

## Safety Data Sheet

### POLYGLASS PMMA RESIN

Safety Data Sheet dated: 11/08/2021 - version 4

Date of first edition: 11/04/2020



## 1. Identification

### Product identifier

Mixture identification:

Trade name: POLYGLASS PMMA RESIN

Trade code: 903PA9990

### Recommended use and restrictions on use

Recommended use: Coating

Restrictions on use: N.A.

### Supplier's details

Company: Polyglass U.S.A. Inc.

1111 West Newport Center Drive - 33442 - Deerfield Beach - FL - USA

Phone: 866-222-9782

Responsible: RDProductSafety@mapei.com

### Emergency phone number

Emergency Number (USA/Canada) CHEMTREC 1(800) 424-9300 / 1(703) 527-3887

Emergency Transport CANUTEC (Canada) 1-613-996-6666

## 2. Hazard identification



### Classification of the product

Flammable liquid and vapour.

Causes skin irritation.

May cause an allergic skin reaction.

May cause respiratory irritation.

Harmful to aquatic life

### Label elements

#### Pictograms and Signal Words



Warning

#### Hazard statements:

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

H402 Harmful to aquatic life

#### Precautionary statements:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

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

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P261 Avoid breathing mist/vapours/spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a doctor if you feel unwell.
P321	Specific treatment (see supplementary instructions on this label)
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378	In case of fire, use a dry powder fire extinguisher to extinguish.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with applicable regulations.

#### Other hazards

None

#### Ingredient(s) with unknown acute toxicity

None

This product contains titanium dioxide which IARC has classified as a Group 2B carcinogen (possibly carcinogenic to humans). Evidence is based on sufficient animal testing as a result of long-term inhalation at high concentrations of respirable amounts of titanium dioxide. Because this product is in liquid or paste form, it does not pose a dust hazard; therefore, this classification is not relevant. (Note: sanding of the hardened product may create a dust hazard)

### 3. Composition/information on ingredients

#### Substances

N.A.

#### Mixtures

Hazardous components within the meaning of WHMIS 2015 and related classification:

#### List of components

Concentration (% w/w)	Name	Ident. Numb.	Classification	Registration Number
10-20 %	METHYL METHACRYLATE	CAS:80-62-6	Flam. Liq. 2, H225; STOT SE 3, H335; Skin Irrit. 2, H315; Skin Sens. 1, H317	
10-20 %	2-ETHYLHEXYL ACRYLATE	CAS:103-11-7 EC:203-080-7 Index:607-107-00-7	Skin Irrit. 2, H315; Skin Sens. 1B, H317; STOT SE 3, H335; Aquatic Chronic 3, H412; Flam. Liq. 4, H227; Aquatic Acute 2, H401	
1-2.5 %	TITANIUM DIOXIDE	CAS:13463-67-7 EC:236-675-5 Index:022-006-00-2	Carc. 2, H351	

The actual concentration of the components listed above is withheld as a trade secret.

### 4. First-aid measures

#### Description of necessary first-aid measures

In case of skin contact:

- Immediately take off all contaminated clothing.
- Remove contaminated clothing immediately and dispose of safely.
- After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

- After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
- Protect uninjured eye.

In case of Ingestion:

- Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

- In case of inhalation, consult a doctor immediately and show him packing or label.

#### Most important symptoms/effects, acute and delayed

Eye irritation  
Eye damages  
Skin Irritation  
Erythema

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

(see paragraph 4.1)

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**5. Fire-fighting measures**

**Suitable and unsuitable extinguishing media**

Suitable extinguishing media:

In case of fire, use a dry powder fire extinguisher to extinguish.  
CO2 or Dry chemical fire extinguisher.

Unsuitable extinguishing media:

None in particular.

**Specific hazards arising from the hazardous product**

Do not inhale explosion and combustion gases.  
Burning produces heavy smoke.  
Hazardous combustion products: N.A.  
Explosive properties: N.A.  
Oxidizing properties: N.A.

**Special protective equipment and precautions for fire-fighters**

Use suitable breathing apparatus.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Move undamaged containers from immediate hazard area if it can be done safely.

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**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment.  
Remove all sources of ignition.  
Wear breathing apparatus if exposed to vapours/dusts/aerosols.  
Provide adequate ventilation.  
Use appropriate respiratory protection.  
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.  
Limit leakages with earth or sand.

