

**Kit Name:** MALDI Validation Kit mixed, validation kit, ps; mm; pdm; peg; pss, nominal Mp 4,300 - 6,500

Da, 5 x 0.5 g

Kit PN: PSS-MIXKITM

This product is a kit, composed of the following individual chemical components:

## **Kit Components**

PSS Component Part Number	Component Name	Volume or mass/ container and unit	No. of component containers/ kit
PSS-mps5k	Poly(styrene) nominal Mw: 5000 g/mol, 500 mg	0.5 g	1
PSS-mmm5k	Poly(methyl methacrylate) nominal Mw: 5000 g/mol, 500 mg	0.5 g	1
PSS-mpss6k	Poly(styrene sulfonate) sodium salt nominal Mw: 6000 g/mol, 500 mg	0.5 g	1
PSS-mpdm4.5k	Poly(dimethyl siloxane) nominal Mw: 4500 g/mol, 500 mg	0.5 g	1
PSS-mpeg6k	Poly(ethylene glycol) nominal Mw: 6000 g/mol, 500 mg	0.5 g	1

Applicable SDS/s for each component follow this cover sheet.



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#### 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

Laboratory chemicals, Manufacture of substances Identified uses

## 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 +49 6131 - 96239 -11 Fax Fmail sds@pss-polymer.com

#### 1.4 Emergency telephone number

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

#### 2. 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.

#### 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.



Product name: Poly(styrene)

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### 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 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).



Product name: Poly(styrene)

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## Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

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

molar mass)

Odour no data available Odour Threshold no data available Hq 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 Flammability no data available 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 Auto ignition temperature no data available 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

## 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



Product name: Poly(styrene)

Date Updated: 2023-01-20

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## 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 eve 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

#### 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

ADR/RID: -IMDG: -IATA: -

#### 14.2 UN proper shipping name

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



Product name: Poly(styrene)

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14.3 Transport hazard class(es)

ADR/RID: -IMDG: -IATA: -

14.4 Packaging group

ADR/RID: -IMDG: -IATA: -

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: 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 quarantee 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.



Date Updated: 2023-01-20

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#### Identification of the substance and of the company

#### 1.1 Product identifiers

Product name Polymethylmethacrylate standard

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

Laboratory chemicals, Manufacture of substances Identified uses

## 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)

#### 2. 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

Caution - substance not yet tested completely.

## 2.3 Other hazards

none

## Composition / information on ingredients

### 3.1 Substances

Synonyms: PMMA, Poly(methacrylic acid methyl ester)

Formula: [CH<sub>2</sub>C(CH<sub>3</sub>)(CO<sub>2</sub>CH<sub>3</sub>)]<sub>n</sub>

CAS-No: 9011-14-7

#### 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.

#### 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

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## 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.



Product name: Poly(methyl methacrylate)

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#### 5.2 Special hazards arising from the substance or mixture

Carbon oxides

## 5.3 Advice for fire fighters

Wear self-contained breathing apparatus for firefighting 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 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).



Product name: Poly(methyl methacrylate)

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## Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

**Appearance** Form: solid Odour no data available Odour Threshold no data available Ηg 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 Flammability no data available 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 no data available Partition coefficient: n- Octanol/Water no data available Auto ignition temperature no data available 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, strong acids

#### 10.6 Hazardous decomposition products

Other decomposition products - no data available

#### 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



Product name: Poly(methyl methacrylate)

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### Carcinogenicity

Carcinogenicity - rat - Implant Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Lungs, Thorax, or Respiration: Tumors. 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.

#### 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.

### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been

thoroughly investigated. **Additional Information** RTECS: TR0400000

## 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

## 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

ADR/RID: -IMDG: -IATA: -

#### 14.2 UN proper shipping name

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



Product name: Poly(methyl methacrylate)

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14.3 Transport hazard class(es)

ADR/RID: -IATA: -IMDG: -

14.4 Packaging group

ADR/RID: -IMDG: -IATA: -

14.5 Environmental hazards

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

14.6 Special precautions for user

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.



