

SAFETY DATA SHEET



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Version 2017

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Silencure

Other Means of Identification: SDS #: F1326

Recommended Use: Concrete Curing and Sealing Compound

Restrictions on Use: No Data

Supplier of the Safety Data Sheet including Address:

ChemMasters Inc.
300 Edwards Street
Madison, OH 44057

Telephone Numbers

Company Phone Number

Phone: 800-486-7866, 440-428-2105

Fax: 440-428-7091

Emergency Telephone : ChemTrec 800-424-9300 (United States & Canada), International Call: 1-703-527-3887

2. HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards

Flammable Liquid, may cause respiratory irritation, may cause drowsiness or dizziness, may be fatal if swallowed and enters airways toxic to aquatic life with long lasting effects.

Target Organs: Eyes, Skin, Respiratory System, Central Nervous System

GHS Classification

Flammable Liquids Category 3

Hazardous to the Aquatic Environment – Long-Term (Chronic) Hazard Category 2

Specific target organ toxicity – single exposure Category 3

Aspiration Hazard Category 1

Acute Toxicity, Inhalation Category 4

Label Elements, including precautionary statements

Pictograms:



Signal Word: Danger

Hazard Statements:

H226 Flammable Liquid and Vapour

H332 Harmful if inhaled

H335 May cause respiratory irritation

- H336 May cause drowsiness or dizziness
- H304 May be fatal if swallowed and enters airways
- H411 Toxic to aquatic life with long lasting effects

Precautionary Statement(s)

Prevention:

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
- P233 Keep container tightly closed.
- P240 Ground and bond the container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting equipment.
- P242 Use non-sparking tools.
- P243 Take action to prevent static discharges.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P271 Use only outdoors or in a well-ventilated area.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response:

- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
- P304+P340+P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
- P331 Do NOT induce vomiting.
- P370+P378 In case of fire use, dry chemical, alcohol resistant foam, halon or carbon dioxide to extinguish.
- P391 Collect spillage

Storage: P403+P235+P233 Store in a well-ventilated place. Keep cool. Keep container tightly closed.
 P405 Store Locked Up

Disposal: P501 Dispose of contents/container in accordance with local/regional/national regulations.

Hazards not otherwise classified: Repeated exposure may cause skin dryness and cracking.
 Product may cause eye irritation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component

Solvent Naphtha (Petroleum), Light Aromatic	CAS# 64742-95-6	45-46%
Petroleum Hydrocarbon Solvent	CAS# 8052-41-3	14-15%
Acrylic Co-Polymer - Non-Hazardous	CAS# Proprietary	19-20%
Alkoxysilane Mixture	CAS# Proprietary	19-20%
Additive – Proprietary		≤1.0%

Ingredients not listed on this safety data sheet are considered to be non-hazardous according to OSHA 1910.1200 or are not present above their cutoff levels. Where a range is displayed, the exact percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First Aid Measures

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

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

Eye Contact: 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 or attention.

Ingestion: IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth if conscious.

Skin Contact: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash off with soap and plenty of water. If skin irritation occurs: Get medical advice or attention.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Alcohol-resistant foam, dry chemical, halon or carbon dioxide

Specific Hazards Arising from the Chemical

In a fire or if heated a pressure increase will occur and the container may burst.

Vapors are flammable and heavier than air. Vapors may travel across the ground and reach remote ignition sources causing a flashback fire danger.

Hazardous Combustion Products: Carbon dioxides & Carbon monoxide

Protective Equipment and Precautions for Firefighters

Wear self-contained breathing apparatus and full protective gear for firefighting.

Further Information: Use water spray to cool unopened containers. See Section 7 for safe handling and storage

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Use personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains or waterways.

Methods and Material for Containment and Cleaning Up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond the container and receiving equipment. Take measures to prevent the buildup of electrostatic charge. Use non-sparking tools. Wash hands and skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

Conditions for Safe Storage, Including any Incompatibilities

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

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

Ethyl Alcohol is formed upon contact with water or humid air. Provide adequate ventilation to control exposures within OSHA Guidelines: TWA 1000 ppm and ACGIH TLV: STEL 1000 ppm.

Component Exposure Limits

Solvent Naphtha (Petroleum), Light Aromatic, CAS# 64742-95-6: RCP-TWA 19 ppm/ 100 mg/m³ Total Hydrocarbon, Exxon Mobil.

