention.

Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

Remove contaminated, soaked clothing immediately and dispose of safely. Pay attention to own protection.

Inhalation

Consult a physician after significant exposure. If unconscious place in recovery position and seek medical attention. Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, have trained person administer oxygen. If respiration stops, have a trained person administer artificial respiration. GET MEDICAL ATTENTION IMMEDIATELY.

Skin

Remove/Take off immediately all contaminated clothing and wash it before reuse. Rinse skin well with water/shower. If skin irritation occurs, get medical advice/attention.

Eyes

Flush eyes with plenty of water for at least 15 minutes or more to achieve maximum effectiveness. Remove contact lenses, if present and easy to do - Continue rinsing. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, get medical advice/attention.



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Ingestion

If swallowed, immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting without medical device.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively.

Most Important Symptoms/Effects

Acute

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

Delayed

Suspected to causing cancer. May cause damage to organs through prolonged or repeated exposure: kidney, liver.

Note to Physicians

Contains organic solvents: acetone, PCBTF, methyl acetate.

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Dry chemical, alcohol-resistant foam or carbon dioxide. Water may be ineffective. Use water spray to keep containers cool.

Unsuitable Extinguishing Media

Do not use high-pressure water streams. Do not use a solid water stream as it may scatter and spread fire.

Special Hazards Arising from the Chemical

Can burn and explode easily when exposed to open flames or high heat. Do not allow run-off from fire fighting to enter drains or water courses. Heavy vapors can travel to source of ignition and flash back.

Hazardous Combustion Products

oxides of carbon, oxides of nitrogen

Special Protective Equipment and Precautions for Firefighters

Highly flammable liquid and vapor. Vapors are heavier than air and may travel a considerable distance to a source of ignition and flashback.

Fire Fighting Measures

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

Further information :

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments.

Use a water spray to cool fully closed containers.



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Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Avoid contact with skin and the eyes, Avoid breathing vapors or mists. Provide adequate ventilation. Keep away from sources of ignition. Wear personal protective clothing and equipment, see Section 8.

Methods and Materials for Containment and Cleaning Up

Remove all sources of ignition. Evacuate personnel to safe areas. Avoid breathing vapors. Ventilate affected area. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Contain liquids and prevent discharges to streams or sewers, control or stop the loss of volatile materials to the atmosphere. Soak up small spills with non-combustible absorbent material. Use non-sparking tools. Dike for later disposal.

Environmental Precautions

Avoid release to the environment. Water streams should not be directed to the liquid, as this will cause the liquid to boil and generate more vapor. Dike and collect water used to fight fire. Spills or releases should be reported, if required, to the appropriate local, state and federal agencies.

Section 7 - HANDLING AND STORAGE

Advice on protection against fire and explosion:

Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.

Precautions for Safe Handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid formation of aerosol. Keep away from heat/sparks/open flame/hot surfaces - No smoking. Take precautionary measures against static discharge. Ground/bond container and receiving equipment. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Wash contaminated clothing before reuse. **KEEP OUT OF REACH OF CHILDREN.**

Conditions for Safe Storage, Including any Incompatibilities

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

Keep cool

Store locked up

Observe label precautions

Keep away from heat and ignition sources. Keep away from incompatible materials. Do not cut, puncture, or weld on or near this container.

Electrical installations / working materials must comply with the technological safety standards.

Incompatible Materials

Strong oxidizing agents, bases, rubber, plastics, amines

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Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

