

MATERIAL SAFETY DATA SHEET

Updated 01/06/2016

SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product (material) name : Acrylic Bonding Liquid
Other names : Plasti-set Monomer, Plasti-set Clear Liquid
Recommended use : Mixed with Plasti-set Powder for plastic, fibre glass and carbon fibre repairs.
Supplier Information :
Trimfix Supplies
200 Hamilton Road
New Gisborne, VIC, 3438
Phone:03 5428 3988
Fax:03 5428 4988
Email: sales@trimfixsupplies.com
Emergency Contact: 0418 362 482 or contact Poisons Information Centre 131126

SECTION 2 HAZARDS IDENTIFICATION

Hazard classification and statement of overall hazardous or dangerous nature : HAZARDOUS SUBSTANCE; DANGEROUS GOODS Class 3 Flammable Liquids PG II; Classified as Hazardous according to the criteria of NOHSC.

Risk phrase(s) :

F = Flammable

R11 = Highly Flammable

Xi = Irritant

R36/37/38 = Irritating to eyes, respiratory system and skin.

R43 = May cause sensitization by skin contact.

Safety phrase(s) :

S(2) = Keep out of reach of children

S9 = Keep container in a well-ventilated place.

S16 = Keep away from sources of ignition. No smoking.

S29 = Do not empty into drains.

S33 = Take precautionary measures to prevent static discharges.

S36/37/39 = Irritating to eyes, respiratory system and skin.

S45 = In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SUSDP Safety Directions: DO NOT SWALLOW. Avoid breathing vapour and avoid contact with the eyes and skin.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Substance Name	Synonyms	CAS Number	Proportion
Ethyl MethAcrylate	Ethyl Methacrylate	97-63-2	50-80%
Hydroxypropyl Methacrylate	Hydroxypropyl Methacrylate	27813-02-1	10-<30%
Tetraethylene glycol Dimethacrylate	PEG-4 Dimethacrylate	109-17-1	<10%
NN Dimethyl-p-toluidine	Dimethyltoluidine	99-97-8	<1%
D&C Violet	CI60725	81-48-1	<1%

Contains other substances classified as non hazardous according to the criteria of NOHSC.

SECTION 4 FIRST AID MEASURES

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label where applicable. If poisoning occurs seek the advice of a doctor or contact Poisons Information Centre 13 11 26.

Emergency Overview

- Flammable liquid and vapour
- May cause eye irritation
- May cause skin irritation
- Avoid prolonged or repeated breathing of gases, vapors or mists
- Read entire MSDS for additional information.

Symptoms that may arise if the product is mishandled are:

ACUTE EFFECTS

SWALLOWED: Unlikely under normal circumstances but ingestion may result in nausea, vomiting, headaches, drowsiness, dizziness and central nervous system depression. Causes irritation, a burning sensation of the mouth, throat and respiratory tract and abdominal pain.

EYE: Liquid or vapour may cause irritation. Liquid contact with eyes can cause irritation and possible corneal damage.

SKIN: May cause irritation.

INHALATION: Exposure to vapour may cause irritation of mucous membrane and respiratory tract. Inhalation of high concentration of vapour may cause headaches, nausea, drowsiness and central nervous system depression.

CHRONIC EFFECTS

SKIN: Repeated or prolonged exposure to skin may cause defatting of the skin leading to irritation and dermatitis.

FIRST AID MEASURES

Description of necessary measures according to routes of exposure :

SWALLOWED: IF conscious immediately rinse mouth with water & give water to drink. Do not induce vomiting. If vomiting occurs rinse mouth and administer more water. Never give anything by mouth to an unconscious person. Keep patient warm. **Seek immediate medical assistance.**

EYE: Immediately irrigate with copious quantities of water for at least 15 minutes. Eyelids to be held open. Seek medical assistance. If in eyes, wash out immediately with water and rinse eyes with running water for at least 15 minutes or until advised to stop by a doctor.

SKIN: Wash with soap & water. Remove contaminated clothing & wash before re-use. If irritation, swelling, redness or blistering occurs seek medical assistance. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

INHALATION: Remove from contaminated area. Apply artificial respiration if not breathing. Remove affected person from contaminated area. Avoid becoming a casualty. Seek medical attention or special treatment as required.

SECTION 5 FIRE FIGHTING MEASURES

Flammable liquid, vapours may travel to source of ignition and flash back. Heat can cause polymerisation with rapid release of energy which may rupture closed containers explosively. Spontaneous polymerization may occur on prolonged storage. When heated above flash point, releases vapour. When mixed with air and exposed to ignition source, vapour can burn in open or explode if confined. Vapours may be heavier than air. May travel long distances along ground before igniting or flashing back to vapour source.

