

# SAFETY DATA SHEET



Issue Date: January 18, 2021

Revision Date: N/A

Version: 2021V1.0

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Certi-Vex Penseal 244 O/W AIM

**Other Means of Identification**

**SDS #:** 20-034V

**Recommended Use:** Concrete Curing 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

## 2. HAZARDS IDENTIFICATION

**Emergency Overview**

**OSHA Hazards:**

**Highly flammable liquid and vapour. Causes Skin Irritation. Causes eye irritation.**

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

**GHS Classification:**

**Flammable Liquid- Category 2**

**Skin Irritation- Category 2**

**Eye Irritation- Category 2B**

**Specific target organ toxicity – single exposure Category 3**

**Label Elements, including precautionary statements**

**Pictograms:**



**Signal Word:** Danger

**Hazard Statements:**

**H225** Highly Flammable Liquid and Vapour.

**H332** Harmful if inhaled

- H320 Causes eye irritation
- H335 May cause respiratory irritation
- H336 May cause drowsiness or dizziness
- H315 Causes skin irritation.

**Precautionary Statement(s)**

**Prevention:**

- P210 Keep away from heat/sparks/open flames/hot surfaces. 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 fume/mist/vapours/spray.
- P264 Wash hands and skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.

**Response:**

- P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
- P330 Rinse mouth.
- P304+P340+P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
- 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.

**Storage:**

- P403+P233 Store in a well-ventilated place. 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: may cause skin irritation.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Component**

Triethoxyoctylsilane	CAS#: 2943-75-1	45-47%
Acetone	CAS#: 67-64-1	43-45%
Petroleum Hydrocarbon Solvent	CAS#: 8052-41-3	7-8%
N-Butyl Acetate	CAS#: 123-86-4	1.5%

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. If not breathing, give artificial respiration. Consult a physician.

**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. If conscious, rinse mouth with water.

**Skin Contact:** Wash off with soap and plenty of water. If skin irritation occurs, get medical advice or attention.

## 5. FIRE-FIGHTING MEASURES

### **Suitable Extinguishing Media**

Material is combustible. Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide for the surrounding fire.

**Specific Hazards Arising from the Chemical:** Do not use high volume water jet.

**Hazardous Combustion Products:** Carbon oxides, Silicon oxides, formaldehyde

### **Protective Equipment and Precautions for Firefighters**

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

**Further Information:** See Section 7 for safe handling and storage.

## 6. ACCIDENTAL RELEASE MEASURES

### **Personal Precautions, Protective Equipment and Emergency Procedures**

In case of spill wear appropriate personal protective equipment during any cleanup and response activities. Avoid skin contact and inhalation. Non-sparking tools should be used.

### **Environmental Precautions**

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

### **Methods and Material for Containment and Cleaning Up**

Dike and contain spill with inert absorbent materials. Soak up with inert material and keep in suitable, closed containers for disposal. Dispose of in accordance with specified local/regional/national/international regulations for disposal.

## 7. HANDLING AND STORAGE

### **Precautions for Safe Handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

### **Conditions for Safe Storage, Including any Incompatibilities**

**General information:** Keep container tightly closed in a dry and well ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep away from heat. Keep from freezing. Store this product above 50 degrees F/10 degrees C and below 95 degrees F/35 degrees C.

**Safe Storage:** No Additional Data

**Incompatibilities:** Strong oxidizing agents, explosives, gases

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines:

#### Component Exposure Limits

**Acetone, CAS# 67-64-1:** ACGIH TLV TWA: 1200 mg/m<sup>3</sup>, OSHA PEL TWA 2400 mg/m<sup>3</sup>

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

#### 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

Triethoxyoctylsilane, CAS# 2943-75-1:

No workplace control parameters

n-Butyl acetate, CAS# 123-86-4: ACGIH TLV:TWA 50 PPM

Components of decomposition products:

Ethanol, CAS# 64-17-5: ACGIH STEL: 1000 ppm, NIOSH REL TWA 1000 ppm, OSHA Z-71 1000ppm

### 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 flame retardant 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

**Appearance:** Liquid

**Color:** Colorless to pale yellow

**Odor:** Paint Solvent

**Odor threshold:** No Data

#### Property

Vapor Pressure

#### Value

184 mmHg@ 68 Degrees F

Vapor Density

2

Relative Density

.836

pH:

Not Available

Melting/Freezing Point

Not Available

Solubility

Not Available

Evaporation Rate

7.7

Flash Point

-17 Degrees C/ 1.4 Degrees F

#### Remarks – Method

Closed Cup

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Flammability Limits	Lower 2.5%, Upper 12.8%
Flammability (Solid, gas)	Not Relevant
Auto Ignition Temperature	465 Degrees C/869 Degrees F
Initial Boiling Point/Boiling Range	56 Degrees C
Viscosity	1cSt

## 10. STABILITY AND REACTIVITY

### **Chemical Stability:**

This product is chemically stable under recommended storage conditions.

