

# Safety Data Sheet (SDS)

According to GHS (Global Harmonized System) - Hazcom 2012

Date Printed (YYYY-MM-DD): 2020-04-15

## Section 1 - Product and Company Information

**Product Name:** PlastiFix Liquid

**Product Part Number(s):** 2520-L,

**Recommended Use:** Part of a kit for repairing plastic

**COMPANY IDENTIFICATION:**

Polyvance  
1128 Kirk Rd.  
Rainsville, AL 35986

**Information email:** info@polyvance.com

**EMERGENCY TELEPHONE NUMBER:**

**24 Hour Emergency contact:** Chemtrec: 1-800-424-9300  
Outside US: 703-527-3887

**Customer Information Number:** 256-638-4103 (7AM - 4PM (CST) M-F)

## Section 2 - Hazards Identification

**Appearance:** Colorless liquid

**Odor:** Acrid, penetrating odor.

**Hazard Statement:**

WARNING! . Highly flammable liquid and vapor. Causes mild skin irritation. Causes eye irritation. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life.

**Signal Word:** WARNING!

**Signal Word Hazard:** Flammable Liquid

| GHS Physical Hazard Pictogram  | GHS Health Hazard Pictogram(s)  | GHS Environmental Hazard Pictogram |
|--|---|------------------------------------|
| <br>Flammable | <br>Irritant | Not Applicable                     |

### GHS Hazards Statement Codes for This Product

| Statement Type | Statement Code | Statement Text  |
|----------------|----------------|---|
| Health         | H320           | Causes eye irritation   |
| Health         | H335           | May cause respiratory irritation                                  |
| Health         | H316           | Causes mild skin irritation                                       |
| Health         | H373           | May cause damage to organs through prolonged or repeated exposure |
| Physical       | H225           | Highly flammable liquid and vapor                                 |
| Environmenta   | H402           | Harmful to aquatic life   |

**Precautionary Statement:**

Keep away from heat/sparks/open flames/hot surfaces - No smoking. Avoid breathing dust/fume/gas/mist/vapors/spray. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN: Wash with soap and water. Dispose of contents/container to hazardous waste in accordance with local, state or national legislation. Incinerate under approved controlled

conditions, using incinerators suitable for the disposal of flammable organics..

## GHS Precautionary Statement Codes for This Product

| Statement Type | Statement Code | Statement Text   |
|----------------|----------------|--|
| Prevention     | P210           | Keep away from heat/sparks/open flames/hot surfaces - No smoking   |
| Prevention     | P261           | Avoid breathing dust/fume/gas/mist/vapours/spray   |
| Prevention     | P280           | Wear protective gloves/protective clothing/eye protection/face protection  |
| Response       | P302+352       | IF ON SKIN: Wash with soap and water   |
| Disposal       | P501           | Dispose of contents/container to hazardous waste in accordance with local, state or national legislation. Incinerate under approved controlled conditions, using incinerators suitable for the disposal of flammable organics. |

## Potential Health Effects

|                            |  |
|----------------------------|--|
| <b>Eye Contact:</b>        | Liquid and vapors can cause irritation (tears, blurred vision, redness) and possible corneal damage.   |
| <b>Skin Contact:</b>       | May cause skin irritation (itching and soreness).  |
| <b>Skin Absorption:</b>    | May cause rashes.  |
| <b>Skin Sensitization:</b> | Can cause skin sensitization.  |
| <b>Inhalation:</b>         | High concentration of vapors is severe irritant to respiratory tract and may cause dizziness, headache and anesthetic effects. It may cause elevated methemoglobin in the blood. |
| <b>Ingestion:</b>          | Causes irritation, a burning sensation of the mouth, throat and gastrointestinal tract and abdominal pain, central nervous depression. May cause methemoglobinemia.              |
| <b>Birth Defects:</b>      | Developmental toxicity observed in animal tests but only at levels toxic to the mother.  |