**Methods and material for containment and cleaning up**

Suitable material for taking up: absorbing material, organic, sand  
Retain contaminated washing water and dispose it.

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**7. Handling and storage**

**Precautions for safe handling**

Avoid contact with skin and eyes, inhalation of vapours and mists.  
Exercise the greatest care when handling or opening the container.  
Do not use on extensive surface areas in premises where there are occupants.  
Use localized ventilation system.  
Don't use empty container before they have been cleaned.  
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.  
Contaminated clothing should be changed before entering eating areas.  
Do not eat or drink while working.  
See also section 8 for recommended protective equipment.

**Conditions for safe storage, including any incompatibilities**

Storage temperature: N.A.

Always keep in a well ventilated place.  
Store at below 20 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.  
Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.  
Avoid accumulating electrostatic charge.  
Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.  
Safety electric system.

## 8. Exposure controls/personal protection

### Control parameters

#### List of components with OEL value

Component	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour	Note
METHYL METHACRYLATE	OSHA			410	100				
	ACGIH				50		100		A4 - Not Classifiable as a Human Carcinogen; body weight effects; eye and upper respiratory tract irritation; pulmonary edema; Sensitizer;
	EU				50		100	Indicative	
	MAK	GERMANY		210	50				A4 - Not Classifiable as a Human Carcinogen; body weight effects; eye and upper respiratory tract irritation; pulmonary edema; dermal sensitizer
2-ETHYLHEXYL ACRYLATE	ACGIH				50		100		
	MAK	AUSTRIA		210	50	420	100		
	MAK	SWITZERLAND		210	50				
	MAK	GERMANY		38	5				
	MAK	AUSTRIA		82	10	82	10		
	MAK	SWITZERLAND		38	5				
TITANIUM DIOXIDE	MAK	AUSTRIA	C			82	10		
	OSHA			15					
	ACGIH			10					A4 - Not Classifiable as a Human Carcinogen; lower respiratory tract irritation;
	MAK	GERMANY		0.3					
	ACGIH			10					A4 - Not Classifiable as a Human Carcinogen; lower respiratory tract irritation
	MAK	AUSTRIA		5		10			
	MAK	SWITZERLAND		3					

#### Appropriate engineering controls

N.A.

#### Individual protection measures, such as personal protective equipment (PPE)

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Suitable materials for safety gloves; 29 CFR 1910.138 - ANSI/ISEA 105:

Polychloroprene - CR: thickness  $\geq 0,5\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

Nitrile rubber - NBR: thickness  $\geq 0,35\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

Butyl rubber - IIR: thickness  $\geq 0,5\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

Fluorinated rubber - FKM: thickness  $\geq 0,4\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

Use impervious gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Respiratory protection must be used where exposure levels exceed workplace exposure limits. Refer to 29 CFR 1910.134 - CSA Z94.4 for information on selection and use of appropriate respiratory protection equipment.

Use respiratory protection where ventilation is insufficient or exposure is prolonged.

## 9. Physical and chemical properties

## Information on basic physical and chemical properties

Physical state: Liquid  
Appearance and colour: viscous liquid  
Odour: Like: Ester  
Odour threshold: No data available  
pH: No data available  
Melting point / freezing point: No data available  
Initial boiling point and boiling range: 101 °C (214 °F)  
Flash point: 35 °C (95 °F)  
Evaporation rate: No data available  
Upper/lower flammability or explosive limits: No data available  
Vapour density: No data available  
Vapour pressure: No data available  
Relative density: 1.21 g/cm<sup>3</sup>  
Solubility in water: immiscible  
Solubility in oil: 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  
Solid/gas flammability: No data available

## Other information

Substance Groups relevant properties No data available  
Miscibility: No data available  
Fat Solubility: No data available  
Conductivity: No data available

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## 10. Stability and reactivity

### Reactivity

It may generate dangerous reactions (See subsections below)

### Chemical stability

It may generate dangerous reactions (See subsections below)

### Possibility of hazardous reactions

None.

### Conditions to avoid

Avoid accumulating electrostatic charge.

### Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

### Hazardous decomposition products

None.