Limestone	1317-65-3	
NIOSH:	10 mg/m ³ TWA total dust; 5 mg/m ³ TWA respirable dust	
OSHA (US):	15 mg/m ³ TWA total dust; 5 mg/m ³ TWA respirable fraction	
Mexico:	10 mg/m ³ TWA LMPE-PPT	20 mg/m ³ STEL [LMPE-CT]
Zinc oxide	1314-13-2	
ACGIH:	2 mg/m ³ TWA respirable fraction	10 mg/m ³ STEL respirable fraction
NIOSH:	5 mg/m ³ TWA dust and fume	10 mg/m ³ STEL fume
	15 mg/m ³ Ceiling dust	500 mg/m ³ IDLH
OSHA (US):	5 mg/m ³ TWA fume; 15 mg/m ³ TWA total dust; 5 mg/m ³ TWA respirable fraction	
Mexico:	5 mg/m ³ TWA LMPE-PPT fume; 10 mg/m ³ TWA LMPE-PPT dust	
	10 mg/m ³ STEL [LMPE-CT] fume	
Clay	1332-58-7	
ACGIH:	2 mg/m ³ TWA particulate matter containing no asbestos and <1% crystalline silica, respirable fraction	
NIOSH:	10 mg/m ³ TWA total dust; 5 mg/m ³ TWA respirable dust	
OSHA (US):	15 mg/m ³ TWA total dust; 5 mg/m ³ TWA respirable fraction	
Mexico:	10 mg/m ³ TWA LMPE-PPT	20 mg/m ³ STEL [LMPE-CT]
Silica gel	112926-00-8	
ACGIH:	10 mg/m ³ TLV-TWA	
NIOSH:	6 mg/m ³ TWA	3000 mg/m ³ IDLH
OSHA (US):	20 mppcf TWA; ((80)/(% SiO ₂)) mg/m ³ TWA)	
Mexico:	10 mg/m ³ TWA LMPE-PPT	



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Acetone	67-64-1	
ACGIH:	250 ppm TWA	500 ppm STEL
NIOSH:	250 ppm TWA; 590 mg/m3 TWA	
OSHA Z-1:	1000 ppm TWA; 2,400 mg/m3 TWA	
OSHA P0:	750 ppm TWA; 1,800 mg/m3 TWA	1000 ppm STEL; 2,400 mg/m3
PCBTF	98-56-6	
ACGIH:	None established	
OSHA:	None established	
CEL:	25 ppm – 8 hour TWA	
Methyl Acetate	79-20-9	
ACGIH:	200 ppm TWA	250 ppm STEL
NIOSH:	3100 ppm	
OSHA:	200 ppm TWA	250 ppm STEL
Mexico:	200 ppm LMPE-PPT; 610 mg/m3 LMPE-PPT	250 ppm STEL; 760 mg/m3 STEL

Biological limit value

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

Engineering Controls

Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection

Safety glasses or goggles are recommended when there is a potential for eye contact. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin Protection

Wear appropriate work clothing. Wear protective shoes.

Respiratory Protection

In case of inadequate ventilation wear respiratory protection. Appropriate respirator selection should be made by a qualified professional as part of a comprehensive respiratory protection program as described in 29 CFR 1910.134.

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Glove Recommendations

Wear appropriate chemical resistant gloves.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	gray mastic	Physical State	solid
Odor	hydrocarbon odor	Color	gray
Odor Threshold	Not available	pH	Not available
Melting Point	-95.35 - -93.9 °C (-139.63 - -137.0 °F)	Boiling Point	139 °C (282 °F)
Freezing point	Not available	Evaporation Rate	5.6 – 6.06
Boiling Point Range	Not available	Flammability (solid, gas)	Not available
Autoignition	454 °C (849.2 °F)	Flash Point	-13 °C (8.6 °F)
Lower Explosive Limit	0.9 %	Decomposition	Not available
Upper Explosive Limit	16 %	Vapor Pressure	108 - 185 mmHg
Vapor Density (air=1)	0.79 – 0.792	Specific Gravity (water=1)	Not available
Water Solubility	Negligible	Partition coefficient: n-octanol/water	Not available
Viscosity	450000 cps	Solubility (Other)	Hydrocarbons
Density	1 - 1.2 (relative)	VOC	<10 g/L
Volatility by Weight	30 - 40 %		

Other Information

No additional information available.

Section 10 - STABILITY AND REACTIVITY

Reactivity

Reacts with oxidizers.

Chemical Stability

Stable under normal conditions of use.



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Possibility of Hazardous Reactions

Thermal decomposition products may include oxides of carbon. Chlorine and fluorine containing gases can be produced. Vapours may form explosive mixture with air. Hazardous polymerization will not occur.

