Conforms to Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals

SAFETY DATA SHEET

Agilent Technologies

Kit PMMA low, 8 x 0.5 g, Part Number PSS-MMKITL

Section 1. Identification

Product identifier : Kit PMMA low, 8 x 0.5 g, Part Number PSS-MMKITL

Part no. (chemical kit) : PSS-MMKITL

Part no. : Poly(methyl methacrylate) nominal Mw: 102 g/mol — PSS-mm102

Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol — *PSS-mm600

PSS-mm1k
PSS-mm2.1k
PSS-mm4.7k
PSS-mm10k
PSS-mm23k
PSS-mm55k

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

Identified uses : Reagents and Standards for Analytical Chemistry Laboratory Use

PSS-mm102	PMMA, nominal Mw 102 g/mol, 0.5 g
PSS-mm600	PMMA, nominal Mw 600 g/mol, 0.5 g
PSS-mm1k	PMMA, nominal Mw 1,000 g/mol, 0.5 g
PSS-mm2.1k	PMMA, nominal Mw 2,100 g/mol, 0.5 g
PSS-mm4.7k	PMMA, nominal Mw 4,700 g/mol, 0.5 g
PSS-mm10k	PMMA, nominal Mw 10,000 g/mol, 0.5 g
PSS-mm23k	PMMA, nominal Mw 23,000 g/mol, 0.5 g
PSS-mm55k	PMMA, nominal Mw 55,000 g/mol, 0.5 g

Supplier/Manufacturer : Agilent Technologies Australia Pty Ltd
679 Springvale Road
Mulgrave
Victoria 3170, Australia
1800 802 402

Emergency telephone number (with hours of operation) : CHEMTREC®: +(61)-290372994

Note * :

***PSS-mm600**	**PMMA, nominal Mw 600 g/mol, 0.5 g**
PSS-mm1k	**PMMA, nominal Mw 1,000 g/mol, 0.5 g**
PSS-mm2.1k	**PMMA, nominal Mw 2,100 g/mol, 0.5 g**
PSS-mm4.7k	**PMMA, nominal Mw 4,700 g/mol, 0.5 g**
PSS-mm10k	**PMMA, nominal Mw 10,000 g/mol, 0.5 g**
PSS-mm23k	**PMMA, nominal Mw 23,000 g/mol, 0.5 g**
PSS-mm55k	**PMMA, nominal Mw 55,000 g/mol, 0.5 g**

Section 2. Hazard(s) identification

Classification of the substance or mixture

Poly(methyl methacrylate) nominal Mw: 102 g/mol

H225 FLAMMABLE LIQUIDS - Category 2

GHS label elements

Section 2. Hazard(s) identification

Hazard pictograms : Poly(methyl methacrylate) nominal Mw: 102 g/mol

Signal word : Poly(methyl methacrylate) nominal Mw: 102 g/mol: DANGER

Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol: No signal word.

Hazard statements : Poly(methyl methacrylate) nominal Mw: 102 g/mol: H225 - Highly flammable liquid and vapour.

Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol: No known significant effects or critical hazards.

Precautionary statements

Prevention : Poly(methyl methacrylate) nominal Mw: 102 g/mol: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol: Not applicable.

Response : Poly(methyl methacrylate) nominal Mw: 102 g/mol: Not applicable.

Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol: Not applicable.

Storage : Poly(methyl methacrylate) nominal Mw: 102 g/mol: Not applicable.

Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol: Not applicable.

Disposal : Poly(methyl methacrylate) nominal Mw: 102 g/mol: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol: Not applicable.

Supplemental label elements

Additional warning phrases : Poly(methyl methacrylate) nominal Mw: 102 g/mol: Not applicable.

Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol: Not applicable.

Other hazards which do not result in classification : Poly(methyl methacrylate) nominal Mw: 102 g/mol: None known.

Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol: May form combustible dust concentrations in air.

