

# SAFETY DATA SHEET



Issue Date: 29 January 2019

Revision Date: 29 January 2019

Version: 2019V1.0

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name: Polyseal EZ Shield**

### Other Means of Identification

SDS #:

**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

## 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**

**Pictograms:** The pictograms shown are: a red diamond with a black exclamation mark (Hazardous), a red diamond with a black silhouette of a person with a star on their chest (Health Hazard), a red diamond with a black flame (Flammable), and a red diamond with a black silhouette of a dead tree and fish (Hazardous to the Environment).

**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 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.
- 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	47-50%
Parachlorobenzotrifluoride	CAS# 98-56-6	15-17%
Petroleum Hydrocarbon	CAS# 64742-94-5	10-12%
Tert Butyl Acetate	CAS# 540-88-5	≤2.0%
Dimethyl Carbonate	CAS# 616-38-6	≤2.0%
Octyltriethoxysilane	CAS# 2943-75-1	0.1-4%

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 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**

#### **Component Exposure Limits**

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

Petroleum Hydrocarbon, CAS# 64742-94-5: OSHA 400 ppm 8 hr. TWA

#### **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

#### **Property**

Vapor Pressure

Vapor Density

Relative Density

pH:

Melting/Freezing Point

Solubility

#### **Value**

Not Available

Not Available

Not Available

Not Relevant

Not Relevant

Not Available

#### **Remarks – Method**

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	0.92 at 25 Degrees C	7.67 +/- 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 drowsiness or dizziness if inhaled. Product may cause respiratory irritation.

Product 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, **Naphthalene**, which is classified by IARC as "possibly carcinogenic to humans" (Group 2B) and by NTP as a SUS, "Reasonably anticipated to be a human carcinogen".

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

**PCBTF:** LD50 Oral Rat: 13,000 mg/kg; LD50 Dermal Rabbit: >2.7 g/kg; LC50 Inhalation Rat: 4479 ppm.

**Petroleum Hydrocarbon CAS#64742-94-5:** LD50 Oral Rat: >5,000 mg/kg; LC50 Inhalation Rat: >5.2 mg/l 4 hrs.; LD50 Dermal Rabbit: >2,000 mg/kg.

**Tert Butyl Acetate:** LD50 Oral Rat: 4,100 mg/kg; LC50 Inhalation Rat: >2,230 mg/m<sup>3</sup> 4 hrs.; LD50 Dermal Rabbit >2 g/kg.

**Dimethyl Carbonate:** LD50 Oral Rat: 13,000 mg/kg; LD50 Dermal Rabbit >5,000 mg/kg.

**Toluene:** LC50 Inhalation Rat: >15.07 mg/l 4 hrs.

## 12. ECOLOGICAL INFORMATION

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

Toxicity to Fish, Component Petroleum Hydrocarbon CAS#64742-94-5: 2-5 mg/l Exposure Time 96 hrs. Species: Oncorhynchus mykiss (rainbow trout).

Toxicity to daphnia and other aquatic invertebrates, Component Petroleum Hydrocarbon CAS#64742-94-5: 0.95 mg/l Exposure Time 48 hrs. Species: daphnia magna (water Flea).

Toxicity to algae, Component Petroleum Hydrocarbon CAS#64742-94-5: EL50: 1-3 mg/l Exposure Time 1 day Species: Pseudokirchneriella subcapitata (green algae).

**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

### **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:** 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>
91-20-3	Naphthalene	≤1.3%
98-82-8	Cumene	≤0.2%
95-63-6	1,2,4-Trimethylbenzene	≤0.2%

**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.

Naphthalene – Carcinogen

Cumene - Carcinogen

### **States Right To Know:**

Petroleum Hydrocarbon, CAS# 64742-94-5: Pennsylvania, New Jersey.

Naphthalene, CAS# 91-20-3: New Jersey, Illinois, Minnesota, Pennsylvania, Rhode Island, New York, Massachusetts.

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

Cumene, CAS# 98-82-8: New Jersey, Pennsylvania.

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

## 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:** March 23, 2017

**Revision Date:** June 25, 2018

**Revision Note:** Reviewed and Updated

**Date of Previous Version:** November 4, 2014

### **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**