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## 11. Toxicological information

### Information on toxicological effects

#### Toxicological information on main components of the mixture:

METHYL METHACRYLATE	a) acute toxicity	LC50 Inhalation Rat = 4632 ppm 4h LD50 Skin Rabbit 5000 mg/kg LC50 Inhalation Rat = 7093 ppm 4h LD50 Oral Rat 8420 mg/kg
2-ETHYLHEXYL ACRYLATE	a) acute toxicity	LD50 Skin Rabbit = 7522 mg/kg LD50 Oral Rat = 4435 mg/kg
TITANIUM DIOXIDE	a) acute toxicity	LD50 Oral Rat > 10000 mg/kg

#### Substance(s) listed on the IARC Monographs:

METHYL METHACRYLATE	Group 3
2-ETHYLHEXYL ACRYLATE	Group 2B

**Substance(s) listed as OSHA Carcinogen(s):**

2-ETHYLHEXYL ACRYLATE

TITANIUM DIOXIDE

**Substance(s) listed as NIOSH Carcinogen(s):**

TITANIUM DIOXIDE

**Substance(s) listed on the NTP report on Carcinogens:**

None

**12. Ecological information****Ecotoxicity**

Adopt good working practices, so that the product is not released into the environment.

**List of components with eco-toxicological properties**

Component	Ident. Numb.	Ecotox Infos
METHYL METHACRYLATE	CAS: 80-62-6	a) Aquatic acute toxicity : LC50 Fish Pimephales promelas 243 mg/L 96h EPA a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus 170 mg/L 96h EPA a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss > 79 mg/L 96h IUCLID  a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 69 mg/L 48h IUCLID  a) Aquatic acute toxicity : EC50 Algae Pseudokirchneriella subcapitata = 170 mg/L 96h IUCLID  a) Aquatic acute toxicity : LC50 Fish Pimephales promelas 125.5 mg/L 96h EPA  a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus 153.9 mg/L 96h EPA  a) Aquatic acute toxicity : LC50 Fish Poecilia reticulata 326.4 mg/L 96h EPA
2-ETHYLHEXYL ACRYLATE	CAS: 103-11-7 - EINECS: 203-080-7 - INDEX: 607-107-00-7	a) Aquatic acute toxicity : EC50 Algae Desmodesmus subspicatus = 44 mg/L 72h IUCLID  a) Aquatic acute toxicity : EC50 Algae Desmodesmus subspicatus = 47 mg/L 96h IUCLID  a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss = 1.81 mg/L 96h ECHA  a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 17.45 mg/L 48h IUCLID

**Persistence and degradability**

N.A.

**Bioaccumulative potential**

N.A.

**Mobility in soil**

N.A.

**Other adverse effects**

N.A.

**13. Disposal considerations****Safe handling and methods for disposal**

The generation of waste should be avoided or minimized wherever possible. Recover if possible.

**Methods of disposal:**

Disposal of this product, solutions, packaging 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 nonrecyclable products via a licensed waste disposal contractor.

Do not dispose of waste into sewers.

Disposal considerations:

Do not allow to enter drains or watercourses.

Dispose of product according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

Dispose of containers contaminated by the product in accordance with local or national legal provisions. For further information, contact your local waste authority.

Special precautions:

This material and its container must be disposed of in a safe way. Care should be taken when handling untreated empty containers.

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Empty containers or liners may retain some product residues. Do not re-use empty containers.

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## 14. Transport information

### UN number

TDG-UN number: UN1263

ADR-UN number: 1263

DOT-UN Number: UN1263

IATA-Un number: 1263

IMDG-Un number: 1263

### UN proper shipping name

TDG-Shipping Name: PAINT

ADR-Shipping Name: PAINT

DOT-Proper Shipping Name: PAINT

IATA-Technical name: PAINT

IMDG-Technical name: PAINT

### Transport hazard class(es)

TDG-Class: 3

ADR-Class: 3

DOT-Hazard Class: 3

IATA-Class: 3

IMDG-Class: 3

### Packing group

TDG-Packing Group: III

ADR-Packing Group: III

DOT Packing Group: III

IATA-Packing group: III

IMDG-Packing group: III

### Environmental hazards

Marine pollutant: No

Environmental Pollutant: N.A.

### Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)

N.A.