Conditions to Avoid

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

Incompatible Materials

Strong oxidizing agents, acids, bases

Hazardous decomposition products

Oxides of carbon, oxides of nitrogen

Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation

May cause respiratory irritation.

Skin Contact

Causes skin irritation.

Eye Contact

Causes serious eye damage/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:

Polyphenol antioxidant (Trade Secret)

Oral LD50 Rat >200 mg/kg

Dermal LD50 Rabbit >5010 mg/kg

Inhalation LC50 Rat >165 mg/L 1 h

Zinc oxide (1314-13-2)

Oral LD50 Rat >5000 mg/kg

Aluminum hydroxide (21645-51-2)

Oral LD50 Rat >5000 mg/kg

Acetone (64742-89-8)

Oral LD50 Rat 5800 mg/kg

Dermal Guinea pig >7246 mg/kg

Inhalation LC50 Rat 32000 ppm 4 h



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PCBTf (98-56-6)

- Acute Oral LD50: >6.8 g/kg (rat)
- Acute Dermal LD50: >2.7 g/kg (rabbit)
- Acute Inhalation LC50: > 4479 ppm (rat)
- Primary Skin Irritation non-irritating (rabbit)
- Primary Skin Irritation non-irritating (rabbit)

Methyl acetate (79-20-9)

- Oral LD50 Rat 6482 g/kg
- Dermal LD50 Rabbit >2000 mg/kg
- Inhalation LC50 Rat >49 mg/L 4 hr

Immediate Effects

Causes skin irritation. Drying, cracking or inflammation of skin. Causes serious eye irritation. Symptoms of exposure may include: eye irritation, burning sensation, pain, watering, and/or change of vision. May cause respiratory irritation. Symptoms of exposure may include: Central nervous system depression with nausea, dizziness, headache, stupor, uncoordinated or strange behavior or unconsciousness. May cause burns to gastrointestinal irritation. May be harmful by ingestion.

Delayed Effects

May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure: kidney, liver.

Irritation/Corrosivity Data

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

Respiratory Sensitization

No data available.

Dermal Sensitization

It may cause sensitization in some individuals.

Component Carcinogenicity

Clay	1332-58-7
ACGIH:	A4 - Not Classifiable as a Human Carcinogen
DFG:	Category 3B (could be carcinogenic for man)
Silica gel	112926-00-8
IARC:	Monograph 68 [1997] (Group 3 (not classifiable))
Acetone	67-64-1
ACGIH:	A4 - Not Classifiable as a Human Carcinogen



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PCBTF	98-56-6
ACGIH:	A4 - Not Classifiable as a Human Carcinogen (related to Fluorides)

Germ Cell Mutagenicity

No data available.

Reproductive Toxicity

May damage fertility or the unborn child.

Specific Target Organ Toxicity - Single Exposure

Central nervous system, respiratory system

Specific Target Organ Toxicity - Repeated Exposure

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

Aspiration hazard

No data available.

Medical Conditions Aggravated by Exposure

No data available.

Additional Data

No additional information available.

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity

Avoid release to the environment.

Component Analysis - Aquatic Toxicity

Polyphenol antioxidant	Trade Secret
Fish:	LC50 96 h Oncorhynchus mykiss >0.2 mg/L [semi-static]
Algae:	EC50 72 h Pseudokirchneriella subcapitata >0.2 mg/L IUCLID
Invertebrate:	EC50 48 h Daphnia magna >0.2 mg/L IUCLID
Acetone	67-64-1
Fish:	LC50 96 h Oncorhynchus mykiss 4.74 - 6.33 mL/L; LC50 96 h Pimephales promelas 6210 - 8120 mg/L [static]; LC50 96 h Lepomis macrochirus 8300 mg/L
Invertebrate:	EC50 48 h Daphnia magna 10294 - 17704 mg/L [static] EPA; EC50 48 h Daphnia magna 12600 - 12700 mg/L IUCLID



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PCBTF	98-56-6
Invertebrate:	EC50 48 h Daphnia magna 3.68 mg/L IUCLID
Methyl acetate	79-20-9
Fish:	LC50 96 h Pimephales promelas 295 - 348 mg/L [flow-through]; LC50 96 h Brachydanio rerio 250 - 350 mg/L [static]
Algae:	EC50 72 h Desmodesmus subspicatus >120 mg/L IUCLID
Invertebrate:	EC50 48 h Daphnia magna 1026.7 mg/L IUCLID

Persistence and Degradability

No information available for the product.

