SAFETY DATA SHEET



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/ PSS-mm102

mo

Poly(methyl methacrylate) nominal Mw: *PSS-mm600

600-55000 g/mol

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 PMMA, nominal Mw 23,000 g/mol, 0.5 g PSS-mm23k PSS-mm55k PMMA, nominal Mw 55,000 g/mol, 0.5 g

Supplier/Manufacturer : Agilent Technologies, Inc.

5301 Stevens Creek Blvd Santa Clara, CA 95051, USA

800-227-9770

Emergency telephone number (with hours of

operation)

: CHEMTREC®: 1-800-424-9300

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-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
PMMA, nominal Mw 10,000 g/mol, 0.5 g
PMMA, nominal Mw 23,000 g/mol, 0.5 g
PMMA, nominal Mw 23,000 g/mol, 0.5 g
PMMA, nominal Mw 55,000 g/mol, 0.5 g

Section 2. Hazard identification

Classification of the substance or mixture

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

H225 FLAMMABLE LIQUIDS - Category 2

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

mol

COMBUSTIBLE DUSTS - Category 1

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Section 2. Hazard identification

GHS label elements

Hazard pictograms

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



Signal word

: Poly(methyl methacrylate) nominal Mw: 102 g/mol Poly(methyl methacrylate) nominal Mw: 600-55000 g/

Danger

Warning

Hazard statements

: Poly(methyl methacrylate) nominal Mw: 102 g/mol Poly(methyl methacrylate) nominal Mw: 600-55000 g/ mol

H225 - Highly flammable liquid and vapor.

May form combustible dust concentrations in air.

Precautionary statements

Prevention

: Poly(methyl methacrylate) nominal Mw: 102 g/mol Poly(methyl methacrylate) nominal Mw: 600-55000 g/ mol

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Not applicable.

Response

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

mol

Not applicable.

Storage

: Poly(methyl methacrylate) nominal Mw: 102 g/mol Poly(methyl methacrylate) nominal Mw: 600-55000 g/ mol

Not applicable.

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/

Not applicable.

Supplemental label

elements

: Poly(methyl methacrylate) nominal Mw: 102 g/mol Poly(methyl methacrylate) nominal Mw: 600-55000 g/ None known.

Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Prevent dust accumulation.

mol

mol

result in classification

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

None known.

nominal Mw: 600-55000 g/

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Section 3. Composition/information on ingredients

Substance/mixture

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

nominal Mw: 600-55000 g/

Substance

Substance

mol

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

Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

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.

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 Poly(methyl methacrylate) nominal Mw: 600-55000 g/ mol	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Remove victim to fresh air and keep at rest in a position comfortable for breathing.		
Skin contact	: Poly(methyl methacrylate) nominal Mw: 102 g/mol Poly(methyl methacrylate)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Flush contaminated skin with plenty of water.		
	nominal Mw: 600-55000 g/ mol	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.		

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Section 4. First-aid measures

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Poly(methyl methacrylate)

nominal Mw: 102 g/mol Poly(methyl methacrylate) nominal Mw: 600-55000 g/

mol

No known significant effects or critical hazards.

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

mol

No known significant effects or critical hazards.

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

mol

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Ingestion

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

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

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact

: Poly(methyl methacrylate) nominal Mw: 102 g/mol Poly(methyl methacrylate) nominal Mw: 600-55000 g/

mol

No specific data.

Adverse symptoms may include the following:

irritation redness

: Poly(methyl methacrylate)

nominal Mw: 102 g/mol Poly(methyl methacrylate) nominal Mw: 600-55000 g/

mol

No specific data.

Adverse symptoms may include the following:

Skin contact

Inhalation

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

nominal Mw: 600-55000 g/

respiratory tract irritation

coughing

Poly(methyl methacrylate)

Ingestion

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

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

mol

No specific data.

No specific data.

No specific data.

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/ Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been

ingested or inhaled.

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Section 4. First-aid measures

Specific treatments

: Poly(methyl methacrylate) nominal Mw: 102 g/mol Poly(methyl methacrylate) nominal Mw: 600-55000 g/ No specific treatment.

No specific treatment.