Section 3. Composition and ingredient information

Substance/mixture : Poly(methyl methacrylate) nominal Mw: 102 g/mol: Substance

Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol: Substance

CAS number/other identifiers

Section 3. Composition and ingredient information

Ingredient name	% (w/w)	CAS number
Poly(methyl methacrylate) nominal Mw: 102 g/mol		
methyl isobutyrate	100	547-63-7
Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol		
2-Propenoic acid, 2-methyl-, methyl ester, homopolymer	100	9011-14-7

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

The total concentration of ingredients in this product, reported or not in this section, is 100%.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact

: Poly(methyl methacrylate) nominal Mw: 102 g/mol — Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol — Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Inhalation

: Poly(methyl methacrylate) nominal Mw: 102 g/mol — Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol — Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Skin contact

: Poly(methyl methacrylate) nominal Mw: 102 g/mol — Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol — Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion

: Poly(methyl methacrylate) nominal Mw: 102 g/mol — Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel.

Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol — Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact

: Poly(methyl methacrylate) nominal Mw: 102 g/mol — No known significant effects or critical hazards.

Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol — Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.

Section 4. First aid measures

Inhalation

: Poly(methyl methacrylate) nominal Mw: 102 g/mol — No known significant effects or critical hazards.

Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol — Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.

Skin contact

: Poly(methyl methacrylate) nominal Mw: 102 g/mol — No known significant effects or critical hazards.

Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol — No known significant effects or critical hazards.

Ingestion

: Poly(methyl methacrylate) nominal Mw: 102 g/mol — No known significant effects or critical hazards.

Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol — No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact

: Poly(methyl methacrylate) nominal Mw: 102 g/mol — No specific data.

Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol — Adverse symptoms may include the following:

irritation
redness

Inhalation

: Poly(methyl methacrylate) nominal Mw: 102 g/mol — No specific data.

Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol — Adverse symptoms may include the following:

respiratory tract irritation
coughing

Skin contact

: Poly(methyl methacrylate) nominal Mw: 102 g/mol — No specific data.

Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol — No specific data.

Ingestion

: Poly(methyl methacrylate) nominal Mw: 102 g/mol — No specific data.

Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol — No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

: Poly(methyl methacrylate) nominal Mw: 102 g/mol — Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol — Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments

: Poly(methyl methacrylate) nominal Mw: 102 g/mol — No specific treatment.

Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol — No specific treatment.

Protection of first-aiders

: Poly(methyl methacrylate) nominal Mw: 102 g/mol — No action shall be taken involving any personal risk or without suitable training.

Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol — No action shall be taken involving any personal risk or without suitable training.

Section 4. First aid measures

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media

: Poly(methyl methacrylate) nominal Mw: 102 g/mol — Use dry chemical, CO_2, alcohol-resistant foam or water spray (fog).

Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol — Use dry chemical, CO_2, alcohol-resistant foam or water spray (fog).

Unsuitable extinguishing media

: Poly(methyl methacrylate) nominal Mw: 102 g/mol — Do not use water jet.

Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol — Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.

Specific hazards arising from the chemical

: Poly(methyl methacrylate) nominal Mw: 102 g/mol — Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol — May form explosible dust-air mixture if dispersed.

Hazardous thermal decomposition products

: Poly(methyl methacrylate) nominal Mw: 102 g/mol — Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol — Decomposition products may include the following materials:

carbon dioxide
carbon monoxide

Special protective actions for fire-fighters

: Poly(methyl methacrylate) nominal Mw: 102 g/mol — Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol — Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

: Poly(methyl methacrylate) nominal Mw: 102 g/mol — Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol — Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 5. Firefighting measures

Hazchem code	:	Poly(methyl methacrylate) nominal Mw: 102 g/mol	3YE
		Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol	Not available.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	Poly(methyl methacrylate) nominal Mw: 102 g/mol	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Put on appropriate personal protective equipment.
		Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Put on appropriate personal protective equipment.
For emergency responders	:	Poly(methyl methacrylate) nominal Mw: 102 g/mol	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
		Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Poly(methyl methacrylate) nominal Mw: 102 g/mol	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
		Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and material for containment and cleaning up

Methods for cleaning up	:	Poly(methyl methacrylate) nominal Mw: 102 g/mol	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
		Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol	Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

Precautions for safe handling

Protective measures :

Poly(methyl methacrylate) nominal Mw: 102 g/mol

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol

Put on appropriate personal protective equipment (see Section 8). Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material.

