

Date Updated: 2023-01-20

Version: 1.8 Page 1 of 5

Identification of the substance and of the company

1.1 Product identifiers

Product name Polystyrene standard

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Laboratory chemicals, Manufacture of substances

PSS-PSVAL - EasyValid Validation Kit organic, 6 x 5 Vials, 1.5 ml

PSS-PSKITR10HT - ReadyCal-Kit Polystyrene for HT GPC, pre-weighted calibration kit, nominal

Mp 260 - 12000000 g/mol, 4 x 5 Vials, 10ml

PSS-PSKITR1HT - ReadyCal-Kit Polystyrene for HT GPC, pre-weighted calibration kit, nominal

Mp 400 - 2500000 g/mol, 3 x 10 Vials, 1.5ml

PSS-PSKITR1 - ReadyCal-Kit Polystyrene, nominal Mp 470 - 2500000 g/mol, 3 x 10 Vials, 1.5ml PSS-PSKITR1H - ReadyCal-Kit Polystyrene high, pre-weighted calibration kit, nominal Mp 1600 -

7500000 g/mol, 3 x 10 Vials, 1.5ml

PSS-PSKITR1L - ReadyCal-Kit Polystyrene low, pre-weighted calibration kit, nominal Mp 260 -

66000 g/mol, 3 x 10 Vials, 1.5ml

PSS-PSKITR4 - ReadyCal-Kit Polystyrene, pre-weighted calibration kit, nominal Mp 470 -

2500000 g/mol, 3 x 10 Vials, 4ml

PSS-PSKITR4H - ReadyCal-Kit Polystyrene high, pre-weighted calibration kit, nominal Mp 1600 -

7500000 g/mol, 3 x 10 Vials, 4ml

PSS-PSKIT4L - ReadyCal-Kit Polystyrene low, pre-weighted calibration kit, nominal Mp 260 -

66,000 g/mol, 3 x 10 Vials, 4ml

1.3 Details of the supplier of the safety data sheet

PSS Polymer Standards Service GmbH Company

In der Dalheimer Wiese 5

D - 55120 Mainz

Technical phone +49 6131 - 96239 - 0 Fax +49 6131 - 96239 -11 Email sds@pss-polymer.com

1.4 Emergency telephone number

24-hour emergency contact number: +1 872 5888271 (PSS)

Hazards identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

This substance is not classified as dangerous according to Directive 67/548/EEC.

2.2 Label elements

The product does not need to be labelled in accordance with EC directives or respective national laws.

2.3 Other hazards

none

Composition/information on ingredients

3.1 Substances

PS Synonyms:

Formula: $[CH_2CH(C_6H_5)]_n$ CAS-No.: 9003-53-6 EC No.: 2028515

First aid measures

4.1 Description of first aid measures

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.



Product name: Poly(styrene)

Date Updated: 2023-01-20

Version: 1.8 Page 2 of 5

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

4.3 Indication of any immediate medical attention and special treatment needed

no data available

Fire fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides.

5.3 Advice for fire fighters

Wear self-contained breathing apparatus for fire fighting if necessary.

5.4 Further information

no data available

Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapors, mist or gas.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

Handling and storage

7.1 Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)

no data available

Exposure controls / personal protection

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

General industrial hygiene practice.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves must satisfy the specifications of EU Directive 89/686/EEC and



Product name: Poly(styrene)

Date Updated: 2023-01-20

Version: 1.8 Page 3 of 5

the standard EN 374 derived from it.

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

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

Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form: liquid, viscous to solid (depending on the **Appearance**

molar mass)

Odour no data available Odour Threshold no data available рН no data available Melting point/freezing point no data available Initial boiling point and boiling range no data available Flash Point no data available **Evaporation** rate no data available no data available Flammability Upper/lower flammability or explosive limits no data available Vapour pressure no data available Vapour density no data available Relative density no data available

Water solubility insoluble

Partition coefficient: n- Octanol/Water no data available no data available Auto ignition temperature Decomposition temperature no data available Viscosity no data available Explosive properties no data available Oxidizing properties no data available

9.2 Other safety information

no data available

10. Stability and reactivity

10.1 Reactivity

no data available

10.2 Chemical stability

no data available

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

no data available

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Other decomposition products - no data available



Product name: Poly(styrene)

Date Updated: 2023-01-20

Version: 1.8 Page 4 of 5

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

Carcinogenicity - rat - Implant

Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Tumorigenic: Tumors at site or

application.

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.

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Benzene,

ethenyl-, homopolymer)

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Potential health effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion May be harmful if swallowed.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eves May cause eye irritation.

Additional Information

RTECS: Not available

12. Ecological information

12.1 Toxicity

no data available

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

no data available



Product name: Poly(styrene)

Date Updated: 2023-01-20

Version: 1.8 Page 5 of 5

13. Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14. Transport information

14.1 UN number

IMDG: -IATA: -ADR/RID: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: -IMDG: -IATA: -

14.4 Packaging group

ADR/RID: -IMDG: -IATA: -

14.5 Environmental hazards

IMDG Marine pollutant: no ADR/RID: no IATA: no

14.6 Special precautions for user

Further information

no data available

15. Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

no data available

15.2 Chemical Safety Assessment

no data available

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.