1 Identification of substance:

- Product details:

  - Trade name: Epoxy.com Product #692
  - Application of the substance / the preparation: Coating

- Manufacturer:
  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:

<table>
<thead>
<tr>
<th>Component</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>80-62-6 methyl methacrylate</td>
<td>25-50 %</td>
</tr>
<tr>
<td>Xi, F; R 11-37/38-43</td>
<td></td>
</tr>
<tr>
<td>EINECS: 201-297-1</td>
<td></td>
</tr>
<tr>
<td>103-11-7 2-ethylhexyl acrylate</td>
<td>25-50 %</td>
</tr>
<tr>
<td>Xi; R 37/38-43</td>
<td></td>
</tr>
</tbody>
</table>
EINECS: 203-080-7

- **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:
  Ensure adequate ventilation
  Keep away from ignition sources
  Wear protective clothing.
- 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.
  Do not flush with water or aqueous cleansing agents
  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 - 25°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 (25-50%)
  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
  SEN
• **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. Immediately remove all soiled and contaminated clothing. Store protective clothing separately.

• **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**
  Nitrile rubber, NBR
  Butyl rubber, BR
  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 trough 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:** Goggles recommended during refilling.
• **Body protection:** Protective work clothing.

### 9 Physical and chemical properties:

#### General Information

- **Form:** Fluid
- **Color:** Whitish Transparent
- **Odor:** Ester-like

<table>
<thead>
<tr>
<th>Method</th>
<th>Value/Range Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Change in condition</td>
<td></td>
</tr>
<tr>
<td>Melting point/Melting range:</td>
<td>undetermined</td>
</tr>
<tr>
<td>Boiling point/Boiling range:</td>
<td>101°C</td>
</tr>
<tr>
<td>Flash point:</td>
<td>10°C</td>
</tr>
<tr>
<td>DIN 53213</td>
<td></td>
</tr>
<tr>
<td>Ignition temperature:</td>
<td>245°C</td>
</tr>
<tr>
<td>Auto igniting:</td>
<td>Product is not self-igniting.</td>
</tr>
</tbody>
</table>

#### Danger of explosion:
Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

- **Explosion limits:**
  - Lower: 0.8 Vol %
  - Upper: 12.5 Vol %

- **Vapor pressure:** at 25°C 47 hPa
- **Density:** at 25°C 0.99 g/cm³ DIN 51757

- **Solubility in / Miscibility with**
  - Water: at 20°C max 16 g/l
  - Organic solvents: Soluble in many organic solvents

### 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 vapors
  - Flammable gases/vapors

- **11 Toxicological information**

  - **Acute toxicity:**
    **LD/LC50 values that are relevant for classification:**
    
    | Material                        | Oral: LD50     | Dermal: LD50  | Inhalative: LC50/4 h |
    |--------------------------------|---------------|---------------|----------------------|
    | 80-62-6 methyl methacrylate    | > 5000 mg/kg  | > 5000 mg/kg  | 7093 mg/l            |
    | 103-11-7 2-ethylhexyl acrylate |               |               |                      |

  - **Primary irritant effect:**
    - on the skin: Irritant to skin and mucous membranes.
    - on the eye: No 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
  - **Acquatic toxicity:** Not determined
80-62-6 methyl methacrylate
BSB5-Wert: 0.14 g/g (-)
EC0: 100 mg/l (Pseudomonas putida)
EC3: (192h) 37 mg/l (Scenedesmus quadicauda)
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)
103-11-7 2-ethylhexyl acrylate
EC0: (192h) 0.06 mg/l (Microcystis aeroginosa)
EC50: (48h) 17.5 mg/l (daphnia)
EC50: (0.5h) > 1000 mg/l (Pseudomonas putida)
EC50 (72h): 44 mg/l (Scenedesmus subspicatus)
LC50: (48h) 23 mg/l (Leuciscus idus)

- **General notes:**
  Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it 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
**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
- Proper shipping name: RESIN SOLUTION

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

**Cancerogenity categories**

**EPA (Environmental Protection Agency)**

- 80-62-6 methyl methacrylate: E;NL

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

- 80-62-6 methyl methacrylate: 3
- 103-11-7 2-ethylhexyl acrylate: 3
- 128-37-0 2,6-di-tert-butyl-p-cresol: 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

MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

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
  2-ethylhexyl acrylate

- **Risk phrases:**
  11 Highly flammable.
  37/38 Irritating to respiratory system and skin.
  43 May cause sensitization by skin contact.

- **Safety phrases:**
  9 Keep container in a well-ventilated place.
  16 Keep away from sources of ignition - No smoking.
  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 1 (Self-assessment): slightly 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
103-11-7 2-ethylhexyl acrylate
103-83-3 benzylidimethylamine
3077-12-1 2,2'-(4-methylphenyl)iminobisethanol
2082-81-7 1,4-Butandioldimethacrylat

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 16.11.2007 at the following points: *

- **Relevant R-phrases**
  11 Highly flammable.
  37/38 Irritating to respiratory system and skin.
  43 May cause sensitization by skin contact.

- * Data compared to the previous version altered.