Advice on general occupational hygiene :

Poly(methyl methacrylate) nominal Mw: 102 g/mol

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities :

Poly(methyl methacrylate) nominal Mw: 102 g/mol

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool

Section 7. Handling and storage

and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol 2-Propenoic acid, 2-methyl-, methyl ester, homopolymer	**ACGIH TLV (United States).** Particulates Not Otherwise Specified (PNOS): 10 mg/m³ Form: Inhalable Particulates Not Otherwise Specified (PNOS): 3 mg/m³ Form: Respirable

Biological exposure indices

No exposure indices known.

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Section 8. Exposure controls and personal protection

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state	:	Poly(methyl methacrylate) nominal Mw: 102 g/mol	Liquid. [Clear.]
		Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol	Solid. [Powder.]
Colour	:	Poly(methyl methacrylate) nominal Mw: 102 g/mol	Colourless.
		Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol	Not available.
Odour	:	Poly(methyl methacrylate) nominal Mw: 102 g/mol	Not available.
		Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol	Not available.
Odour threshold	:	Poly(methyl methacrylate) nominal Mw: 102 g/mol	Not available.
		Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol	Not available.
pH	:	Poly(methyl methacrylate) nominal Mw: 102 g/mol	Not available.
		Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol	Not available.
Melting point/freezing point	:	Poly(methyl methacrylate) nominal Mw: 102 g/mol	Not available.
		Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol	Not available.
Boiling point, initial boiling point, and boiling range	:	Poly(methyl methacrylate) nominal Mw: 102 g/mol	146.5°C (295.7°F)
		Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol	Not available.
Flash point	:	Poly(methyl methacrylate) nominal Mw: 102 g/mol	Closed cup: 4°C (39.2°F)
		Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol	Closed cup: >250°C (>482°F)

Section 9. Physical and chemical properties and safety characteristics

Evaporation rate :
- Poly(methyl methacrylate) nominal Mw: 102 g/mol — Not available.
- Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol — Not available.

Flammability :
- Poly(methyl methacrylate) nominal Mw: 102 g/mol — Not applicable.
- Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol — Not available.

Lower and upper explosion limit/flammability limit :
- Poly(methyl methacrylate) nominal Mw: 102 g/mol — Not available.
- Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol — Not applicable.

Vapour pressure :
- Poly(methyl methacrylate) nominal Mw: 102 g/mol — Not available.

Relative vapour density :
- Poly(methyl methacrylate) nominal Mw: 102 g/mol — Not available.
- Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol — Not applicable.

Relative density :
- Poly(methyl methacrylate) nominal Mw: 102 g/mol — Not available.
- Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol — Not available.

Solubility(ies) :

Media	Result
Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol	
water	Insoluble

Partition coefficient: n-octanol/water :
- Poly(methyl methacrylate) nominal Mw: 102 g/mol — Not available.
- Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol — Not available.

Auto-ignition temperature :
- Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol — Not applicable.

Decomposition temperature :
- Poly(methyl methacrylate) nominal Mw: 102 g/mol — Not available.
- Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol — Not available.

Viscosity :
- Poly(methyl methacrylate) nominal Mw: 102 g/mol — Not available.
- Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol — Not applicable.

Particle characteristics

Median particle size :
- Poly(methyl methacrylate) nominal Mw: 102 g/mol — Not applicable.
- Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol — Not available.

Section 10. Stability and reactivity

Reactivity	:	Poly(methyl methacrylate) nominal Mw: 102 g/mol	No specific test data related to reactivity available for this product or its ingredients.
		Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	Poly(methyl methacrylate) nominal Mw: 102 g/mol	The product is stable.
		Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol	The product is stable.
Possibility of hazardous reactions	:	Poly(methyl methacrylate) nominal Mw: 102 g/mol	Under normal conditions of storage and use, hazardous reactions will not occur.
		Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	Poly(methyl methacrylate) nominal Mw: 102 g/mol	Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapour to accumulate in low or confined areas.
		Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol	Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Prevent dust accumulation.
Incompatible materials	:	Poly(methyl methacrylate) nominal Mw: 102 g/mol	Reactive or incompatible with the following materials: oxidising materials
		Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol	Reactive or incompatible with the following materials: oxidising materials
Hazardous decomposition products	:	Poly(methyl methacrylate) nominal Mw: 102 g/mol	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Not available.

