Material Safety Data Sheet
According to EG 1907/2006

Date Updated: 25/05/2007
Version: 1.0

1. Identification of the substance and of the company

<table>
<thead>
<tr>
<th>Product name</th>
<th>Poly(methyl methacrylate)</th>
</tr>
</thead>
</table>

Manufacturer / supplier identification

<table>
<thead>
<tr>
<th>Company</th>
<th>PSS Polymer Standards Service GmbH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>In der Dalheimer Wiese 5</td>
</tr>
<tr>
<td></td>
<td>D - 55023 Mainz</td>
</tr>
<tr>
<td>Technical Phone</td>
<td>+49 6131 - 96239 - 0</td>
</tr>
<tr>
<td>Fax</td>
<td>+49 6131 - 96239 - 11</td>
</tr>
<tr>
<td>Email</td>
<td><a href="mailto:Info@polymer.de">Info@polymer.de</a></td>
</tr>
<tr>
<td>Emergency Phone</td>
<td>+49 6131 - 1924 - 0</td>
</tr>
</tbody>
</table>

2. Composition / information on ingredients

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>9011-14-7</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC No.</td>
<td>none</td>
</tr>
<tr>
<td>Molecular formula</td>
<td>([\text{CH}_2\text{C(CH}_3\text{)(CO}_2\text{CH}_3\text{)}]_n)</td>
</tr>
</tbody>
</table>

3. Hazards identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT
Not hazardous according to Directive 67/548/EEC.

4. First aid measures

AFTER INHALATION
If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

AFTER SKIN CONTACT
In case of contact, immediately wash skin with soap and copious amounts of water.

AFTER EYE CONTACT
In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

AFTER INGESTION
If swallowed, wash out mouth with water provided person is conscious. Call a physician.

5. Fire fighting measures

CONDITIONS OF FLAMMABILITY
Under fire conditions, material may decompose to form flammable and/or explosive mixtures in air.

EXTINGUISHING MEDIA
Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

SPECIAL RISKS
Specific Hazard(s): Emits toxic fumes under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6. Accidental release measures

PROCEDURE(S) OF PERSONAL PRECAUTION(S)
Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.
METHODS FOR CLEANING UP
Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

7. Handling and storage

HANDLING
Directions for Safe Handling: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

STORAGE
Conditions of storage: Keep tightly closed.

8. Exposure controls / personal protection

ENGINEERING CONTROLS
Safety shower and eye bath. Mechanical exhaust required.

GENERAL HYGIENE MEASURES
Wash thoroughly after handling.

PERSONAL PROTECTIVE EQUIPMENT
Respiratory Protection: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks.

HAND PROTECTION
Protective gloves.

EYE PROTECTION
Chemical safety goggles.

9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Physical State: Solid / Fluid</td>
</tr>
<tr>
<td></td>
<td>Colour: White / Transparent</td>
</tr>
<tr>
<td></td>
<td>Form: Powder / Liquid</td>
</tr>
<tr>
<td>pH</td>
<td>N/A</td>
</tr>
<tr>
<td>BP/BP Range</td>
<td>N/A</td>
</tr>
<tr>
<td>Mp/Mp Range</td>
<td>N/A</td>
</tr>
<tr>
<td>Flash Point</td>
<td>&gt; 250 °C</td>
</tr>
<tr>
<td>Flammability</td>
<td>N/A</td>
</tr>
<tr>
<td>Autoignition Temp.</td>
<td>304 °C</td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>N/A</td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>N/A</td>
</tr>
<tr>
<td>Explosion Limits</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>N/A</td>
</tr>
<tr>
<td>SG/Density</td>
<td>1.2 g/cm³</td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>N/A</td>
</tr>
<tr>
<td>Viscosity</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>N/A</td>
</tr>
<tr>
<td>Saturated Vapor Conc.</td>
<td>N/A</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>N/A</td>
</tr>
<tr>
<td>Bulk Density</td>
<td>N/A</td>
</tr>
<tr>
<td>Decomposition Temp.</td>
<td>N/A</td>
</tr>
</tbody>
</table>
Solvent Content  N/A  
Water Content  N/A  
Surface Tension  N/A  
Conductivity  N/A  
Miscellaneous Data  N/A  
Solubility in Water:  Insoluble  
Solubility: Solvent  Toluene, Tetrahydrofurane  

10. Stability and reactivity  

STABILITY  
- Stable: Stable  
- Materials to Avoid: Strong oxidizing agents, Strong acids.  

HAZARDOUS DECOMPOSITION PRODUCTS  

HAZARDOUS POLYMERIZATION  
- Will not occur.  

11. Toxicological information  

RTECS NUMBER: TR0400000  

SIGNS AND SYMPTOMS OF EXPOSURE  
- To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.  

ROUTE OF EXPOSURE  
- Skin contact: May cause skin irritation  
- Skin Absorption: May be harmful if absorbed through the skin.  
- Eye Contact: May cause eye irritation.  
- Inhalation: Material may be irratating to mucous membranes and upper respiratoy tract. May be harmful if inhaled.  
- Ingestion: May be harmful if swallowed.  

CHRONIC EXPOSURE - CARCINOGEN  
- Result: This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.  
- Rat  
  - Route of Application: Implant  
  - Result: Tumorigenic:Equivocal tumorigenic agent by RTECS criteria. Tumorigenic:Tumors at site or application.  
- Mouse  
  - Route of Application: Implant  
  - Result: Tumorigenic:Equivocal tumorigenic agent by RTECS criteria. Tumorigenic:Tumors at site or application.  

IARC CARCINOGEN LIST  
- Rating: Group 3  

12. Ecological information  

No data available  

13. Disposal considerations  

SUBSTANCE DISPOSAL
Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

### 14. Transport information

| RID/ADR | Non-hazardous for road transport. |
| IMDG    | Non-hazardous for sea transport.  |
| IATA    | Non-hazardous for air transport.  |

### 15. Regulatory information

- Not hazardous according to Directive 67/548/EEC.
- Caution: Substance not yet fully tested (EU).

#### COUNTRY SPECIFIC INFORMATION

- Germany
  - WGK: No hazard to waters.
  - ID-Number: 766
  - KBwS-Decision

### 16. Other information

**WARRANTY**

The information in this document is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product. PSS GmbH shall not be held liable for any damage resulting from handling or from contact with the above product.

**DISCLAIMER**

For R&D use only. Not for drug, household or other uses.