

1. 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

Identified uses Laboratory chemicals, Manufacture of substances

PSS-MM1.2K - Polymethylmethacrylate standard, nominal Mw 1,200 g/mol, 1 g
PSS-MM100K - Polymethylmethacrylate standard, nominal Mw 100,000 g/mol, 1 g
PSS-MM10K - Polymethylmethacrylate standard, nominal Mw 10,000 g/mol, 1 g
PSS-MM14K - Polymethylmethacrylate standard, nominal Mw 14,000 g/mol, 1 g
PSS-MM170K - Polymethylmethacrylate standard, nominal Mw 170,000 g/mol, 1 g
PSS-MM17K - Polymethylmethacrylate standard, nominal Mw 17,000 g/mol, 1 g
PSS-MM1K - Polymethylmethacrylate standard, nominal Mw 1,000 g/mol, 1 g
PSS-MM1M - Polymethylmethacrylate standard, nominal Mw 1,000,000 g/mol, 1 g
PSS-MM2.1K - Polymethylmethacrylate standard, nominal Mw 2,100 g/mol, 1 g
PSS-MM2.5K - Polymethylmethacrylate standard, nominal Mw 2,500 g/mol, 1 g
PSS-MM210K - Polymethylmethacrylate standard, nominal Mw 210,000 g/mol, 1 g
PSS-MM21K - Polymethylmethacrylate standard, nominal Mw 21,000 g/mol, 1 g
PSS-MM270 - Polymethylmethacrylate (cyclic P3) standard, nominal Mw 270 g/mol, 1 g
PSS-MM2M - Polymethylmethacrylate standard, nominal Mw 2,000,000 g/mol, 1 g
PSS-MM3.5K - Polymethylmethacrylate standard, nominal Mw 3,500 g/mol, 1 g
PSS-MM340K - Polymethylmethacrylate standard, nominal Mw 340,000 g/mol, 1 g
PSS-MM3M - Polymethylmethacrylate standard, nominal Mw 3,000,000 g/mol, 1 g
PSS-MM4.7K - Polymethylmethacrylate standard, nominal Mw 4,700 g/mol, 1 g
PSS-MM470K - Polymethylmethacrylate standard, nominal Mw 470,000 g/mol, 1 g
PSS-MM47K - Polymethylmethacrylate standard, nominal Mw 47,000 g/mol, 1 g
PSS-MM4K - Polymethylmethacrylate standard, nominal Mw 4,000 g/mol, 1 g
PSS-MM55K - Polymethylmethacrylate standard, nominal Mw 55,000 g/mol, 1 g
PSS-MM615K - Polymethylmethacrylate standard, nominal Mw 615,000 g/mol, 1 g
PSS-MM70K - Polymethylmethacrylate standard, nominal Mw 70,000 g/mol, 1 g
PSS-MM800 - Polymethylmethacrylate standard, nominal Mw 800 g/mol, 1 g
PSS-MM850K - Polymethylmethacrylate standard, nominal Mw 850,000 g/mol, 1 g
PSS-MM85K - Polymethylmethacrylate standard, nominal Mw 85,000 g/mol, 1 g
PSS-MMB100K - Polymethylmethacrylate broad standard, nominal Mw 100,000 g/mol, 1 g
PSS-MMB2.2M - Polymethylmethacrylate broad standard, nominal Mw 2,200,000 g/mol, 1 g
PSS-MMB20K - Polymethylmethacrylate broad standard, nominal Mw 20,000 g/mol, 1 g
PSS-MMB250K - Polymethylmethacrylate broad standard, nominal Mw 250,000 g/mol, 1 g
PSS-MMB60K - Polymethylmethacrylate broad standard, nominal Mw 60,000 g/mol, 1 g

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
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

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3. Composition / information on ingredients

3.1 Substances

Synonyms: PMMA, Poly(methacrylic acid methyl ester)
Formula: $[\text{CH}_2\text{C}(\text{CH}_3)(\text{CO}_2\text{CH}_3)]_n$
CAS-No: 9011-14-7

4. 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

5. 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 firefighting if necessary.

5.4 Further information

no data available

6. 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.

7. 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

8. Exposure controls / personal protection

8.1 Control parameters

Components with workplace control parameters

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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).

9. 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
pH	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

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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

no data available

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.

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: TR0400000

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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

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

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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