## Section 3 - Composition / Information on Ingredients

| Component                      | CAS #   | ENIECS | REACH Reg. No. | Amount  |
|--------------------------------|---------|--------|----------------|---------|
| Methyl Methacrylate Monomer    | 80-62-6 |        |                | 95-100% |
| Ethylene Glycol Dimethacrylate | 97-90-5 |        |                | 0-5%    |

## Section 4 - First Aid Measures

|                      |  |
|----------------------|--|
| <b>Eye Contact:</b>  | In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.   |
| <b>Skin Contact:</b> | In case of contact, immediately wash skin with soap and water. Obtain medical attention if blistering occurs or redness persists. Wash contaminated clothing before reuse. |
| <b>Inhalation:</b>   | If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.                                  |
| <b>Ingestion:</b>    | If swallowed, do not induce vomiting. Immediately give two glasses of water. Never give anything by mouth to an unconscious person. Call a physician.                      |

## Section 5 - Firefighting Measures

|   |  |
|---|--|
| <b>Extinguishing Media:</b>               | Chemical foam, carbon dioxide, dry chemical  |
| <b>Unusual Fire or Explosion Hazards:</b> | Vapors may travel to source of ignition and flash back. Heat can cause polymerization with rapid release of energy when may rupture container explosively. (Spontaneous polymerization may occur on prolonged storage) |

**Fire Fighting Procedures:**

Wear self contained breathing apparatus, and full protective gear. Use water spray to cool containers.

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## Section 6 - Accidental Release Measures

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**Personal Precautions:** Eliminate sources of ignition. Wear protective gloves and eye/face protection. Avoid breathing vapors. See Section 8

**Environmental Precautions:** Avoid release to the environment. Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

**Methods For Clean Up:** Evacuate the area. Eliminate sources of ignition. Use self contained breathing apparatus and protective clothing. Dike and absorb with inert material. Transfer to proper containers for disposal, use non-sparking tools.

**Methods for Containment:** When discarded it is listed as a hazardous waste by the EPA under RCRA U-162 with the reportable quantity of 1000 pounds (40CFR Part 302) Incinerate liquid and diking material after addition of excess inhibitor, in accordance with regulations.

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## Section 7 - Handling and Storage

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**General Handling Practices:** Do not breathe vapor or mist. Do not get in eyes, on skin or clothing. Wash thoroughly after handling. Keep out of reach of children.

**Handling Precautions:** Close container after each use. Ground container when pouring. Keep away from heat, sparks and flames.

**Storage Requirements:** Store in a cool dry place away from heat, sparks, flame and direct sunlight. Store in well-ventilated space. Keep container tightly closed. As long as the bottle is sealed and kept in a cool, dry place, shelf life should be indefinite.

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## Section 8 - Precautions to Control Exposure / Personal Protection

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| Component                   | Source | Type | Value   | Remarks |
|-----------------------------|--------|------|---------|---------|
| Methyl Methacrylate Monomer | OSHA   | TWA  | 100 ppm |         |
| Methyl Methacrylate Monomer | ACGIH  | TWA  | 100 ppm | TLV     |

### Personal Protective Equipment (PPE):

**Eye / Face Protection:** Safety glasses or chemical splash goggles.

**Skin Protection:** Wear protective gloves. For splash protection: Butyl; EN374. For immersion protection: Butyl; 0.7 mm or greater; EN374

**Respiratory Protection:** Wear respiratory protection. Wear suitable protective equipment if exposure to levels above the occupational exposure limit is likely. A suitable mask with filter type "A" may be appropriate.

**Hygienic Measures:** Wash face and hands thoroughly with soap and water after use and before eating, drinking, smoking or applying cosmetics.

**Other Protection Measures:** Provide eyewash, safety shower and impervious clothing.

**Engineering Controls:** Use good, local explosion-proof ventilation to ensure that the occupational exposure limit is not exceeded.