Protection of first-aiders

: Poly(methyl methacrylate) nominal Mw: 102 g/mol Poly(methyl methacrylate) nominal Mw: 600-55000 g/ mol

No action shall be taken involving any personal risk or without suitable training.

No action shall be taken involving any personal risk

or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

: Poly(methyl methacrylate) nominal Mw: 102 g/mol Poly(methyl methacrylate) nominal Mw: 600-55000 g/

Use dry chemical, CO2, alcohol-resistant foam or water spray (fog).

Use dry chemical, CO2, alcohol-resistant foam or water spray (fog).

Unsuitable extinguishing media

: Poly(methyl methacrylate) nominal Mw: 102 g/mol Poly(methyl methacrylate) nominal Mw: 600-55000 g/ mol

Do not use water jet.

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 vapor. 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 vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. May form explosible dust-air mixture if dispersed.

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

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

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Section 5. Fire-fighting measures

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.

to keep fire-exposed containers cool.

area if this can be done without risk. Use water spray

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

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

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

> areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Put on appropriate personal protective equipment.

No action shall be taken involving any personal risk

or without suitable training. Evacuate surrounding

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 spilled 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 specialized 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". If specialized 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/

Environmental precautions

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

Avoid dispersal of spilled 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 spilled 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 materials 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 watersoluble. 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)

Move containers from spill area. Use spark-proof

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Section 6. Accidental release measures

nominal Mw: 600-55000 g/ mol tools and explosion-proof equipment. Vacuum or sweep up material and place in a designated, labeled 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

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

Advice on general occupational hygiene

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

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

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor 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 explosionproof 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. Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. 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. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. 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 grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

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. 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.

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Section 7. Handling and storage

including any incompatibilities

Conditions for safe storage, : Poly(methyl methacrylate) nominal Mw: 102 g/mol

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

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 oxidizing 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. 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 oxidizing 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/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, vapor 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

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Section 8. Exposure controls/personal protection

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.

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) Liquid. [Clear.]

nominal Mw: 102 g/mol
Poly(methyl methacrylate) Solid. [Powder.]

nominal Mw: 600-55000 g/

mol

Color : Poly(methyl methacrylate) Colorless.

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

mol

Odor : Poly(methyl methacrylate) Not available. nominal Mw: 102 g/mol

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

mol

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Section 9. Physical and chemical properties and safety characteristics

Odor threshold	: Poly(methyl methacrylate) nominal Mw: 102 g/mol	Not available.
	Poly(methyl methacrylate) nominal Mw: 600-55000 g/ mol	Not available.
рН	: 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	: Foly(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	: Foly(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)
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	: Foly(methyl methacrylate) nominal Mw: 102 g/mol	Not available.
	Poly(methyl methacrylate) nominal Mw: 600-55000 g/ mol	Not applicable.
Vapor pressure	: Foly(methyl methacrylate) nominal Mw: 102 g/mol	Not available.
Relative vapor 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.

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Section 9. Physical and chemical properties and safety characteristics

Solubility(ies)	:	Media		Result
		Poly(methyl methacrylate) no Mw: 600-55000 g/mol water		Insoluble
Partition coefficient: n- octanol/water	:	nominal Mw: 102 g/mol	Not availabl Not availabl	
Auto-ignition temperature	:	Poly(methyl methacrylate) nominal Mw: 600-55000 g/ mol	Not applical	ble.
Decomposition temperature	:	nominal Mw: 102 g/mol	Not availabl Not availabl	
Viscosity	:	nominal Mw: 102 g/mol	Not availabl Not applical	
Particle characteristics				
Median particle size	:	nominal Mw: 102 g/mol	Not applical Not availabl	

Section 10. Stability and reactivity

Reactivity	: Poly(methyl methacrylate) nominal Mw: 102 g/mol Poly(methyl methacrylate)	No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for
	nominal Mw: 600-55000 g/ mol	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 Poly(methyl methacrylate) nominal Mw: 600-55000 g/ mol	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.

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Section 10. Stability and reactivity

Conditions to avoid

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

Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor 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 grounding and bonding containers and equipment before transferring material. Prevent dust accumulation.

