

Safety Data Sheet

According to GHS (Global Harmonized System) - Hazcom 2012

Date Printed: 01-14-2014

Section 1 - Product and Company Information

Product Name: PlastiFix Liquid
Product Part Number(s): 2520, 2520-L
Recommended Use: Part of a kit for repairing plastic

<p>COMPANY IDENTIFICATION: Urethane Supply Company 1128 Kirk Rd. Rainsville, AL 35986 Information Email: info@urethanesupply.com</p>	<p>EMERGENCY TELEPHONE NUMBER 24 Hour Emergency Contact Chemtrec - 1-800-424-9300 Customer Information Number 256-638-4103 (7AM - 4PM (CST) M-F)</p>
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Section 2 - Hazards Identification


Appearance: Colorless liquid
Odor: Acrid, penetrating odor.

Hazard Statement:

WARNING! 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.

Signal Word: WARNING!

Signal Word Hazard: Flammable Liquid

GHS Physical Hazard Pictograms	GHS Health Hazard Pictograms	GHS Environmental Hazard Pictograms
 Flammable	Not Applicable	Not Applicable

GHS Hazards Statement Codes for This Product

Statement Type	Statement Code	Statement Text
Physical	H226	Flammable liquid and vapor
Health	H316	Causes mild skin irritation
Health	H320	Causes eye irritation
Health	H335	May cause respiratory irritation
Health	H373	May cause damage to organs through prolonged or repeated exposure

Precautionary Statement:

Keep cool. Protect from sunlight. Do not eat, drink or smoke when using this product. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do ♦ continue rinsing. Take off contaminated clothing and wash before reuse.

GHS Precautionary Statement Codes for This Product

Statement Type	Statement Code	Statement Text
Prevention	P235+410	Keep cool. Protect from sunlight
Prevention	P270	Do not eat, drink or smoke when using this product
Response	P301+330+331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
Response	P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Response	P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do ♦ continue rinsing
Response	P362	Take off contaminated clothing and wash before reuse

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 anaesthetic 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 Effects:	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
Ethylene Glycol Dimethacrylate	97-90-5			0.0-20.0%
Methyl Methacrylate Monomer	80-62-6			60-100%

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

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

Unusual Fire and 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)

Section 6 - Accidental Release Measures

Steps to be Taken if Material is Released or Spilled: 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.

Personal Precautions:

Environmental Precautions:

Section 7 - Handling and Storage

General Handling: 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.

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

Storage: 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: Impervious, nitrile.

Respiratory Protection: A NIOSH/MSHA approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain limited circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use self-contained breathing apparatus when needed.

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 with a minimum capture velocity of 100 ft/min at point of monomer release.



Section 9 - Physical and Chemical Properties

Appearance:	Clear Liquid
Color:	Colorless
Odor:	Acrid, penetrating odor
ph:	ND
Flash Point:	11.5° C (52.7° F)
Upper Flammable Limit:	12.5
Lower Flammable Limit:	2.12
Autoignition Temperature:	421°C (790° F)
Vapor Pressure:	28 mm Hg @ 20 C (68 F)
Boiling Point:	101° C (214° F) at 760 mm Hg
Vapor Density:	3.5 @ 60F (Air = 1)
Specific Gravity:	0.98 g/ml @ 15.5 C (60 F)
Freezing Point:	-48° C (-54.4° F)
Melting Point:	-49° C (-56.2° F)
Solubility in Water:	27.6 WT% @ 20 C (68 F)
Evaporation Rate:	3.1 (BuAc = 1)
Partition Coefficient:	1.38

Section 10 - Stability and Reactivity

Stability/Instability: 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 Polymerization: Can occur.

Hazardous Decomposition Products: Mainly oxides of carbon when burned.

Section 11 - Toxicological Information

Acute Toxicity

Ingestion

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 Toxicity

Repeated exposure to high levels produces adverse effects on the heart, lungs, liver and kidneys.

Section 12 - Ecological Information

Movement & Partitioning

The product is predicted to have high mobility in soil.

Persistence and Degradability

Not readily biodegradable.

ECOTOXICITY

Low toxicity to fish. Harmful to aquatic invertebrates. Low toxicity to algae.

Bioaccumulation:

Product has low potential for bioaccumulation.

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, Inhibited, 3, UN1247, PGII**Hazard Class:** 3.2 (9.2)**ID Number:** UN1247**Packing Group:** II

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 table list hazardous components and the regulatory lists for which they are required to be reported.

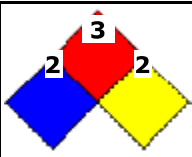
Component: Methyl Methacrylate Monomer**CAS Number:** 80-62-6**Amount:** 60-100%

Methyl Methacrylate Monomer is listed with Pennsylvania Right to Know.

HMIS Rating (Scale 0 - 4)

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

NFPA Ratings

	Health = 2
	Fire = 3
	Reactivity = 2

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)
MSDS	Material Safety Data Sheet
ND	Not Determined

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 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.

Safety Data Sheet

According to GHS (Global Harmonized System) - Hazcom 2012

Date Printed: 01-14-2014

Section 1 - Product and Company Information

Product Name: PlastiFix Powder, White**Product Part Number(s):** 2531, 2531-L**Recommended Use:** To repair broken plastic parts**COMPANY IDENTIFICATION:**

Urethane Supply Company

1128 Kirk Rd.

Rainsville, AL 35986

Information Email: info@urethanesupply.com**EMERGENCY TELEPHONE NUMBER****24 Hour Emergency Contact**

Chemtrec - 1-800-424-9300

Customer Information Number

256-638-4103 (7AM - 4PM (CST) M-F)

Section 2 - Hazards Identification

Appearance: White powder**Odor:** Faint**Hazard Statement:**

Causes mild skin irritation. May cause respiratory irritation.

