

## Safety Data Sheet

### POLYPROOF PMMA FILLER

Safety Data Sheet dated: 10/20/2020 - version 1

Date of first edition: 10/20/2020

## 1. Identification

### Product identifier

Mixture identification:

Trade name: POLYPROOF PMMA FILLER

### 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

### Emergency phone number

(USA) CHEMTREC 1-800-424-9300

(Canada) CANUTEC 1-613-996-6666

## 2. Hazard identification



### Classification of the product

Skin Irrit. 2	Causes skin irritation.
Skin Sens. 1	May cause an allergic skin reaction.
STOT SE 3	May cause respiratory irritation.
Flam. Liq. 3	Flammable liquid and vapour.

### 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.

#### Precautionary statements:

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing vapours.
P280	Wear protective gloves and eye protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P312	Call a POISON CENTER if you feel unwell.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

#### Other hazards

None

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

None

## 3. Composition/information on ingredients

## Substances

N.A.

## Mixtures

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

### List of components

Quantity	Name	Ident. Numb.	Classification	Registration Number
5-10 %	2-ETHYLHEXYL ACRYLATE	CAS:103-11-7	Skin Irrit. 2, H315; Skin Sens. 1B, H317; STOT SE 3, H335; Aquatic Chronic 3, H412; Flam. Liq. 4, H227; Aquatic Acute 2, H401	
5-10 %	METHYL METHACRYLATE	CAS:80-62-6	Flam. Liq. 2, H225; STOT SE 3, H335; Skin Irrit. 2, H315; Skin Sens. 1, H317	
1-2.5 %	TITANIUM DIOXIDE	CAS:13463-67-7	Carc. 2, H351	

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

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## 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:

- 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.  
 See protective measures under point 7 and 8.

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

Suitable material for taking up: absorbing material, organic, sand  
 Wash with plenty of water.

**7. Handling and storage**

**Precautions for safe handling**

Avoid contact with skin and eyes, inhalation of vapours and mists.  
 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.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

**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
2-ETHYLHEXYL ACRYLATE	MAK	GERMANY		38	5				
	MAK	AUSTRIA		82	10	82	10		
	MAK	SWITZERLAND		38	5				
	MAK	AUSTRIA	C			82	10		
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				
	ACGIH				50		100		A4 - Not Classifiable as a Human Carcinogen;body weight effects;eye and upper respiratory tract irritation;pulmonary edema;dermal sensitizer
TITANIUM DIOXIDE	MAK	AUSTRIA		210	50	420	100		
	MAK	SWITZERLAND		210	50				
	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:

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

Respiratory protection:

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

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## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Physical state: Liquid

Appearance and colour: paste of different colors

Odour: Like: Ester

Odour threshold: N.A.

pH: N.A.

Melting point / freezing point: N.A.

Initial boiling point and boiling range: 101 °C (214 °F)

Flash point: 28 °C (82 °F)

Evaporation rate: N.A.

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A.

Vapour pressure: N.A.

Relative density: 1.34 g/cm<sup>3</sup>

Solubility in water: immiscible

Solubility in oil: N.A.

Partition coefficient (n-octanol/water): N.A.

Auto-ignition temperature: N.A.

Decomposition temperature: N.A.

Viscosity: 4,500.00 mPA-s

Explosive properties: N.A.

Oxidizing properties: N.A.

Solid/gas flammability: N.A.

### Other information

Substance Groups relevant properties N.A.

Miscibility: N.A.

Fat Solubility: N.A.

Conductivity: N.A.

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## 10. Stability and reactivity

### Reactivity

Stable under normal conditions

### Chemical stability

Data not available.

### Possibility of hazardous reactions

None.

### Conditions to avoid

Stable under normal conditions.

### Incompatible materials

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

### Hazardous decomposition products

None.

## 11. Toxicological information

### Information on toxicological effects

#### Toxicological information of the mixture:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

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

2-ETHYLHEXYL ACRYLATE	a) acute toxicity	LD50 Skin Rabbit = 7522 mg/kg LD50 Oral Rat = 4435 mg/kg
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
TITANIUM DIOXIDE	a) acute toxicity	LD50 Oral Rat > 10000 mg/kg

If not differently specified, the information required in the regulation and listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure
- Toxicological kinetics, metabolism and distribution information
- i) STOT-repeated exposure
- j) aspiration hazard

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

2-ETHYLHEXYL ACRYLATE	Group 2B
METHYL METHACRYLATE	Group 3
TITANIUM DIOXIDE	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
2-ETHYLHEXYL ACRYLATE	CAS: 103-11-7	a) Aquatic acute toxicity : EC50 Algae <i>Desmodesmus subspicatus</i> = 44 mg/L 72h IUCLID  a) Aquatic acute toxicity : EC50 Algae <i>Desmodesmus subspicatus</i> = 47 mg/L 96h IUCLID  a) Aquatic acute toxicity : LC50 Fish <i>Oncorhynchus mykiss</i> = 1.81 mg/L 96h ECHA

METHYL METHACRYLATE

CAS: 80-62-6

a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 17.45 mg/L 48h IUCLID

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

### **Persistence and degradability**

N.A.

### **Bioaccumulative potential**

N.A.

### **Mobility in soil**

N.A.

### **Other adverse effects**

N.A.

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## **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:**

2-ETHYLHEXYL ACRYLATE	is listed in TSCA	Section 8b
METHYL METHACRYLATE	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
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**CAA - Clean Air Act**

**CAA listed substances:**

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

**CWA - Clean Water Act**

**CWA listed substances:**

METHYL METHACRYLATE	is listed in CWA	Section 311
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**USA - State specific regulations**

**California Proposition 65**

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

TITANIUM DIOXIDE	Listed as carcinogen
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**Massachusetts Right to know**

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

2-ETHYLHEXYL ACRYLATE  
METHYL METHACRYLATE  
TITANIUM DIOXIDE

**Pennsylvania Right to know**

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

2-ETHYLHEXYL ACRYLATE  
METHYL METHACRYLATE  
TITANIUM DIOXIDE

**New Jersey Right to know**

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

2-ETHYLHEXYL ACRYLATE  
METHYL METHACRYLATE  
TITANIUM DIOXIDE

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**16. Other information**

<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.  
H412 Harmful to aquatic life with long lasting effects.

Safety Data Sheet dated: 10/20/2020 - version 1

Product code: PLY0050

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.

**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.