

SAFETY DATA SHEET

COMPANY DETAILS

Manufacturer and supplier STYROVIT SPb Limited

Contact information

Address Mayakovskogo 31/01
St. Petersburg
Postcode 191014, RUSSIA
Telephone: +7 (812) 324 44 96
Fax: +7 (812) 315 54 21
E-mail: styrovit@penoplex.ru
Web: www.styrovit.ru

1. IDENTIFICATION OF THE SUBSTANCE

Product name General purpose polystyrene
Grades:
STYROVIT 102D, STYROVIT 104D,
STYROVIT 110B, STYROVIT 116B.

Use of the Substance Injection molding and extrusion of thermoplastic articles.

CAS number or other code	Chemical name of the substance
9003-56-6	Polystyrene

2. INFORMATION ON INGREDIENTS

Hazardous components

CAS number or other code	Chemical name of the substance	Maximal Concentration	Warning symbol, R phrases and other information
100-42-5	Styrene monomer	0.05%	Xn, 10, 20, 36/38

Further information

STYROVIT polystyrene may contain low levels of other components; performance additives are not classified as hazardous.

3. HAZARDS IDENTIFICATION

Swallowing:	Swallowing of the pellets does not present any known hazard.
Eye contact:	May cause physical irritation.
Dust Inhalation:	Dust may cause physical irritation of eyes, nose, throat and skin.
Skin contact:	Molten plastic causes severe burns.

4. FIRST AID

Swallowed

If ingested drink 1 or 2 glasses of water and call a physician.

Inhalation

If inhaled get the victim into fresh air as quickly as possible.

Skin contact

Remove and wash with water. If a rash develops call a physician.

Eye contact

Flush the open eyes with copious amounts of water for 15 min to ensure adequate flushing.

Burns

Cool rapidly with water and seek medical attention.

Information to doctor

Treat symptomatically.

5. FIRE FIGHTING MEASURES

Fire fighting media

Water, foam, dry chemical powder or carbon dioxide.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Keep away from combustible materials and ignition sources. Beware of dust accumulating in enclosed spaces. Wear rubber boots and gloves. During processing protect skin and eyes from contact with molten polystyrene by protective clothing.

Environmental precautions

Keep away from drains, water pools and the soil.

Methods for cleaning up

Sweep up material and put it into a container for disposal. Wash and ventilate the contaminated area.

Further precautions

Do not smoke or eat in the process area.

7. HANDLING AND STORAGE

Handling

Provide adequate ventilation in handling areas. Handle pellets in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of materials from the eyes, skin and clothing. Do not handle molten material without appropriate protective equipment.

Storage

Store in well-ventilated clean, dry warehouses at room temperature away from combustible materials. Keep storage containers tightly closed.

8. EXPOSURE CONTROLS

Exposure Limits

None established for polystyrene. Normal handling involves minimal exposure only. The National Occupation Health and Safety Commission (NOHSC) has established the following exposure standard for “dusts not otherwise classified”;

Inspirable dust: 8 h. TWA: 10 mg/m³

Other information on limit values

Keep exposure as low as possible below exposure limits.

Engineering controls

Provide enough ventilation to control exposure levels below airborne exposure limits. Use local vacuum ventilation at sources of air contamination such as open process equipment.

Respiratory protection

Not required under normal conditions.

Limb protection

If dust occurs wear rubber boots and gloves. Wearing gloves is recommended when processing molten material.

Eye protection

Safety goggles with side shields are recommended. Goggles should be worn in areas where there are high concentrations of dust in the air.

Skin and body protection

During processing personnel should be protected from the possibility of contact with molten polystyrene by protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Pellet, transparent, colourless, and odourless.	
Boiling point:	Not applicable	
Specific gravity:	1040 -1070 kg/m ³ @ 25 °C	
Bulk density:	650 kg/m ³	
Density:	1050 kg/m ³	
Softening temperature:	88 – 104 °C	Method (ASTM D 1525)
Flash ignition temperature:	260 – 270 °C	Method (ASTM 1929 B)
Auto ignition temperature:	480 – 490 °C	Method (ASTM 1929 B)
Percent volatiles:	Less than 0.1	

10. STABILITY AND REACTIVITY

Stability:	Stable
Solubility in water:	Insoluble
Soluble in organic solvents:	Soluble in aromatic hydrocarbons, acetone, methyl ethyl ketone, not soluble in alcohol.

11. TOXICOLOGICAL INFORMATION

STYROVIT® polystyrene is not classified as toxic and does not contain Lead, Mercury, Cadmium and other heavy elements.

12. ECOLOGICAL INFORMATION

The polystyrene does not degrade in soil, but will degrade slowly in sunlight. There is no risk for bioaccumulation or toxicity.

13. DISPOSAL CONSIDERATIONS

Mix waste with combustible substances and burn in an incinerator equipped with an afterburner and scrubber.

14. TRANSPORT INFORMATION

Hazard Class: Not regulated

15. REGULATORY INFORMATION

EEC number: Polymer exempt
EC classification: Not classified as dangerous
TSCA: All components of this product are listed on the Toxic Substances Control Act (TSCA) Inventory.

16. OTHER INFORMATION

This Safety Data Sheet is made in accordance with Commission directive 91/155/EEC.

Revision 4 dated on 02 Feb 2007