

Material Safety Data Sheet

According to EG 1907/2006



Date Updated: 25/05/2007

Version: 1.0

Page 1 of 4

1. Identification of the substance and of the company	
Product name	Poly(styrene)
Manufacturer / supplier identification	
Company	PSS Polymer Standards Service GmbH In der Dalheimer Wiese 5 D - 55023 Mainz
Technical Phone	+49 6131 - 96239 - 0
Fax	+49 6131 - 96239 -11
Email	Info@polymer.de
Emergency Phone	+49 6131 - 1924 - 0
2. Composition / information on ingredients	
CAS-No.:	9003-53-6
EG/EC No.:	2028515
Molecular formula:	$[\text{CH}_2\text{CH}(\text{C}_6\text{H}_5)]_n$
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.	

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Page 2 of 4

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	
Appearance	Physical State: Solid / Fluid Colour: White / Transparent Form: Powder / Liquid
Property	Value
pH	N/A
BP/BP Range	N/A
Mp/Mp Range	N/A
Flash Point	N/A
Flammability	N/A
Autoignition Temp.	N/A
Oxidizing Properties	N/A
Explosive Properties	N/A
Explosion Limits	N/A
Vapor Pressure	N/A
SG/Density	N/A
Partition Coefficient	N/A
Viscosity	N/A
Vapor Density	N/A
Saturated Vapor Conc.	N/A
Evaporation Rate	N/A
Bulk Density	N/A
Decomposition Temp.	N/A

Material Safety Data Sheet

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Version: 1.0



Page 3 of 4

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.	
HAZARDOUS DECOMPOSITION PRODUCTS	
Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide.	
HAZARDOUS POLYMERIZATION	
Will not occur.	
11. Toxicological information	
RTECS NUMBER: WL6475000	
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 irritating to mucous membranes and upper respiratory 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: Tumors at site or application	
Tumorigenic: Equivocal tumorigenic agent by RTECS criteria.	
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.	

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Page 4 of 4

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: 3

Self-Classification

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.