Components of Solvent Naphtha (Petroleum), Light Aromatic, CAS# 64742-95-6:

1,2,4-Trimethylbenzene, CAS# 95-63-6, TWA 25 ppm ACGIH

Xylene, Mixed Isomers, CAS# 1330-20-7, TWA 100 ppm ACGIH, STEL 150 ppm ACGIH, PEL 100 ppm OSHA Z1

Cumene, CAS# 98-82-8, TWA 50 ppm ACGIH, PEL 50 ppm OSHA Z1

Petroleum Hydrocarbon Distillates, CAS# 8052-41-3: ACGIH TLV TWA: 100 ppm 8 hours; OSHA PEL: TWA 500 ppm; NIOSH REL: TWA 350 mg/m³, NIOSH Ceiling: 1800 mg/m³

Components of Petroleum Hydrocarbon Distillates, CAS# 8052-41-3:

Ethyl Benzene, CAS# 100-41-4: ACGIH TLV: TWA 20 ppm

N-Nonane, CAS# 111-84-2: ACGIH TLV: TWA 200 ppm

Appropriate Engineering Controls

Local Ventilation: Recommended

General Ventilation: Recommended

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection: Use proper protection – Safety Glasses as a minimum

Skin and Body Protection: Wash at mealtime and end of shift. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc.). Use chemical protective gloves as a minimum and wash skin promptly upon any skin contact.

Respiratory Protection: Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice. Wash hands before & after breaks and work day.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State: Liquid

Appearance: Clear

Color: Colourless

Odor: Petroleum Solvent Odor

Odor threshold: No Data

<u>Property</u>	<u>Value</u>	<u>Remarks – Method</u>
Vapor Pressure	Not Available	
Vapor Density	Not Available	
Relative Density	Not Available	
pH:	Not Relevant	
Melting/Freezing Point	Not Relevant	
Solubility	Not Available	
Evaporation Rate	Not Available	
Flash Point	42 Degrees C (108 Degree F)	PM (D93) Closed Cup
Flammability Limits	Lower Limit: 0.9% Upper Limit: 6.2%	
Flammability (Solid, gas)	Not Relevant	

Auto Ignition Temperature	Not Available	
Initial Boiling Point/Boiling Range	Not Available	
Decomposition Temperature	Not Available	
Viscosity	Not Available	
Specific Gravity	0.89-0.90 at 25 Degrees C	7.46 +/- 0.01 Lbs./gal.

10. STABILITY AND REACTIVITY

Chemical Stability: Stable

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Heat, Flames and Sparks

Incompatible Materials: Keep away from strong oxidizing agents, strong alkalis and strong acids.

Hazardous Decomposition Products: Hazardous decomposition products formed under fire conditions, Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Inhalation, Skin Contact, Eye Contact, Ingestion

Symptoms of Exposure:

Product may cause eye and skin irritation.

Product may cause headache, dizziness, anesthesia, drowsiness, unconsciousness and other central nervous system effects.

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure

Repeated Exposure may cause skin dryness and cracking.

Aspiration Hazard: May cause chemical pneumonitis (aspiration of liquid) if swallowed and enters airways.

Carcinogenicity:

Product is not expected to be carcinogenic.

Contains the component Cumene, CAS# 98-82-8 at $\leq 0.4\%$. IARC classifies Cumene as a 2B: Possibly carcinogenic to humans. Tumors produced in animals are not considered relevant to humans.

Other Chronic Effects:

Chronic over-exposure to this material may cause systemic toxicity, including adverse reactions to the following: kidney, liver, spleen, adrenals, lungs, skin, blood, testes, cardiovascular and nervous systems.

Numerical Measures of Toxicity

Solvent Naphtha (Petroleum), Light Aromatic: LD50 Oral Rat: >3,000 mg/kg; LD50 Dermal Rabbit >3,160 mg/kg, Inhalation, Low toxicity: LC50 greater than near-saturated vapor concentration.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Material is expected to be toxic to aquatic organisms. It may cause long-term adverse effects in the aquatic environment.

Acute Toxicity: Fish

Components:

Solvent Naphtha (Petroleum), Light Aromatic: LC50 Fathead Minnow, 96 hr, 8.2 mg/l

1,2,4-Trimethylbenzene: LC50 Fathead Minnow, 96 hr. 7.72 mg/l

Xylenes: No Data

Cumene: LC50 Fish, 96 hr. 4.918 mg/l

Acute Toxicity: Invertebrates

Components:

Solvent Naphtha (Petroleum), Light Aromatic: EC50 Water Flea, 48 hr, 4.5 mg/l

1,2,4-Trimethylbenzene: EC50 Water Flea, 48 hr, 3.6 mg/l

Xylenes: No Data

Cumene: EC50 Water Flea, 48 hr, 2.14 mg/l

Chronic Toxicity: Fish

Components:

Solvent Naphtha (Petroleum), Light Aromatic: No Data

1,2,4-Trimethylbenzene: No Data

Xylenes: No Data

Cumene: NOEC Zebra Fish, 28 days, 0.38 mg/l

Chronic Toxicity: Invertebrates

Components:

Solvent Naphtha (Petroleum), Light Aromatic: EC50 Water Flea, 21 days, 10 mg/l

1,2,4-Trimethylbenzene: No Data

Xylenes: No Data

Cumene: NOEC Water Flea, 21 days, 0.35 mg/l

Chronic Toxicity to Aquatic Plants

Components:

Solvent Naphtha (Petroleum), Light Aromatic: EC50 Selenastrum capricornutum, 72 hr., 3.1 mg/l

1,2,4-Trimethylbenzene: EC50 Alga, 96 hr., 2.356 mg/l

Xylenes: No Data

Cumene: NOEC Scenedesmus subspicatur, 72 hr., 1.49 mg/l

Persistence and Degradability: Solvent portion is expected to be readily biodegradable.

Bioaccumulation: No Data Available

Mobility: This material has a low solubility in water. The solvent portion has high volatility (tendency to move from water to air) and will partition rapidly to the air. Therefore chronic aquatic toxicity is not expected, however a significant spill may cause long-term adverse effects in the aquatic environment.

Other Adverse Effects: No Data Available

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes: Under RCRA 40 CFR 261 this material is a hazardous waste. Dispose of in accordance with all federal, state, and local regulations. If uncertain of local requirements, contact the proper environmental authorities for information on waste disposal in your area. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated Packaging: Dispose of as unused product.

14. TRANSPORT INFORMATION

D.O.T.

UN1263, PAINT, 3, III

Packaging Exception for 1 gal cans, 5 gallon pails & 55 gallon drums, *Ground Shipments Only.*

49 CFR 173.120(b)(2) A flammable liquid with a flash point at or above 38°C (100°F) that does not meet the definition of any other hazard class may be re-classed as a combustible liquid.

This product has a flash point at or above 38°C (100°F). It is therefore excepted from labeling requirements ..., specification packaging ..., and shipping papers... **if shipped in non-bulk packaging. Non-bulk packaging** means a packaging which has a maximum capacity of 450 Liters (119 gallons) or less as a receptacle for a liquid. Therefore, when shipped by ground in non-bulk packaging (\leq 119 gal.), this item is not DOT regulated.

This provision does not apply to transportation by vessel or air.

I.A.T.A.

UN1263, PAINT, 3, III

I.M.D.G.

UN1263, PAINT, 3, III

Marine Pollutant: Yes

15. REGULATORY INFORMATION

International Inventories

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

US Federal Regulations

SARA 302: None

SARA 311/312 Hazard Categories: Acute: Yes, Fire: Yes, Chronic: Yes

SARA 313 Hazard Categories:

<u>CAS Number</u>	<u>Component Name</u>	<u>Wt. %</u>
98-82-8	Cumene	\leq 0.4%
1330-20-7	Xylenes	\leq 1.0%
95-63-6	1,2,4-Trimethylbenzene	\leq 13%

CWA (Clean Water Act): This product contains petroleum hydrocarbons and may be subject to regulation by Section 311 of the Clean Water Act and the Oil Pollution Act. Releases of the product into or leading to surface waters must be reported to the National Response Center at 1-800-424-8802.

Supplemental State Compliance Information

California:

Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm. **Cumene – Carcinogen; Ethyl Benzene - Carcinogen**

This product may contain trace amounts of other components known to the State of California to cause cancer, birth defects or other reproductive harm.

States Right To Know:

1,2,4-Trimethylbenzene, CAS# 95-63-6: New Jersey, Illinois, Minnesota, Pennsylvania, Rhode Island, Massachusetts.

Cumene, CAS# 98-82-8: New Jersey, Illinois, Minnesota, Pennsylvania, Rhode Island.

Xylenes, CAS# 1330-20-7: New Jersey, Illinois, Michigan, Minnesota, Pennsylvania, Rhode Island.

Ethyl Benzene, CAS#: 100-41-4: New Jersey, Illinois, Pennsylvania.

N-Decane, CAS# 124-18-5: Pennsylvania

N-Nonane, CAS# 111-84-2: Pennsylvania

N-Octyltriethoxysilanes, CAS# 2943-75-1: Pennsylvania, New Jersey

U.S. EPA Label Information: No Data

16. OTHER INFORMATION

HMIS Classification:

Health hazard: 1*
Flammability: 2
Physical Hazards: 0

NFPA Rating:

Health hazard: 1
Fire: 2
Reactivity Hazard: 0

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Revision Note: Reviewed and Updated

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Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide 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