**HMIS Personal Protection:** G



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## Section 9 - Physical and Chemical Properties

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|                                   |                            |
|-----------------------------------|----------------------------|
| <b>Appearance:</b>                | Clear Liquid               |
| <b>Color:</b>                     | Colorless                  |
| <b>Odor:</b>                      | Acrid, penetrating odor    |
| <b>Odor Threshold:</b>            | 0.5 - 1.0                  |
| <b>pH:</b>                        | Not Applicable             |
| <b>Melting Point:</b>             | -49 C (-56.2 F)            |
| <b>Freezing Point:</b>            | -48 C (-54.4 F)            |
| <b>Boiling Point:</b>             | 101 C (214 F) at 760 mm Hg |
| <b>Boiling Range:</b>             | ND                         |
| <b>Flash Point:</b>               | 11.5 C (52.7 F)            |
| <b>Evaporation Rate:</b>          | 3.1 (BuAc = 1)             |
| <b>Flammability:</b>              | Not applicable             |
| <b>Upper Flammability Limit:</b>  | 12.5                       |
| <b>Lower Flammability Limit:</b>  | 2.12                       |
| <b>Vapor Pressure:</b>            | 28 mm Hg @ 20 C (68 F)     |
| <b>Vapor Density:</b>             | 3.5 @ 60F (Air = 1)        |
| <b>Specific Gravity:</b>          | 0.98 g/ml @ 15.5 C (60 F)  |
| <b>Solubility in Water:</b>       | 27.6 WT% @ 20 C (68 F)     |
| <b>Partition Coefficient:</b>     | 1.38                       |
| <b>Autoignition Temperature:</b>  | 421 C (790 F)              |
| <b>Decomposition Temperature:</b> | Not applicable             |
| <b>Viscosity:</b>                 | Not applicable             |

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## Section 10 - Stability and Reactivity

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|                                  |  |
|----------------------------------|--|
| <b>Chemical Stability:</b>       | Unstable with heat   |
| <b>Conditions to Avoid:</b>      | Temps above 70 F (21 C), ignition sources, oxidizing/reducing agents, peroxides, acids, alkalis, amines, aging & contamination. Material is a strong solvent and can soften paints and rubber. |
| <b>Incompatible Materials:</b>   | Reducing and oxidizing agents and UV light. Material has strong solvent properties and can soften paint and rubber.  |
| <b>Hazardous Decomposition</b>   | Mainly oxides of carbon when burned.   |
| <b>Products:</b>                 |  |
| <b>Hazardous Polymerization:</b> | Can occur.   |

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## Section 11 - Toxicological Information

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|                            |   |
|----------------------------|---|
| <b>Ingestion Toxicity:</b> | 7,900 mg/Kg in rats (very low toxicity by ingestion)  |
| <b>SkinAbsorption:</b>     | LD50: >35,500 mg/Kg in rabbits (very low toxicity by contact)                                     |
| <b>Inhalation:</b>         | 4 hour LD50: 7093 ppm in rats (very low toxicity by inhalation)                                   |
| <b>Repeated Dose:</b>      | Repeated exposure to high levels produces adverse effects on the heart, lungs, liver and kidneys. |

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## Section 12 - Ecological Information

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|                                 |  |
|---------------------------------|--|
| <b>EcoToxicity:</b>             | Low toxicity to fish. Harmful to aquatic invertebrates. Low toxicity to algae. |
| <b>PersistenceDegrdability:</b> | Readily biodegradable.   |
| <b>Bioaccumulation:</b>         | Product has low potential for bioaccumulation.                                 |

**Mobility / Partitioning:** The product is predicted to have high mobility in soil.

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## Section 13 - Disposal Considerations

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**Disposal Method:** When discarded it is listed as a hazardous waste by the EPA under RCRA U-162 with the reportable quantity of 1000 pounds (40CFR Part 302) Incinerate liquid and diking material after addition of excess inhibitor, in accordance with regulations.