Incompatible materials

: Poly(methyl methacrylate)

Reactive or incompatible with the following materials:

nominal Mw: 102 g/mol

oxidizing materials Reactive or incompatible with the following materials:

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

mol

oxidizing 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/

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.

Sensitization

Not available.

Mutagenicity

Conclusion/Summary

: Not available.

Carcinogenicity

Conclusion/Summary

: Not available.

Classification

Product/ingredient name	IARC	NTP	ACGIH
Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol	2		
2-Propenoic acid, 2-methyl-, methyl ester, homopolymer	3	-	-

Reproductive toxicity

Conclusion/Summary

: Not available.

Teratogenicity

Conclusion/Summary Not available. Specific target organ toxicity (single exposure)

Not available.

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Section 11. Toxicological information

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure

: Poly(methyl methacrylate) nominal Mw: 102 g/mol Poly(methyl methacrylate) nominal Mw: 600-55000 g/ mol

Not available.

Not available.

Potential acute health effects

Eye contact

: Poly(methyl methacrylate) nominal Mw: 102 g/mol Poly(methyl methacrylate) nominal Mw: 600-55000 g/ mol

No known significant effects or critical hazards.

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

No known significant effects or critical hazards.

Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.

mol

Skin contact Poly(methyl methacrylate)

nominal Mw: 102 g/mol Poly(methyl methacrylate) nominal Mw: 600-55000 g/ No known significant effects or critical hazards.

mol

No known significant effects or critical hazards.

Ingestion

: Poly(methyl methacrylate) nominal Mw: 102 g/mol Poly(methyl methacrylate) nominal Mw: 600-55000 g/

No known significant effects or critical hazards.

No known significant effects or critical hazards.

mol

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact

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

Adverse symptoms may include the following:

mol

mol

irritation redness

Inhalation

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

Adverse symptoms may include the following:

Skin contact

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

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

respiratory tract irritation

No specific data.

mol

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Section 11. Toxicological information

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

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

mol

No specific data.

No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate

effects

Not available.

Potential delayed effects : Not available.

Long term exposure

Carcinogenicity

Potential immediate

effects

: Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General : Poly(methyl methacrylate)

nominal Mw: 102 g/mol Poly(methyl methacrylate) nominal Mw: 600-55000 g/

mol

Poly(methyl methacrylate) nominal Mw: 102 g/mol Poly(methyl methacrylate) nominal Mw: 600-55000 g/

mol

Mutagenicity : Poly(methyl methacrylate)

> nominal Mw: 102 g/mol Poly(methyl methacrylate) nominal Mw: 600-55000 g/

No known significant effects or critical hazards.

Repeated or prolonged inhalation of dust may lead to

chronic respiratory irritation.

No known significant effects or critical hazards.

Reproductive toxicity : Poly(methyl methacrylate)

nominal Mw: 102 g/mol Poly(methyl methacrylate) nominal Mw: 600-55000 g/

mol

No known significant effects or critical hazards.

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.

Bioaccumulative potential

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Section 12. Ecological information

Product/ingredient name	LogPow	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 (Koc)

: 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 minimized 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. Vapor 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

TDG / IMDG / IATA : Not regulated.

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 : Not available.

to IMO instruments

Section 15. Regulatory information

Canadian lists

Canadian NPRI : None of the components are listed.

CEPA Toxic substances : None of the components are listed.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

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Section 15. Regulatory information

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

Canada : At least one component is not listed in DSL but all such components are listed in

NDSL

United States : All components are active or exempted.

Section 16. Other information

History

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Key to abbreviations : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

HPR = Hazardous Products Regulations 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 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
Poly(methyl methacrylate) nominal Mw: 600-55000 g/mol COMBUSTIBLE DUSTS - Category 1	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
PSS-mm2.1k
PSS-mm4.7k
PSS-mm10k
PSS-mm23k
PSS-mm23k
PSS-mm55k
PSS-mm55k
PMMA, nominal Mw 1,000 g/mol, 0.5 g
PMMA, nominal Mw 4,700 g/mol, 0.5 g
PMMA, nominal Mw 10,000 g/mol, 0.5 g
PMMA, nominal Mw 23,000 g/mol, 0.5 g
PMMA, nominal Mw 55,000 g/mol, 0.5 g

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