Never use welding or cutting torch on or near drum even if empty (residues) because product can ignite explosively. Fire fighters to wear self-contained breathing apparatus with a full facepiece operated in the positive pressure mode and full protective clothing when fighting fire.

Flash Point: TAG Closed Cup 68° F / 20° C
Flammable Limit: (vol %) LEL: 2.0% UEL: 2.5%
Auto-ignition Temperature: 392.8° C.

Extinguishing Media: Foam, Carbon Dioxide, Dry Chemical Powder and Water Fog. Water maybe ineffective unless used as a fine spray or fog. Keep adjacent drums cool with water spray. Alcohol resistant foam, carbon dioxide or dry chemical powder. Water may be ineffective. Water spray may be used to keep fire-exposed containers cool until fire is out.

Hazards from combustion products : Heat can induce polymerization with rapid release of energy. Closed containers may rupture explosively. Spontaneous polymerization may occur with prolonged ageing.

Special protective precautions and equipment for fire fighters : Fire fighters to wear self contained breathing apparatus & full protective gear.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Emergency procedures : Evacuate area. Eliminate sources of ignition. Use self contained breathing apparatus and protective clothing. Dike and absorb with inert material (ie sand, soda, ash). Transfer to proper containers for disposal, use non-sparking tools. Keep spills out of sewers & open bodies of water. Remove saturated clothing and wash affected skin areas with soap and water. Wear proper protective equipment. Contain and absorb using sand, earth or other inert material. Stop spill at source if possible. Prevent from entering drains, sewers, streams or other bodies of water. Wash down area with water. If contamination of sewers or waterways has occurred advise the local emergency services. Transfer spilled material into clean labelled container for disposal.

SECTION 7 HANDLING AND STORAGE

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label where applicable. Symptoms that may arise if the product is mishandled are:

Classified as a Class 3 Flammable Liquid for storage or transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail. Refer to State Regulations for storage or transport requirements.

Precautions for safe handling : Use only with adequate ventilation. High vapour concentrations may irritate the respiratory system. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Store in a cool, dry place out of direct sunlight. Keep container closed when not in use. Maintain air space inside storage containers. Store away from sources of heat, sparks, flames or other sources of ignition. In case of accident follow spill or fire-fighting procedures above. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities : Incompatibility materials to avoid, reducing and oxidising agents and UV light. Hazardous decomposition or by products include Oxides of carbon when burned. Store away from sources of heat or ignition. Store in a cool place away from direct sunlight in a well ventilated place. Keep containers securely sealed and protected against physical damage. Earth and bond containers and vehicles to filling points when dispensing pouring or pumping as vapours may ignite due to static electricity. Maintain air space inside containers. Inhibitor requires air (oxygen) to function. Check inhibitor levels after 3 months and return to original level.

Explosion Hazards: Avoid ignition sources or excessive temperatures. Heat can induce polymerisation with rapid release of energy. Closed containers may rupture explosively. Spontaneous polymerization may occur with prolonged ageing.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

As published by Worksafe Australia: not evaluated

Biological limit values : Not known

Engineering controls : Take precautionary measures to prevent static discharges. General (mechanical) room ventilation and local exhaust ventilation is recommended. All ventilation equipment must be fitted with flame and explosion proof electrical fittings.

Personal protective equipment : Conduct a hazards assessment before using this product. Liquid concentrations may cause skin irritation. Repeated or prolonged contact may cause allergic skin rashes, itching and swelling which becomes evident on re-exposure to this product. Vapour concentrations may cause irritation of eyes. Liquid contact with eyes can cause irritation and possible corneal damage. Wear gloves, face shield or safety glasses/goggles and overalls due to splashing or spraying of materials. Always wash hands before smoking, eating or drinking.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance (colour, physical form, shape) : Blue violet liquid

Odour : Sharp ester like odour

pH : not determined

Vapour Density (air=1) : 3.9

Vapour Pressure (20°C) : 0.69mmHg

Boiling point/range : 243°F / 117° C

Melting point : NA

Solubility in water : 0.5g/100g @ 20° C

Specific Gravity (20°C)	: (H2O=1): 0.918
Volatility	: W/W %: 99+
Flash Point (closed cup)	: TAG Closed Cup 68° F / 20° C
Flammability Limits (%) LEL	: 2.0
Flammability Limits (%) UEL	: 2.5
Autoignition Temp (C)	: 392.8° C

SECTION 10 STABILITY AND REACTIVITY

Chemical stability	: Stable
Conditions to avoid	: Do not mix with Class 5 Oxidising Agents
Incompatible materials	: Reducing and oxidising agents and UV light
Hazardous decomposition products nitrogen (NO2)	: Toxic gasses, including oxides of carbon (CO2) and
Hazardous reactions	: See above

SECTION 11 TOXICOLOGICAL INFORMATION

Health effects from the likely routes of exposure : None of the components of the material are listed as Carcinogens. Signs and symptoms of exposure; liquid or high vapour concentration can irritate eyes and respiratory system and cause skin rashes. Prolonged exposure can lead to headaches, nausea, drowsiness and unconsciousness.