GHS Physical Hazard Pictograms	GHS Health Hazard Pictograms	GHS Environmental Hazard Pictograms
Not Applicable	Not Applicable	Not Applicable

GHS Hazards Statement Codes for This Product

Statement Type	Statement Code	Statement Text
Health	H316	Causes mild skin irritation
Health	H335	May cause respiratory irritation

Precautionary Statement:

Keep out of reach of children.

GHS Precautionary Statement Codes for This Product

Statement Type	Statement Code	Statement Text
General	P102	Keep out of reach of children

Potential Health Effects

Eye Contact: May be irritated by gross overexposure, no matter how generated. Keep dust out of eyes.

Skin Contact:	May be irritated by gross overexposure, no matter how generated. May cause dryness.
Skin Absorption:	May cause dryness.
Inhalation:	May irritate eyes, skin and respiratory tract.
Ingestion:	OSHA classifies the material as Particulates, not otherwise classified.

Section 3 - Composition/Information on Ingredients

Component	CAS #	ENIECS	REACH Reg. No.	Amount
Benzoyl Peroxide	94-36-0			0.5-1.5%
Particulates not otherwise classified				60-100%
Residual monomers		NA		0.5-5.0%

Section 4 - First Aid Measures

Eye Contact: Flush with water for 15 minutes, including under eyelids. Get medical help if discomfort persists.

Skin Contact: Wash with soap and water. Get medical help if discomfort persists.

Inhalation: Remove to fresh air. Get medical help if discomfort persists.

Ingestion: Rinse mouth with water. Call doctor if amount was large.

Section 5 - Firefighting Measures

Extinguishing Media: Water, carbon dioxide, dry chemical.

Fire Fighting Procedures: Avoid extinguishing methods which may generate dust clouds. Water stream can disperse dust into air, producing a fire hazard and possible explosion hazard if exposed to ignition source.

Unusual Fire and Explosion Hazards: Polymer dust is combustible. The explosive limits of the polymer particles suspended in air are approximately those of coal dust.

Section 6 - Accidental Release Measures

Steps to be Taken if Material is Released or Spilled: Sweep up to avoid slipping hazard. Keep airborne particulates at a minimum when cleaning up spills.

Personal Precautions:

Environmental Precautions:

Section 7 - Handling and Storage

General Handling: Keep out of reach of children.

Other Precautions: Use in well ventilated areas. Wear gloves when handling powder.

Storage: Store in a cool dry place. Keep container closed to prevent water absorption and contamination.

Section 8 - Precautions to Control Exposure / Personal Protection

Component	Source	Type	Value	Remarks
Benzoyl Peroxide	OSHA	PEL-TWA	5 mg/m ³	
Benzoyl Peroxide	ACGIH	TLV-TWA	5 mg/m ³	
Particulates not otherwise classified	OSHA	PEL-TWA	15 mg/m ³	
Particulates not otherwise classified	ACGIH	TLV	10 mg/m ³	

Personal Protective Equipment (PPE):

Eye/Face Protection: Safety glasses of chemical splash goggles.

Skin Protection: Normally not necessary, but latex or nitrile gloves are appropriate.

Respiratory Protection: Use type for Particulates not otherwise classified, if needed.

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 are recommended.

Engineering Controls: Use good, local exhaust.



Section 9 - Physical and Chemical Properties

Appearance:	Fine powder. Faint odor in bulk.
Color:	White
ph:	Not Available
Flash Point:	580F
Upper Flammable Limit:	Not Available
Lower Flammable Limit:	Not Available
Autoignition Temperature:	Not Available
Vapor Pressure:	Not Available
Boiling Point:	Not Available
Vapor Density:	Not Available

Specific Gravity:	1.25
Freezing Point:	Solid at room temperature.
Melting Point:	Not Available
Solubility in Water:	Insoluble
Evaporation Rate:	Not Available
Partition Coefficient:	Not Available
Decomposition Temperature:	Not Available
Visosity:	Not Available

Section 10 - Stability and Reactivity

Stability/Instability: Stable

Conditions To Avoid: Heating above 464 F (240 C)

Incompatible Materials: Strong oxidizing agents.

Hazardous Polymerization: Will not occur

Hazardous Decomposition Products: Methacrylate monomer and oxides of carbon when burned.

Section 11 - Toxicological Information

Acute Toxicity

Ingestion

Not Available

Skin Absorption

Not Available

Inhalation

Not Available

Section 12 - Ecological Information

ECOTOXICITY

Not Available

Section 13 - Disposal Considerations

Disposal Method:

Dispose in a landfill or incinerate according to Federal, State and Local regulations.

Container Disposal: Reuse of empty drums or containers is not recommended. Employees should be advised of the potential hazards, due to residual material associated with empty containers. It is our policy to discourage the reuse of empty containers and to dispose of all empty containers properly in accordance with Federal, State and Local regulations.

Section 14 - Transport Information

DOT

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

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Section 16 - Other Information

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ACGIH	American Conference of Governmental Hygenists
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)
MSDS	Material Safety Data Sheet
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
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