

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, 2520, 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
		
Flammable	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
Environmental	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

Eye Contact:	Liquid and vapors can cause irritation (tears, blurred vision, redness) and possible corneal damage.
Skin Contact:	May cause skin irritation (itching and soreness).
Skin Absorption:	May cause rashes.
Skin Sensitization:	Can cause skin sensitization.
Inhalation:	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.
Ingestion:	Causes irritation, a burning sensation of the mouth, throat and gastrointestinal tract and abdominal pain, central nervous depression. May cause methemoglobinemia.
Birth Defects:	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

Eye Contact:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.
Skin Contact:	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.
Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
Ingestion:	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

Extinguishing Media:	Chemical foam, carbon dioxide, dry chemical
Unusual Fire or Explosion Hazards:	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.

Section 6 - Accidental Release Measures

- 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.

Section 7 - Handling and Storage

- 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.

Section 8 - Precautions to Control Exposure / Personal Protection

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



Section 9 - Physical and Chemical Properties

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

Section 10 - Stability and Reactivity

Chemical Stability: Unstable with heat
Conditions to Avoid: 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.
Incompatible Materials: Reducing and oxidizing agents and UV light. Material has strong solvent properties and can soften paint and rubber.
Hazardous Decomposition Products: Mainly oxides of carbon when burned.
Hazardous Polymerization: Can occur.

Section 11 - Toxicological Information

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

Section 12 - Ecological Information

EcoToxicity: Low toxicity to fish. Harmful to aquatic invertebrates. Low toxicity to algae.
Persistence/Degradability: Readily biodegradable.
Bioaccumulation: Product has low potential for bioaccumulation.

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

Section 13 - Disposal Considerations

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.

Section 14 - Transport Information

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 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

Section 15 - Regulatory Information

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.

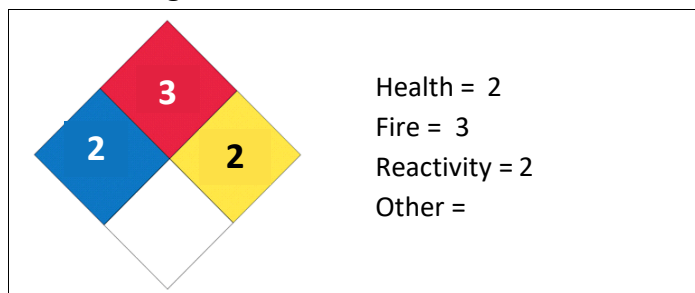
Methyl Methacrylate Monomer is listed with Pennsylvania Right to Know.

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

HMIS Rating (0 - 4)

HEALTH	2	Health = 2
FIRE	3	Fire = 3
PHYSICAL	1	Physical = 1
PERSONAL PROTECTION	G	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.