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## Identification of the substance and of the company

#### 1.1 Product identifiers

Product name Polystyrene sulfonate sodium salt standard

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

Laboratory chemicals, Manufacture of substances Identified uses

## 1.3 Details of the supplier of the safety data sheet

Company PSS Polymer Standards Service GmbH

In der Dalheimer Wiese 5

D - 55120 Mainz

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

#### 1.4 Emergency telephone number

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

#### 2. Hazards identification

#### 2.1 Classification of the substance or mixture

## Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Acute toxicity, Inhalation (Category 4)

#### Classification according to EU Directives 67/548/EEC or 1999/45/EC

Harmful by inhalation.

#### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]

**Pictogram** 



Signal word Warning

Hazard statement(s)

H332 Harmful if inhaled.

Precautionary statement(s) none Supplemental Hazard Statements none Caution - substance not yet tested completely.

#### 2.3 Other hazards

none

## Composition/information on ingredients

#### 3.1 Substances

Synonyms: **PSS** 

Formula:  $[CH_2CH(C_6H_4SO_3)Na]_n$ 

CAS-No.: 9080-79-9

#### First aid measures

#### 4.1 Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled



Product name: Poly(styrene sulfonate) sodium salt

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

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### 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. Consult a physician.

#### 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. Sulphur oxides. Sodium oxides

## 5.3 Advice for fire fighters

Wear self-contained breathing apparatus for firefighting if necessary.

#### 5.4 Further information

no data available

#### Accidental release measures

## 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

#### 6.2 Environmental precautions

Do not let product enter drains.

## 6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. 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

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. 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

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

#### Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested



Product name: Poly(styrene sulfonate) sodium salt

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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 the standard EN 374 derived from it.

#### **Body Protection**

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. 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

Appearance Form: solid Odour no data available Odour Threshold no data available Ηq 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 Flammability no data available 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 no data available Partition coefficient: n- Octanol/Water no data available Auto ignition temperature no data available 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



Product name: Poly(styrene sulfonate) sodium salt

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#### 10.5 Incompatible materials

Strong oxidizing agents

## 10.6 Hazardous decomposition products

Other decomposition products - no data available

#### 11. Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

LD50 Oral - rat - > 8.000 mg/kg

LC50 Inhalation - rat - 4 h - 2.600 mg/m3

Remarks: Lungs, Thorax, or Respiration: Respiratory obstruction.

#### 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

No component of this product present at levels greater than or equal to 0.1% is IARC:

identified as probable, possible or confirmed human carcinogen by IARC.

#### 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

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

Ingestion May be harmful if swallowed.

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

**Eyes** May cause eye irritation.

#### Additional Information

RTECS: DB6836000

#### 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



Product name: Poly(styrene sulfonate) sodium salt

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#### 12.6 Other adverse effects

no data available

### 13. Disposal considerations

#### 13.1 Waste treatment methods

#### Product

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

#### Contaminated packaging

Dispose of as unused product.

#### 14. Transport information

#### 14.1 UN number

ADR/RID: -IMDG: -IATA -

#### 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

ADR/RID: no IMDG Marine pollutant: 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.

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Date Updated: 2023-01-20

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#### Identification of the substance and of the company

#### 1.1 Product identifiers

Product name Polydimethylsiloxane standard

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

Laboratory chemicals, Manufacture of substances Identified uses

## 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 +49 6131 - 96239 -11 Fax Fmail sds@pss-polymer.com

#### 1.4 Emergency telephone number

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

#### 2. 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

Caution - substance not yet tested completely.

