

# Material Safety Data Sheet

According to EG 1907/2006



Date Updated: 02/03/2009

Version: 1.0

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| <b>1. Identification of the substance and of the company</b>                                                                                   |                                                                                   |
| Product name                                                                                                                                   | Poly(isobutylene)                                                                 |
| <b>Manufacturer / supplier identification</b>                                                                                                  |                                                                                   |
| Company                                                                                                                                        | PSS Polymer Standards Service GmbH<br>In der Dalheimer Wiese 5<br>D - 55023 Mainz |
| Technical Phone                                                                                                                                | +49 6131 - 96239 - 0                                                              |
| Fax                                                                                                                                            | +49 6131 - 96239 -11                                                              |
| Email                                                                                                                                          | Info@polymer.de                                                                   |
| Emergency Phone                                                                                                                                | +49 6131 - 1924 - 0                                                               |
| <b>2. Composition / information on ingredients</b>                                                                                             |                                                                                   |
| CAS-No.:                                                                                                                                       | 9003-27-4                                                                         |
| EC No.:                                                                                                                                        | none                                                                              |
| Molecular formula:                                                                                                                             | C <sub>4</sub> H <sub>8</sub>                                                     |
| <b>3. Hazards identification</b>                                                                                                               |                                                                                   |
| SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT<br>This substance is not classified as dangerous according to Directive 67/548/EEC |                                                                                   |
| <b>4. First aid measures</b>                                                                                                                   |                                                                                   |
| AFTER INHALATION<br>If breathed in, move person into fresh air. If not breathing give artificial respiration.                                  |                                                                                   |
| AFTER SKIN CONTACT<br>Wash off with soap and plenty of water.                                                                                  |                                                                                   |
| AFTER EYE CONTACT<br>Flush eyes with water as a precaution.                                                                                    |                                                                                   |
| AFTER INGESTION<br>If swallowed, never give anything by mouth to an unconscious person. Rinse mouth with water.                                |                                                                                   |
| <b>5. Fire fighting measures</b>                                                                                                               |                                                                                   |
| CONDITIONS OF FLAMMABILITY<br>N/A                                                                                                              |                                                                                   |
| EXTINGUISHING MEDIA<br>Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.                                                |                                                                                   |
| SPECIAL RISKS<br>N/A                                                                                                                           |                                                                                   |
| SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS<br>Wear self contained breathing apparatus for fire fighting if necessary.                       |                                                                                   |
| <b>6. Accidental release measures</b>                                                                                                          |                                                                                   |
| ENVIRONMENTAL PRECAUTIONS<br>Do not let product enter drains.                                                                                  |                                                                                   |
| PROCEDURE(S) OF PERSONAL PRECAUTION(S)<br>Avoid breathing vapors, mist or gas.                                                                 |                                                                                   |

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| <b>METHODS FOR CLEANING UP</b><br>Keep in suitable, closed containers for disposal.                                                                                                                                                                                                                                                              |                                                                      |
| <b>7. Handling and storage</b>                                                                                                                                                                                                                                                                                                                   |                                                                      |
| <b>HANDLING</b><br>Normal measures for preventive fire protection.                                                                                                                                                                                                                                                                               |                                                                      |
| <b>STORAGE</b><br>Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.                                                                                                                                             |                                                                      |
| <b>8. Exposure controls / personal protection</b>                                                                                                                                                                                                                                                                                                |                                                                      |
| <b>ENGINEERING CONTROLS</b><br>Safety shower and eye bath. Mechanical exhaust required.                                                                                                                                                                                                                                                          |                                                                      |
| <b>GENERAL HYGIENE MEASURES</b><br>General industrial hygiene practice.                                                                                                                                                                                                                                                                          |                                                                      |
| <b>PERSONAL PROTECTIVE EQUIPMENT</b><br>Respiratory Protection: Respiratory protection is not required. Where protection is desired, use multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). |                                                                      |
| <b>HAND PROTECTION</b><br>For prolonged or repeated contact use protective gloves.                                                                                                                                                                                                                                                               |                                                                      |
| <b>EYE PROTECTION</b><br>Chemical safety goggles.                                                                                                                                                                                                                                                                                                |                                                                      |
| <b>9. Physical and chemical properties</b>                                                                                                                                                                                                                                                                                                       |                                                                      |
| Appearance                                                                                                                                                                                                                                                                                                                                       | Physical State:<br>Form: liquid/solid, clear<br>Colour: light yellow |
| Property                                                                                                                                                                                                                                                                                                                                         | Value                                                                |
| pH                                                                                                                                                                                                                                                                                                                                               | no data available                                                    |
| BP/BP Range                                                                                                                                                                                                                                                                                                                                      | no data available                                                    |
| Mp/Mp Range                                                                                                                                                                                                                                                                                                                                      | no data available                                                    |
| Flash Point                                                                                                                                                                                                                                                                                                                                      | no data available                                                    |
| Flammability                                                                                                                                                                                                                                                                                                                                     | no data available                                                    |
| Autoignition Temp.                                                                                                                                                                                                                                                                                                                               | no data available                                                    |
| Oxidizing Properties                                                                                                                                                                                                                                                                                                                             | no data available                                                    |
| Explosive Properties                                                                                                                                                                                                                                                                                                                             | no data available                                                    |
| Explosion Limits                                                                                                                                                                                                                                                                                                                                 | no data available                                                    |
| Vapor Pressure                                                                                                                                                                                                                                                                                                                                   | no data available                                                    |
| SG/Density                                                                                                                                                                                                                                                                                                                                       | no data available                                                    |
| Partition Coefficient                                                                                                                                                                                                                                                                                                                            | no data available                                                    |
| Viscosity                                                                                                                                                                                                                                                                                                                                        | no data available                                                    |
| Vapor Density                                                                                                                                                                                                                                                                                                                                    | no data available                                                    |
| Saturated Vapor Conc.                                                                                                                                                                                                                                                                                                                            | no data available                                                    |
| Evaporation Rate                                                                                                                                                                                                                                                                                                                                 | no data available                                                    |
| Bulk Density                                                                                                                                                                                                                                                                                                                                     | no data available                                                    |
| Decomposition Temp.                                                                                                                                                                                                                                                                                                                              | no data available                                                    |

