



SAFETY DATA SHEET

PLASTIC WELDER ADHESIVE

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

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2 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
METHACRYLIC ACID	201-204-4	79-41-4	1-10%	C;R35 Xn;R21/22
METHYL METHACRYLATE	201-297-1	80-62-6	30-60%	F;R11 R43 Xi;R37/38

The Full Text for all R-Phrases are Displayed in Section 16

3 HAZARDS IDENTIFICATION

Highly flammable. May cause sensitisation by skin contact. Irritating to respiratory system and skin.

CLASSIFICATION Xi;R37/38. R43. F;R11.

4 FIRST-AID MEASURES

GENERAL INFORMATION

Avoid contact with skin and eyes. Do not breathe vapour/spray. In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

INHALATION

Move the exposed person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Contact physician if discomfort continues.

INGESTION

Do not induce vomiting. Drink plenty of water. Get medical attention.

SKIN CONTACT

Remove affected person from source of contamination. Wash skin thoroughly with soap and water for several minutes. Contact physician if irritation persists.

EYE CONTACT

Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention. Contact physician if irritation persists.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Extinguish with foam, carbon dioxide or dry powder.

SPECIAL FIRE FIGHTING PROCEDURES

Keep up-wind to avoid fumes. Avoid water in straight hose stream; will scatter and spread fire. Cool containers exposed to flames with water until well after the fire is out. Keep run-off water out of sewers and water sources. Dike for water control.

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SPECIFIC HAZARDS

Highly flammable. Avoid breathing fire vapours. May travel considerable distance to source of ignition and flash back. Polymerises generating heat.

PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Highly Flammable Warn everybody of potential hazards and evacuate if necessary. Remove sources of ignition. Provide adequate ventilation. Avoid contact with skin and eyes. Avoid inhalation of spray mist and contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet.

ENVIRONMENTAL PRECAUTIONS

Do not allow to enter drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

SPILL CLEAN UP METHODS

Absorb spillage with non-combustible, absorbent material. Transfer to a container for disposal. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded. Avoid contact with skin and eyes. Take precautionary measures against static discharges. Storage tanks and other containers must be grounded. Do not smoke, use naked flames or other sources of ignition. Observe good industrial hygiene practices.

STORAGE PRECAUTIONS

Store in tightly closed original container in a cool, dry well-ventilated place.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	LT - ppm	LT - mg/m3	ST - ppm	ST - mg/m3
METHYL METHACRYLATE	OES	50 ppm	208 mg/m3	100 ppm	416 mg/m3
METHACRYLIC ACID	OES	20 ppm	72 mg/m3	40 ppm	143 mg/m3

PROCESS CONDITIONS

Provide eyewash, quick drench.

ENGINEERING MEASURES

Provide adequate general and local exhaust ventilation.

RESPIRATORY EQUIPMENT

If ventilation is insufficient, suitable respiratory protection must be provided.

HAND PROTECTION

Use protective gloves made of: Rubber or plastic.

EYE PROTECTION

Wear approved chemical safety goggles where eye exposure is reasonably probable.

HYGIENE MEASURES

Keep away from food, drink and animal feeding stuffs. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Do not eat, drink or smoke when using the product. Change work clothing daily before leaving work place.

SKIN PROTECTION

Wear apron or protective clothing in case of contact.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Paste		
COLOUR	White / off-white		
ODOUR	Slightly pungent odour		
BOILING POINT (°C)	101	RELATIVE DENSITY	1.03 20 °C
VAPOUR DENSITY (air=1)	>1	VAPOUR PRESSURE	28 mmHg 20

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EVAPORATION RATE	3 (butyl acetate =1)	pH-VALUE, DILUTED SOLUTION	30.-3.5 5%
VISCOSITY	40,000-60,000 cps 25	FLASH POINT (°C)	10 TCC (Tag closed cup).
FLAMMABILITY LIMIT - LOWER(%)	2.1	FLAMMABILITY LIMIT - UPPER(%)	12.5

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use. May polymerise.

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition. Avoid excessive heat for prolonged periods of time. Avoid exposure to high temperatures or direct sunlight. Heating will generate vapours which may form explosive vapour/air mixtures.

HAZARDOUS POLYMERISATION

May polymerise.

MATERIALS TO AVOID

Avoid contact with oxidisers or reducing agents. Bases, alkalies (inorganic). Bases, alkalies (organic).

HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

11 TOXICOLOGICAL INFORMATION

Name METHYL METHACRYLATE

Toxic Dose 1 - LD 50 7872 mg/kg (oral rat)

Toxic Conc. - LC 50 7093 ppm/4h (inh-rat)

Name METHACRYLIC ACID

Toxic Dose 1 - LD 50 1060 mg/kg (oral rat)

INHALATION

In high concentrations, vapours are narcotic and may cause headache, fatigue, dizziness and nausea. In high concentrations, vapours are anaesthetic and may cause headache, fatigue, dizziness and central nervous system effects.

INGESTION

Irritating. May cause nausea, stomach pain and vomiting.

SKIN CONTACT

May be absorbed through the skin. Irritating to skin. Prolonged or repeated exposure may cause severe irritation. May cause sensitisation by skin contact. Risk of sensitisation or allergic reactions among sensitive individuals.

EYE CONTACT

Irritating to eyes. Risk of corneal damage.

TARGET ORGANS

Prolonged or repeated exposure may cause: May cause damage to the liver and kidneys. Central nervous system. Respiratory system, lungs.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

Avoid release to the environment.

MOBILITY

Do not discharge into drains, water courses or onto the ground.

BIOACCUMULATION

Methyl methacrylate monomer: LC50/96h/fathead minnows = 150 ppm, LC50/96h/bluegill sunfish = 232ppm. Methyl methacrylate monomer: LC50/96h/rainbow trout = >79mg/l

DEGRADABILITY

Methyl methacrylate monomer : Biochemical oxygen demand within 5 days (BOD5) = .14 g/g - 0.9 g/g.

WATER HAZARD CLASSIFICATION

WGK 1 WGH Nr. 154

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

PLASTIC WELDER ADHESIVEWASTE CLASS
08 04 09**14 TRANSPORT INFORMATION**

PROPER SHIPPING NAME	Adhesives.		
UN NO. ROAD	1133	ADR CLASS NO.	3
ADR PACK GROUP	II	RID CLASS NO.	3
RID PACK GROUP	II	UN NO. SEA	1133
IMDG CLASS	3	IMDG PACK GR.	II
UN NO. AIR	1133	ICAO CLASS	3
AIR PACK GR.	II		

15 REGULATORY INFORMATION

LABELLING



Irritant



Highly Flammable

CONTAINS

METHACRYLIC ACID
METHYL METHACRYLATE

RISK PHRASES

R11	Highly flammable.
R43	May cause sensitisation by skin contact.
R37/38	Irritating to respiratory system and skin.

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.

16 OTHER INFORMATION

REVISION DATE 10/08/2005

REV. NO./REPL. SDS GENERATED 3

DATE 17.02.2005

RISK PHRASES IN FULL

R11	Highly flammable.
R21/22	Harmful in contact with skin and if swallowed.
R35	Causes severe burns.
R37	Irritating to respiratory system.
R37/38	Irritating to respiratory system and skin.
R43	May cause sensitisation by skin contact.

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DISCLAIMER

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.