## 2.3 Other hazards

none

## Composition/information on ingredients

#### 3.1 Substances

Synonyms: **PDMS** Formula: [C<sub>2</sub>H<sub>6</sub>OSi]<sub>n</sub> CAS-No.: 63148-62-9

#### First aid measures

## 4.1 Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

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

## In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

## 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. Consult a physician.

#### 4.2 Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## 4.3 Indication of any immediate medical attention and special treatment needed



Product name: Poly(dimethyl siloxane)

Date Updated: 2023-01-20

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## 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

Nature of decomposition products not known.

#### 5.3 Advice for fire fighters

Wear self-contained breathing apparatus for firefighting if necessary.

#### 5.4 Further information

no data available

#### Accidental release measures

## 6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

#### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

#### 6.3 Methods and materials for containment and cleaning up

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

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.

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

## 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

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### 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 the standard EN 374 derived from it.

## **Body Protection**

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup



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to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. 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

Appearance Form: liquid to viscous Odour no data available Odour Threshold no data available Hq 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 Flammability no data available Upper/lower flammability or explosive limits no data available Vapour pressure no data available no data available Vapour density Relative density no data available Water solubility no data available Partition coefficient: n- Octanol/Water no data available Auto ignition temperature no data available 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

#### 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



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## Germ cell mutagenicity

no data available

## Carcinogenicity

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.

#### 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.

**Eyes** May cause eye irritation.

#### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been

thoroughly investigated. **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

Toxic to aquatic life.

#### 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

ADR/RID: - IMDG: - IATA: -

#### 14.2 UN proper shipping name

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



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14.3 Transport hazard class(es)

ADR/RID: -IATA: -IMDG: -

14.4 Packaging group

ADR/RID: -IMDG: -IATA: -

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: 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 quarantee 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.



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## Identification of the substance and of the company

#### 1.1 Product identifiers

Product name Polyethylene glycol standard

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

Laboratory chemicals, Manufacture of substances Identified uses

## 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 +49 6131 - 96239 -11 Fax Fmail sds@pss-polymer.com

#### 1.4 Emergency telephone number

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

#### 2. 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

**PEG** Synonyms:

Formula:  $[HO(C_2H_4O)]_nH$ CAS-No.: 25322-68-3

#### 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.

### 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

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### 4.3 Indication of any immediate medical attention and special treatment needed



Poly(ethylene glycol) Product name:

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## 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.

Nature of decomposition products not known.

#### 5.3 Advice for fire fighters

Wear self-contained breathing apparatus for firefighting 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

no data available

#### 7.2 Conditions for safe storage, including any incompatibilities

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

Store under argon or nitrogen.

#### 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 the standard EN 374 derived from it.

#### **Body Protection**

Impervious clothing, 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 are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components



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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

**Appearance** Form: viscous to solid Odour no data available Odour Threshold no data available no data available Ηd 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 Flammability no data available 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 no data available Partition coefficient: n- Octanol/Water no data available Auto ignition temperature no data available 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

## 11. Toxicological information

## 11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - rat - > 5.000 mg/kg

Skin corrosion/irritation

## Serious eye damage/eye irritation

Eyes - rabbit - No eye irritation - Draize Test

#### Respiratory or skin sensitisation

Did not cause sensitization on laboratory animals.

guinea pig - OECD Test Guideline 406 - Did not cause sensitization on laboratory animals.



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#### Germ cell mutagenicity

Animal testing did not show any mutagenic effects. Not mutagenic in Ames Test.

#### Carcinogenicity

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.

#### 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 eve irritation.

## Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been

thoroughly investigated. **Additional Information** RTECS: Not available

#### 12. Ecological information

#### 12.1 Toxicity

Toxicity to fish static test - Leuciscus idus (Golden orfe) - > 500 mg/l - 96 h

Method: DIN 38412

#### 12.2 Persistence and degradability

Biodegradability Result: - Biodegradable

#### 12.3 Bioaccumulative potential

Does not accumulate in organisms.

#### 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

#### 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

ADR/RID: -IMDG: -IATA: -



Product name: Poly(ethylene glycol)

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#### 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

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

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