

Material Safety Data Sheet

Epoxy.com Product #693

Reviewed on 01/13/2010

• **1 Identification of substance:**

• **Product details:**

- **Trade name:** Epoxy.com Product #693
- **Application of the substance /** the preparation Coating

• **Manufacturer/Supplier:**

Epoxy.com
A Division of Epoxy Systems, Inc.
20774 W. Pennsylvania Ave. Dunnellon, Fl 34431

- Tel.: 352-489-1666
Fax: 352-489-1625
- **Information department:** Norman L. Lambert, Jr.
- **Emergency information:** 800-633-8253

• **2 Composition/Data on components:**

- **Chemical characterization**
- **Description:** methyl methacrylate resin

Dangerous components:

80-62-6 methyl methacrylate
50-100 %
Xi, F; R 11-37/38-43
EINECS: 201-297-1
38668-48-3 1,1'-(p-tolylimino)dipropan-2-ol
< 2.5 %
T, Xi; R 25-36-52/53
EINECS: 254-075-1
123-81-9 ethylene di(S-thioacetate)

< 0.5 %
T, Xi, N; R 23/24/25-36/38-51/53
EINECS: 204-653-4

- **Additional information**

For the wording of the listed risk phrases refer to section 16.

- **3 Hazards identification**

- **Hazard description:**

Xi Irritant

F Highly flammable

- **Information pertaining to particular dangers for man and environment**

The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 11 Highly flammable.

R 37/38 Irritating to respiratory system and skin.

R 43 May cause sensitization by skin contact.

- **Classification system**

- **NFPA ratings (scale 0-4)**

Health = 1

Fire = 3

Reactivity = 0

- **4 First aid measures**

- **General information**

Immediately remove any clothing soiled by the product. Take affected persons out into the fresh air.

- **After inhalation**

Take affected persons into fresh air and keep quiet. Seek medical treatment in case of complaints.

- **After skin contact**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

- **After eye contact**

Rinse opened eye for several minutes under running water. Then consult a doctor.

- **After swallowing** Seek immediate medical advice.

- **Information for doctor**

No particular measures are known - treat according to

symptoms.

- **The following symptoms may occur:** Headache

- **5 Fire fighting measures**

- **Suitable extinguishing agents**

CO₂, sand, extinguishing powder. Do not use water.

- **For safety reasons unsuitable extinguishing agents**

Water with full jet.

- **Special hazards caused by the material, its products of combustion or resulting gases:**

Formation of toxic gases is possible during heating or in case of fire.

- **Protective equipment:**

Do not inhale explosion gases or combustion gases.

- **Additional information**

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

- **6 Accidental release measures**

- **Person-related safety precautions:**

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources

Ensure adequate ventilation

- **Measures for environmental protection:**

Do not allow product to reach sewage system or any water course.

Do not allow to penetrate the ground/soil.

- **Measures for cleaning/collecting:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

Collect in a suitable container and dispose of as described at paragraph 13.

- **Additional information:** Clean the accident area carefully.

- **7 Handling and storage**

- **Handling**
- **Information for safe handling:**

Keep receptacles tightly sealed.
Store in cool, dry place in tightly closed receptacles.
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
- **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Fumes can combine with air to form an explosive mixture.
Flammable gas-air mixtures may be formed in empty receptacles.
- **Storage**
- **Requirements to be met by storerooms and receptacles:**

Store in a cool location.
Keep containers securely closed and dry, store at 5 - 20°C.
Store only in the original receptacle.
Provide floor trough without outlet.
- **Information about storage in one common storage facility:**

Store away from oxidizing agents.
- **Further information about storage conditions:**

Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
Store only outside or in explosion proof rooms.

- **8 Exposure controls and personal protection**

- **Additional information about design of technical systems:**

No further data; see item 7.