### Special precautions in connection with transport or conveyance

#### TDG:

TDG Special provisions: 59, 142

#### Department of Transportation (DOT):

DOT-Special Provision(s): 367, B1, B52, B131, IB3, T2, TP1, TP29

DOT-Label(s): 3

DOT-Symbol: N/A

DOT-Cargo Aircraft: N/A

DOT-Passenger Aircraft: N/A

DOT-Bulk: N/A

DOT-Non-Bulk: N/A

#### Road and Rail (ADR-RID) :

ADR-Label: 3

ADR-Hazard identification number: 30

ADR-Transport category (Tunnel restriction code): 3 (D/E)

#### Air (IATA) :

IATA-Passenger Aircraft: 355

IATA-Cargo Aircraft: 366

IATA-Label: 3

IATA-Subsidiary hazards: -

IATA-Erg: 3L

IATA-Special Provisioning: A3 A72 A192

Sea ( IMDG ) :

IMDG-Stowage Code: Category A

IMDG-Stowage Note: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisioning: 163 223 367 955

IMDG-Page: N/A

IMDG-Label: N/A

IMDG-EMS: F-E, S-E

IMDG-MFAG: N/A

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## 15. Regulatory information

### Canada - Federal regulations

#### DSL - Domestic Substances List

##### DSL Inventory:

All the substances are listed in the DSL.

#### NDSL - Non Domestic Substances List

##### NDSL Inventory:

No substances listed

#### NPRI - National Pollutant Release Inventory

##### Substances listed in NPRI:

No substances listed

### USA - Federal regulations

#### TSCA - Toxic Substances Control Act

##### TSCA inventory:

All the components are listed on the TSCA inventory

##### TSCA listed substances:

METHYL METHACRYLATE is listed in TSCA Section 8b

2-ETHYLHEXYL ACRYLATE is listed in TSCA Section 8b

TITANIUM DIOXIDE is listed in TSCA Section 8b

#### SARA - Superfund Amendments and Reauthorization Act

##### Section 302 - Extremely Hazardous Substances:

No substances listed

##### Section 304 - Hazardous substances:

METHYL METHACRYLATE

##### Section 313 - Toxic chemical list:

METHYL METHACRYLATE

#### CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

##### Substance(s) listed under CERCLA:

METHYL METHACRYLATE Reportable quantity: 1000 pounds

#### CAA - Clean Air Act

##### CAA listed substances:

METHYL METHACRYLATE is listed in CAA Section 112(b) - HAP Section 112(b) - HON

2-ETHYLHEXYL ACRYLATE is listed in CAA Section 112(b) - HON

#### CWA - Clean Water Act

##### CWA listed substances:

METHYL METHACRYLATE is listed in CWA Section 311

### USA - State specific regulations

#### California Proposition 65

##### Substance(s) listed under California Proposition 65:

TITANIUM DIOXIDE Listed as carcinogen

#### Massachusetts Right to know



**Substance(s) listed under Massachusetts Right to know:**

METHYL METHACRYLATE  
2-ETHYLHEXYL ACRYLATE  
TITANIUM DIOXIDE

**Pennsylvania Right to know****Substance(s) listed under Pennsylvania Right to know:**

METHYL METHACRYLATE  
2-ETHYLHEXYL ACRYLATE  
TITANIUM DIOXIDE

**New Jersey Right to know****Substance(s) listed under New Jersey Right to know:**

METHYL METHACRYLATE  
2-ETHYLHEXYL ACRYLATE  
TITANIUM DIOXIDE

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**16. Other information**

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Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

<b>Code</b>	<b>Description</b>
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H227	Combustible liquid
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H412	Harmful to aquatic life with long lasting effects.

**Legend to abbreviations and acronyms used in the safety data sheet:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

CLP: Classification, Labeling, Packaging.

EINECS: European Inventory of Existing Commercial Chemical Substances.

INCI: International Nomenclature of Cosmetic Ingredients.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

GefStoffVO: Ordinance on Hazardous Substances, Germany.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

DNEL: Derived No Effect Level.

PNEC: Predicted No Effect Concentration.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

WGK: German Water Hazard Class.

KSt: Explosion coefficient.

**Paragraphs modified from the previous revision:**

- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 12. ECOLOGICAL INFORMATION