Sensitisation

Not available.

Mutagenicity

Conclusion/Summary : Not available.

Section 11. Toxicological information

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure	:	Poly(methyl methacrylate) nominal Mw: 102 g/mol	Not available.
		Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol	Not available.

Potential acute health effects

Eye contact	:	Poly(methyl methacrylate) nominal Mw: 102 g/mol	No known significant effects or critical hazards.
		Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
Inhalation	:	Poly(methyl methacrylate) nominal Mw: 102 g/mol	No known significant effects or critical hazards.
		Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
Skin contact	:	Poly(methyl methacrylate) nominal Mw: 102 g/mol	No known significant effects or critical hazards.
		Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol	No known significant effects or critical hazards.
Ingestion	:	Poly(methyl methacrylate) nominal Mw: 102 g/mol	No known significant effects or critical hazards.
		Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	:	Poly(methyl methacrylate) nominal Mw: 102 g/mol	No specific data.
		Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol	Adverse symptoms may include the following: irritation redness
Inhalation	:	Poly(methyl methacrylate) nominal Mw: 102 g/mol	No specific data.
		Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol	Adverse symptoms may include the following: respiratory tract irritation coughing

Section 11. Toxicological information

Skin contact	:	Poly(methyl methacrylate) nominal Mw: 102 g/mol	No specific data.
		Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol	No specific data.
Ingestion	:	Poly(methyl methacrylate) nominal Mw: 102 g/mol	No specific data.
		Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol	No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General	:	Poly(methyl methacrylate) nominal Mw: 102 g/mol	No known significant effects or critical hazards.
		Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
Carcinogenicity	:	Poly(methyl methacrylate) nominal Mw: 102 g/mol	No known significant effects or critical hazards.
		Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol	No known significant effects or critical hazards.
Mutagenicity	:	Poly(methyl methacrylate) nominal Mw: 102 g/mol	No known significant effects or critical hazards.
		Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol	No known significant effects or critical hazards.
Reproductive toxicity	:	Poly(methyl methacrylate) nominal Mw: 102 g/mol	No known significant effects or critical hazards.
		Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol	No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

N/A

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

Section 12. Ecological information

Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol			
2-Propenoic acid, 2-methyl-, methyl ester, homopolymer	-	<500	Low

Mobility in soil

Soil/water partition coefficient (K_{OC}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

ADG / IMDG / IATA : Not regulated as Dangerous Goods according to the ADG Code .

Additional information

Remarks : De minimis quantities

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons

Not regulated.

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Section 15. Regulatory information

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : All components are listed or exempted.

New Zealand : All components are listed or exempted.

United States : All components are active or exempted.

Section 16. Any other relevant information

History

Date of issue/Date of revision : 06/02/2024

Date of previous issue : 07/07/2023

Version : 2

Key to abbreviations : ADG = Australian Dangerous Goods
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
N/A = Not available
SUSMP = Standard Uniform Schedule of Medicine and Poisons
UN = United Nations

Procedure used to derive the classification

Classification	Justification
Poly(methyl methacrylate) nominal Mw: 102 g/mol FLAMMABLE LIQUIDS - Category 2	On basis of test data

Indicates information that has changed from previously issued version.

Notice to reader

Disclaimer: The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

Note * : ***PSS-mm600 PMMA, nominal Mw 600 g/mol, 0.5 g**
PSS-mm1k PMMA, nominal Mw 1,000 g/mol, 0.5 g
PSS-mm2.1k PMMA, nominal Mw 2,100 g/mol, 0.5 g
PSS-mm4.7k PMMA, nominal Mw 4,700 g/mol, 0.5 g
PSS-mm10k PMMA, nominal Mw 10,000 g/mol, 0.5 g
PSS-mm23k PMMA, nominal Mw 23,000 g/mol, 0.5 g
PSS-mm55k PMMA, nominal Mw 55,000 g/mol, 0.5 g