Components with limit values that require monitoring at the workplace:

80-62-6 methyl methacrylate (50-100%)
PEL: 410 mg/m³, 100 ppm
REL: 410 mg/m³, 100 ppm
TLV: Short-term value: 410 mg/m³, 100 ppm
Long-term value: 205 mg/m³, 50 ppm

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- **Additional information:**
The lists that were valid during the creation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures**
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.
Store protective clothing separately.
Immediately remove all soiled and contaminated clothing
- **Breathing equipment:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Recommended filter device for short term use:**
Combination filter A-P2
- **Protection of hands:**
Only use chemical-protective gloves with CE-labeling of category III.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**
Butyl rubber, BR
Nitrile rubber, NBR
Recommended thickness of the material: ≥ 0.5 mm
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Not suitable are gloves made of the following materials:**
Leather gloves

Strong gloves

- **Eye protection:** Tightly sealed goggles.
- **Body protection:** Protective work clothing.

• **9 Physical and chemical properties:**

• **General Information**

- **Form:** Viscous
- **Color:**
bluish
Cloudy
- **Odor:** Ester-like

<u>Method</u>	<u>Value/Range</u>	<u>Unit</u>
• Change in condition		
• Melting point/Melting range:	undetermined	
• Boiling point/Boiling range:		100°C
• Flash point:		10°C
• Ignition temperature:		430°C
• Auto igniting:	Product is not self-igniting.	
• Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.	
• Explosion limits:		
• Lower:		2.1 Vol %
• Upper:		12.5 Vol %
• Vapor pressure:	at 20°C	47 hPa
• Density:	at 20°C	1 g/cm ³
• Solubility in / Miscibility with		
• Water:	Not miscible or difficult to mix	
• Viscosity:		
• kinematic:	at 23°C	40 s
	ISO 4 mm	

• **10 Stability and reactivity**

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Materials to be avoided:**
acids
strong oxidizing agents
- **Dangerous reactions**
Violent reactions with strong alkalis and oxidizing agents
Reacts with amines
- **Dangerous products of decomposition:**
in the event of fire:
toxic gases and vapours
Flammable gases/vapors

- **11 Toxicological information**

- **Acute toxicity:**
LD/LC50 values that are relevant for classification:
80-62-6 methyl methacrylate
Oral: LD50: > 5000 mg/kg (rat)
Dermal: LD50: > 5000 mg/kg (rab)
Inhalative: LC50/4 h: 7093 mg/l (rat)
38668-48-3 1,1'-(p-tolylimino)dipropan-2-ol
Oral: LD50: 100 mg/kg (rat)
123-81-9 ethylene di(S-thioacetate)
Oral: LD50: 330 mg/kg (rat)
- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Irritant

- **12 Ecological information:**

- **Ecotoxicological effects:** Not determined
Aquatic toxicity:
80-62-6 methyl methacrylate

BSB5-Wert: 0.14 g/g (-)
EC0: 100 mg/l (Pseudomonas putida)
EC3: (192h) 37 mg/l (Scenedesmus quadricauda)
EC50: (96h) 170 mg/l (Selenastrum capricornutum)
EC50: (48h) 69 mg/l (daphnia)
LC50: 350 mg/l (Leuciscus idus)
LC50 (96h): >79 mg/l (Onchorhynchus mykiss)
LC50 (96h): 232 mg/l (Lepomis macrochirus (bluegill))
LC50 (96h): 277 mg/l (Goldfish)
38668-48-3 1,1'-(p-tolylimino)dipropan-2-ol
BSB-5: 11 mg O2/g (-)
CSB: 2360 mg O2/g (-)
EC50: (48h) 28.8 mg/l (Daphnia magna)
123-81-9 ethylene di(S-thioacetate)
LC50(48h): 4.85 mg/l (fish)

- **General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.
Do not allow product to reach ground water, water course or sewage system.

- **13 Disposal considerations**

- **Product:**

- **Recommendation**

Must be specially treated adhering to official regulations.

