

# SAFETY DATA SHEET



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## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name: Silencure-A**

**Other Means of Identification**

**SDS #: F1327**

**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**

Highly Flammable Liquid, Suspected of Causing Cancer, Toxic to aquatic life with long lasting effects, Causes serious eye irritation, May cause respiratory irritation, May cause drowsiness or dizziness, May be harmful if swallowed, May be harmful if swallowed and enters airways. Causes skin irritation.

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

**GHS Classification**

Flammable Liquids Category 2

Carcinogenicity Category 2

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

Eye Damage/Irritation Category 2A

Skin Corrosion/Irritation Category 2

Specific target organ toxicity – single exposure Category 3

Aspiration Hazard Category 2

Acute Toxicity, Inhalation Category 4

Acute Toxicity, Oral Category 5

**Label Elements, including precautionary statements**



## Signal Word: Danger

### Hazard Statements:

H225	Highly Flammable Liquid and Vapour
H351	Suspected of Causing Cancer
H411	Toxic to aquatic life with long lasting effects
H303	May be harmful if swallowed
H305	May be harmful if swallowed and enters airways
H315	Causes skin irritation
H319	Causes serious eye irritation
H333	May be harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness

### Precautionary Statement(s)

#### Prevention:

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
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 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.
P264	Wash hands and skin thoroughly after handling.
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:

P308+P313	If exposed or concerned: Get medical advice/attention
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P332+P313	If skin irritation occurs: Get medical advice or attention.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice or attention.
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.
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378	In case of fire use, "alcohol resistant" foam, dry chemical, 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.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Component**

Acetone	CAS# 67-64-1	37-38%
Petroleum Hydrocarbon	CAS# 64742-95-6	22-23%
N-Octyltriethoxysilane, CAS# 2943-75-1 & Branched Octyltriethoxysilanes		20%
Acrylic Polymer	Non-Hazardous	19-20%

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.

**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.

**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 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**

#### **Component Exposure Limits**

Acetone, CAS# 67-64-1: UK. EH40 WEL TWA 500 ppm 8 hours, STEL 1500 ppm 15 minutes.

Petroleum Hydrocarbon, CAS# 64742-95-6: OSHA 100 ppm TWA

**Ethyl Alcohol is formed when silane comes in contact with water or humid air.** Provide adequate ventilation to control exposures within OSHA Guidelines: TWA 1000 ppm and ACGIH TLV: STEL 1000 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:** 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	-17 Degrees C (1 Degree F)	Tag Closed Cup
Flammability Limits	Lower Limit: 2.0% Upper Limit: 13.0%	
Flammability (Solid, gas)	Not Relevant	
Auto Ignition Temperature	Not Available	
Initial Boiling Point/Boiling Range	56 Degrees C	
Decomposition Temperature	Not Available	
Viscosity	Not Available	
Specific Gravity	0.87 at 25 Degrees C	7.3 Lbs./gal. +/- 0.01

## 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:**

May cause drowsiness or dizziness if inhaled. May cause respiratory irritation. Causes serious eye irritation. Causes skin irritation.

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

**Eye, Skin & Respiratory System Irritation and Central nervous system depression.**

**Repeated Exposure may cause skin dryness and cracking.**

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

**Carcinogenicity:**

Petroleum Hydrocarbon (CAS#64742-94-5): Contains an ingredient, **Cumene** which is classified by IARC as "possibly carcinogenic to humans" (Group 2B).

**Numerical Measures of Toxicity**

**Acetone:** LD50 Oral Rat: 5,800 mg/kg; LC50 Inhalation Rat: 50,100 mg/m<sup>3</sup> - 8 hrs.; LD50 Dermal Guinea pig: 7,426 mg/kg

**1,2,4-Trimethylbenzene:** LD50 Oral Rat: 5,000 mg/kg; LC50 Inhalation Rat: 18 mg/l 4 hrs.;

**Cumene:** LD50 Oral Rat: 5,000 mg/kg; LC50 Inhalation Mouse: 10 mg/l 7 hrs.; LD50 Dermal Rabbit: 12,300 mg/kg.

**Xylene:** LD50 Oral Rat: 4,300 mg/kg; LC50 Inhalation Rat: 4,550 mg/l 4 hrs.;

LD50 Dermal Rabbit: 14,100 mg/kg.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** Material is expected to be harmful to aquatic organisms. 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

**Persistence and Degradability:** No Data Available

**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

### **DOT**

UN1263, PAINT, 3, II

### **IATA**

UN1263, PAINT, 3, II

### **IMDG**

UN1263, PAINT, 3, II

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 (40 CFR 370)

**SARA 313 Hazard Categories:**

<u>CAS Number</u>	<u>Component Name</u>	<u>Wt. %</u>
98-82-8	Cumene	≤0.3%
95-63-6	1,2,4-Trimethylbenzene	≤7.0%
1330-20-7	Xylenes	≤0.4%

**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**

### **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, Pennsylvania.

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

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

**U.S. EPA Label Information:** No Data

**Canada**

WHMIS Classification: Class D2B & B2 (Toxic & Flammable)

Symbol: Stylized T & Flammable



**16. OTHER INFORMATION**

**HMIS Classification:**

Health hazard: 2\*  
Flammability: 3  
Physical Hazards: 0

**NFPA Rating:**

Health hazard: 2  
Fire: 3  
Reactivity Hazard: 0

**Issuance Date: October 6, 2014**

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**Revision Note: GHS**

**Date of Previous Version: July 17, 2007**

**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**