### **Possibility of Hazardous Reactions:**

Combustible Liquid. Vapors may form explosive mixture with air. Can react with strong oxidizing agents. When heated above 300 Degrees Fahrenheit in the presence of air, product can form formaldehyde vapors.

### **Conditions to Avoid:**

Exposure to moisture, heat, flames, and sparks

### **Incompatible Materials:**

Oxidizing agents and water

### **Hazardous Decomposition Products**

Contact with humid air may form Ethanol. Thermal decomposition form Formaldehyde.

## 11. TOXICOLOGICAL INFORMATION

### **Likely Routes of Exposure:** Inhalation, Skin Contact, Eye Contact

(Ingestion is not a likely route of exposure under normal conditions of use.)

### **Symptoms of Exposure:**

Causes skin irritation.

### **Numerical measures of toxicity:**

Ingredient: Triethoxyoctylsilane:

LD50 Oral Rat: >5,110 mg/kg

LD50 Dermal Rabbit >6,730 mg/kg

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

#### **Carcinogenicity: IARC, ACGIH, NTP, OSHA**

No Ingredient of this product is present at levels greater than or equal to .1% is identified as probable, possible or confirmed human carcinogen.

**Specific target organ toxicity:** Not classified based on available information.

**Respiratory Irritation:** If material is misted or sprayed, inhalation of mist may cause irritation of mucous membranes and the upper respiratory tract.

## 12. ECOLOGICAL INFORMATION

### **Eco toxicity:**

Toxicity to Daphnia and other aquatic invertebrates: EC50 >0.049 mg/l

Toxicity to algae: ErC50 >.13 mg/l

### **Acute Toxicity: Fish**

Components:

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:

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:

1,2,4-Trimethylbenzene: No Data

Xylenes: No Data

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

### **Chronic Toxicity: Invertebrates**

Components:

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:

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:** Not readily biodegradable. Biodegradation at 31.5% based upon OECD 301D

**Bioaccumulation:** log Pow 6.41 based upon OECD 117

**Mobility:** Not Determined.

**Other Adverse Effects:** Not Determined.

## 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 material.

## 14. TRANSPORT INFORMATION

### D.O.T. (Ground)

UN1263, PAINT, 3, II

### Limited Quantity Packaging Exception for 1 gallon or smaller containers for Ground Shipments Only.

49 CFR 173.150(b) Limited Quantities

Limited Quantities of flammable liquids (Class 3) are excepted from labeling requirements ..., specification packaging ..., and shipping papers...

***This exception does not apply to air and vessel shipment.***

49 CFR 173.150(b)(2) Limited Quantities for flammable liquids in Packing Group II, inner packagings not over 1.0 Liter (0.3 gallons) net capacity each, placed in a strong outer packaging.

49 CFR 172.102 Special Provision 149 When transported as a limited quantity, the maximum net capacity specified in 49 CFR 173.150(b)(2) of this subchapter for inner packagings may be increased to 5 Liters (1.3 gallons).

### I.A.T.A. (Air)

UN1263, PAINT, 3, II

### I.M.D.G. (Vessel)

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 (Extremely Hazardous Substances): None Known**

**SARA 311/312 Hazard Categories:** Acute Health Hazard, Fire Hazard

**SARA Section 313:** This product contains the following components in concentrations greater than 0.1% for carcinogenic substances and/or 1.0% of the substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372: **None Known**

**CWA (Clean Water Act):** This product contains acetone (RQ 5000lbs) 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: This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

### State Right To Know:

<u>CAS Number</u>	<u>Component Name</u>	<u>State</u>
Triethoxyoctylsilane, CAS# 2943-75-1:		New Jersey, Pennsylvania
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.

## 16. OTHER INFORMATION

### HMIS Classification:

Health hazard: 2  
Flammability: 3  
Physical Hazards: 1

### NFPA Rating:

Health hazard: 2  
Fire: 3  
Reactivity Hazard: 1

Issuance Date: December 18, 2021

Revision Date: NA

Revision Note: NA

Date of Previous Version: NA

### 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**