**Container Disposal:** Disposal must be made according to official regulations.

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## Section 14 - Transport Information

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### DOT

**Proper Shipping Name:** Methyl Methacrylate Monomer, stabilized

**Hazard Class:** 3.2 (9.2)

**Identification Number:** UN1247

**Packing Group:** II

### IMDG (Maritime transport)

**Proper Shipping Name:** Methyl Methacrylate Monomer, stabilized

**IMDG Class:** 3.2

**UN Number:** UN1247

**Additional IMDG Information:** Packing instruction P001:

### IATA (Air transport)

**Proper Shipping Name:** Methyl methacrylate monomer, stabilized

**ICAO / IATA Class:** 3

**UN / ID Number:** UN1247

**Label:** Flammable Liquid

**Packing Group:** II

**Additional IATA Shipping Information:** Packing instruction Y341: Inner packaging <0.5L. Total net quantity per package: 1L.

**Information:** Excepted Quantity (EQ) Code: E2: Maximum net quantity per inner packaging: 30 g / 30 ml. Maximum net quantity per outer packaging: 500 g / 500 mL

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## Section 15 - Regulatory Information

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Superfund Amendments and Reauthorization Act of 1986 (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312

Immediate (Acute) Health Hazard: Yes

Delayed (Chronic) Health Hazard: No

Fire Hazard: Yes  
Reactive Hazard: Yes  
Sudden Release of Pressure: No

The following lists hazardous components and the regulatory lists for which they are required to be reported.

**Component:** Methyl Methacrylate Monomer

**CAS:** 80-62-6

**Amount:** 95-100%

Methyl Methacrylate Monomer is listed with New Jersey Right to Know.

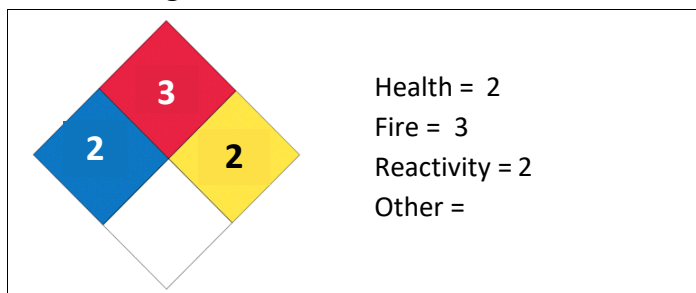
Methyl Methacrylate Monomer is listed with Pennsylvania Right to Know.

Methyl Methacrylate Monomer is listed with Rhode Island Right to Know.

#### HMIS Rating (0 - 4)

|                            |          |                         |
|----------------------------|----------|-------------------------|
| <b>HEALTH</b>              | <b>2</b> | Health = 2              |
| <b>FIRE</b>                | <b>3</b> | Fire = 3                |
| <b>PHYSICAL</b>            | <b>1</b> | Physical = 1            |
| <b>PERSONAL PROTECTION</b> | <b>G</b> | Personal Protection = G |

#### NFPA Ratings



## Section 16 - Other Information

### Legend

|       |   |
|-------|---|
| ACGIH | American Conference of Governmental Hygienists        |
| CFR   | Code of Federal Regulations                           |
| DFG   | Deutsche Forschungsgemeinschaft                       |
| HMIS  | Hazardous Materials Identification System             |
| IARC  | International Agency for Research on Cancer           |
| MAK   | Maximum Allowable Concentration (German)              |
| NFPA  | National Fire Protection Association                  |
| NIOSH | National Institute for Occupational Safety and Health |
| OEL   | Occupational Exposure Limit                           |
| RCRA  | Resource Conservation and Recovery Act                |
| STEL  | Short Term Exposure Limit                             |
| TLV   | Threshold Limit Value                                 |
| TWA   | Time Weighted Average                                 |

### DISCLAIMER

This Safety Data Sheet (SDS) is prepared in compliance with GHS Hazcom 2012. The information may be based in part on

information provided by component suppliers and is believed to be correct as of the date hereof. However, no warranty or merchantability, fitness for any use, or any other warranty is expressed or is to be implied regarding the accuracy of this data, the results to be obtained from the use of the material, or the hazards connected with such use. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar, and since data made available subsequent to the date hereof may suggest modification of the information, we assume no responsibility for the result of its use. This information and material is furnished on the condition that the person receiving it shall make his/her own determination as to the suitability of the material for his/her particular purpose and on the condition that he/she assume the risk of his/her use thereof.