TOXICITY

LD50 oral (rat): 13300 mg/kg

LD50 inhalation (rabbit) 3800 ppm

LD50 dermal (rabbit): 9100 mg/kg

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity	: Not known
Persistence and degradability	: Not known
Mobility	: Not known

SECTION 13 DISPOSAL CONSIDERATIONS

Refer to State Land Waste Management Authority.

Incompatibility materials to avoid, reducing and oxidising agents and UV light. Hazardous decomposition or by products include Oxides of carbon when burned. Store away from sources of heat or ignition. Keep containers securely sealed and protected against physical damage. Earth and bond containers and vehicles to filling points when dispensing pouring or pumping as vapours may ignite due to static electricity. Dike and absorb with inert material (ie sand, soda, ash). Transfer to proper containers for disposal, use non-sparking tools. Keep spills out of sewers & open bodies of water. Remove saturated clothing and wash affected skin areas with soap and water. Wear proper protective equipment. Contain and absorb using sand, earth or other inert material. Stop spill at source if possible. Prevent from entering drains, sewers, streams or other bodies of water. Wash down area with water. If contamination of sewers or waterways has occurred advise the local emergency services. Transfer spilled material into clean labelled container for disposal.



SECTION 14 TRANSPORT INFORMATION

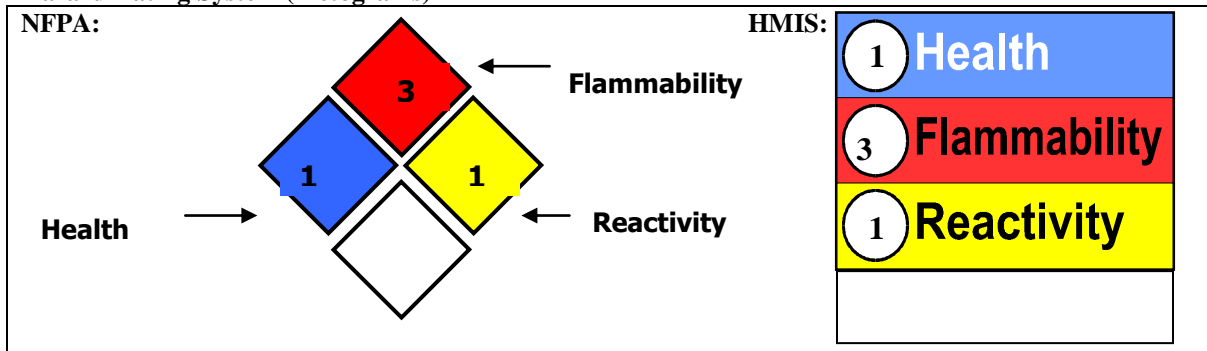
UN Number : 1993
 UN Proper Shipping Name: : Flammable liquids, n.o.s., (ethyl methacrylate, hydroxy propyl methacrylate), 3, UN1993, PGII
 Class and subsidiary risk : 3
 Packing Group : II
 Special precautions for user : See above; Flashpoint 20° C
 Hazchem Code : 3(Y)E

SECTION 15 REGULATORY INFORMATION

Regulatory status: Not Classified as a Schedule 5 poison according to the criteria of the SUSDP. Classified as Hazardous according to the criteria of the NOHSC.

SECTION 16 OTHER INFORMATION

EINECS: European Inventory:  	Acrylic Liquid: <ul style="list-style-type: none"> HAZARD SYMBOLS: Xi, F: Irritant, Highly Flammable RISK PHRASES: R11: highly flammable, R36/37/38: Irritating to eyes, respiratory system and skin, R43: May cause sensitization by skin contact SAFETY PHRASES: S9: keep container in a well ventilated place, S16: keep away from sources of ignition- no smoking, S29: do not empty into drains, S33: take precautionary measures against static discharges, S36/37/39: wear suitable protective clothing, gloves and eye/face protection, S45: In case of accident or if you feel unwell, seek medical advise immediately (show the label where possible)
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Hazard Rating System (Pictograms)

Date of preparation or last revision of this MSDS : January 14, 2010

CONTACT POINT: +61 3 5428 3988

EMERGENCY: +61 (0)418 362 482

This MSDS has been prepared from current technical data and summarises at the date of issue our best knowledge of the health and safety information of the product, and in particular how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request

End of MSDS Acrylic Bonding Liquid/Plasti-set Monomer