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| Solvent Content                                                                                                                                                                                                                                                        | no data available |
| Water Content                                                                                                                                                                                                                                                          | no data available |
| Surface Tension                                                                                                                                                                                                                                                        | no data available |
| Conductivity                                                                                                                                                                                                                                                           | no data available |
| Miscellaneous Data                                                                                                                                                                                                                                                     | no data available |
| Solubility                                                                                                                                                                                                                                                             | Tetrahydrofuran   |
| <b>10. Stability and reactivity</b>                                                                                                                                                                                                                                    |                   |
| STABILITY<br>Stable: Stable under recommended storage conditions.<br>Materials to Avoid: Strong oxidizing agents.                                                                                                                                                      |                   |
| HAZARDOUS DECOMPOSITION PRODUCTS<br>Hazardous decomposition products formed under fire conditions. - Carbon oxides.                                                                                                                                                    |                   |
| HAZARDOUS POLYMERIZATION<br>N/A                                                                                                                                                                                                                                        |                   |
| <b>11. Toxicological information</b>                                                                                                                                                                                                                                   |                   |
| ACUTE TOXICITY<br>no data available                                                                                                                                                                                                                                    |                   |
| IRRITATION AND CORROSION<br>no data available                                                                                                                                                                                                                          |                   |
| SENSITISATION<br>no data available                                                                                                                                                                                                                                     |                   |
| CHRONIC EXPOSURE<br>IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.                                                                                      |                   |
| POTENTIAL HEALTH EFFECTS<br>Skin : May be harmful if absorbed through skin. May cause skin irritation.<br>Eye : May cause eye irritation.<br>Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.<br>Ingestion: May be harmful if swallowed. |                   |
| <b>12. Ecological information</b>                                                                                                                                                                                                                                      |                   |
| ELIMINATION INFORMATION (persistence and degradability)<br>no data available                                                                                                                                                                                           |                   |
| ECOTOXICITY EFFECTS<br>Toxicity to fish: LC50 - Oncorhynchus mykiss (rainbow trout) - > 5.600 mg/l - 96 h                                                                                                                                                              |                   |
| FURTHER INFORMATION ON ECOLOGY<br>no data available                                                                                                                                                                                                                    |                   |
| <b>13. Disposal considerations</b>                                                                                                                                                                                                                                     |                   |
| PRODUCT<br>Observe all federal, state, and local environmental regulations.                                                                                                                                                                                            |                   |
| CONTAMINATED PACKAGING<br>Dispose of as unused product.                                                                                                                                                                                                                |                   |
| <b>14. Transport information</b>                                                                                                                                                                                                                                       |                   |
| RID/ADR<br>Not dangerous goods                                                                                                                                                                                                                                         |                   |

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## IMDG

Not dangerous goods

## IATA

Not dangerous goods

## 15. Regulatory information

### LABELLING ACCORDING TO EC DIRECTIVES

Caution - substance not yet tested completely.

## 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.