Bioaccumulative Potential

No information available for the product.

Mobility

No information available for the product.

Other Toxicity

No additional information available.

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods

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

Section 14 - TRANSPORT INFORMATION

US DOT Information:

Shipping Name: Adhesives

Hazard Class: 3

UN/NA #: UN1133

Packing Group: II

Required Label(s): Red caution label required (limited quantity if < 0.3 gal)

IATA Information:

Shipping Name: ADHESIVES

Hazard Class: 3

UN#: UN1133



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**Packing Group: II
Required Label(s): 3**

**TDG Information:
Shipping Name: ADHESIVES
Hazard Class: 3
UN#: UN1133
Packing Group: II
Required Label(s):**

**Mexico Transport Information
Shipping Name: ADHESIVES
Hazard Class 3
UN#: UN 1231
Packing Group II
Required Labels(s):**

**IMDG
Shipping Name: ADHESIVES
Hazard Class 3
UN#: UN 1231
Packing Group II
Marine pollutant: No
Required Labels(s):**

Section 15 - REGULATORY INFORMATION

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.

Acetone	67-64-1
CERCLA:	5000 lb final RQ; 2270 kg final RQ
PCBTF	98-56-6
TSCA 12b:	Section 4 , 1 % de minimus concentration

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
Limestone	1317-65-3	No	Yes	Yes	Yes	Yes
Zinc oxide	1314-13-2	Yes	Yes	Yes	Yes	Yes
Clay	1332-58-7	No	Yes	Yes	Yes	Yes
Silica gel	112926-00-8	No	Yes	Yes	Yes	Yes
Acetone	108-88-3	Yes	Yes	Yes	Yes	Yes
PCBTF	98-56-6	Yes	No	Yes	Yes	Yes
Methyl Acetate	79-20-9	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 cancer.

PCBTF	98-56-6
Cancer	Cancer , initial date 06/28/2019

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 SDSs 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

Zinc oxide	1314-13-2
	1 %
Acetone	67-64-1
	1 %
Methyl acetate	79-20-9
	1 %

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61). This product does not contain any chemicals listed under the U.S. Clean Air Act



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Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F). The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489):

Acetone	67-64-1
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Clean Water Act

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

Massachusetts Right To Know

Acetone	67-64-1
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Pennsylvania Right To Know

Acetone	67-64-1
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Component Analysis - Inventory

Polyphenol antioxidant (Trade Secret)

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	No

Limestone (1317-65-3)

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

Zinc oxide (1314-13-2)

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

Clay (1332-58-7)

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

Aluminum hydroxide (21645-51-2)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX



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Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes
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Silica gel (112926-00-8)

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

Acetone (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	Yes	No	Yes	No	Yes	Yes	Yes

PCBTf (98-56-6)

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

Methyl Acetate (79-20-9)

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

Section 16 - OTHER INFORMATION

NFPA Ratings

Health: 2 Fire: 3 Reactivity: 0

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

HMIS Ratings

Health: 2 Fire: 3 Reactivity: 1

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

Summary of Changes

Revision Date: May 19, 2020

Revision Note: New SDS

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



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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 - 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

Disclaimer:

The information contained herein is based upon data and information available to us, and reflects our best professional judgment. This product may be formulated in part with components purchased from other companies. No warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of such data or information. The results to be obtained from the use thereof, or that any such use does not infringe any patent, since the information contained herein may be applied under conditions of use beyond our control and with which we may be unfamiliar, we do not assume responsibility for the results of such application. This information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the material for his particular use.