- **Uncleaned packagings:**

- **Recommendation:**

Disposal must be made according to official regulations.

- **14 Transport information**

- **DOT regulations:**

- **Hazard class:** 3
- **Identification number:** UN1866
- **Packing group:** II
- **Proper shipping name (technical name):**
RESIN SOLUTION
- **Label** 3

- **Land transport ADR/RID (cross-border)**

- **ADR/RID class:** 3 (F1) Flammable liquids
- **Danger code (Kemler):** 33
- **UN-Number:** 1866
- **Packaging group:** II
- **Description of goods:** 1866 RESIN SOLUTION

- **Maritime transport IMDG:**
- **IMDG Class:** 3
- **UN Number:** 1866
- **Label** 3
- **Packaging group:** II
- **EMS Number:** F-E, S-E
- **Marine pollutant:** No
- **Propper shipping name:** RESIN SOLUTION (METHYL METHACRYLATE MONOMER, STABILIZED)

- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1866
- **Label** 3
- **Packaging group:** II
- **Propper shipping name:** RESIN SOLUTION

- ***15 Regulations**

- **Cancerogenity categories**

- **EPA (Environmental Protection Agency)**

80-62-6 methyl methacrylate: NL

111-76-2 2-butoxyethanol: CBD

- **IARC (International Agency for Research on Cancer)**

80-62-6 methyl methacrylate: 3

9011-14-7 Acrylglaspulver: 3

128-37-0 2,6-di-tert-butyl-p-cresol: 3

111-76-2 2-butoxyethanol: 3

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **TLV (Threshold Limit Value established by ACGIH)**

80-62-6 methyl methacrylate: A4

128-37-0 2,6-di-tert-butyl-p-cresol: A4

111-76-2 2-butoxyethanol: A3

- **MAK (German Maximum Workplace Concentration)**

128-37-0 2,6-di-tert-butyl-p-cresol: 4

111-76-2 2-butoxyethanol: 4

- **NIOSH-Ca (National Institute for Occupational Safety**

and Health)

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

• **Markings according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials

• **Code letter and hazard designation of product:**

Xi Irritant F Highly flammable

• **Hazard-determining components of labeling:** methyl methacrylate

• **Risk phrases:**

11 Highly flammable.

37/38 Irritating to respiratory system and skin.

43 May cause sensitization by skin contact.

• **Safety phrases:**

16 Keep away from sources of ignition - No smoking.

23 Do not breathe gas/fumes/vapor/spray.

24 Avoid contact with skin.

33 Take precautionary measures against static discharges.

37 Wear suitable gloves.

60 This material and its container must be disposed of as hazardous waste.

• **National regulations**

• **Technical instructions (air):**

• **VOC USA %** 0.1 g/l / 0.00 lb/gl

• **Water hazard class:**

Water hazard class 2 (Self-assessment): hazardous for water.

• **Sara**

Section 355 (Extremely hazardous substances):

None of the ingredients is listed.

Section 313 (Specific toxic chemical listings):

80-62-6 methyl methacrylate

TSCA (Toxic Substances Control Act):

80-62-6 methyl methacrylate

21245-02-3 2-ethylhexyl 4-(dimethylamino)benzoate

9011-14-7 Acrylglaspulver

2082-81-7 1,4-Butandiol dimethacrylat
3077-12-1 2,2'-[(4-methylphenyl)imino]bisethanol
Paraffine
31570-04-4 Tris(2,4-di-tert-butylphenyl)phosphit
Chemicals known to cause cancer:
None of the ingredients is listed.

• **16 Other information:**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Changes made since last issue dated 17.10.2006 at the following points: *

• **Relevant R-phrases**

11 Highly flammable.
23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
25 Toxic if swallowed.
36 Irritating to eyes.
36/38 Irritating to eyes and skin.
37/38 Irritating to respiratory system and skin.
43 May cause sensitization by skin contact.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

• *** Data compared to the previous version altered.**