

## Safety Data Sheet

### POLYGLASS PMMA FLEXIBLE PRIMER

Safety Data Sheet dated: 11/08/2021 - version 2

Date of first edition: 11/04/2020

## 1. IDENTIFICATION

### Product identifier

Mixture identification:

Trade name: POLYGLASS PMMA FLEXIBLE PRIMER

Trade code: 9075303

### Recommended use of the chemical and restrictions on use

Recommended use: Coating

Restrictions on use: N.A.

### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

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 24 hour numbers:

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

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

## 2. HAZARD(S) IDENTIFICATION



### Classification of the chemical

Flam. Liq. 2	Highly flammable liquid and vapour.
Skin Irrit. 2	Causes skin irritation.
Eye Irrit. 2A	Causes serious eye irritation.
Skin Sens. 1B	May cause an allergic skin reaction.
STOT SE 3	May cause respiratory irritation.
Aquatic Acute 3	Harmful to aquatic life
Aquatic Chronic 3	Harmful to aquatic life with long lasting effects.

### Label elements

#### Pictograms and Signal Words



Danger

### Hazard statements:

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H402	Harmful to aquatic life
H412	Harmful to aquatic life with long lasting effects.

### 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/sparks/open flames/hot surfaces. — No smoking.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use only non-sparking tools.

P243	Take precautionary measures against static discharge.
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.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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.
P337+P313	If eye irritation persists: 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.

**Ingredient(s) with unknown acute toxicity:**

None

**Hazards not otherwise classified identified during the classification process:**

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 29 CFR 1910.1200 and related classification:

**List of components**

Concentration (% w/w)	Name	Ident. Numb.	Classification	Registration Number
25-50 %	METHYL METHACRYLATE	CAS:80-62-6	Flam. Liq. 2, H225; STOT SE 3, H335; Skin Irrit. 2, H315; Skin Sens. 1, H317	
10-20 %	(CHLOROMETHYL)OXIRANE, 4,4'-(1-METHYLETHYLIDENE)BISPHENOL COPOLYMER	CAS:25068-38-6 EC:500-033-5 Index:603-074-00-8	Eye Irrit. 2A, H319; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Acute 2, H401; Aquatic Chronic 2, H411	N.A.
5-10 %	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	
5-10 %	TITANIUM DIOXIDE	CAS:13463-67-7 EC:236-675-5 Index:022-006-00-2	Carc. 2, H351	
1-2.5 %	POLY[OXY(METHYL-1,2-ETHANEDIYL)], α,α'-(2,2-DIMETHYL-1,3-PROPANEDIYL)BIS[ω-[(1-OXO-2-PROPEN-1-YL)OXY]-	CAS:84170-74-1	Aquatic Chronic 2, H411; Skin Sens. 1B, H317	

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## 4. FIRST AID MEASURES

### Description of first aid measures

In case of skin contact:

- Immediately take off all contaminated clothing.
- OBTAIN IMMEDIATE MEDICAL ATTENTION.
- Obtain medical attention if skin related symptoms persist.
- 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 any immediate medical attention and special treatment needed

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

### Extinguishing media

Suitable extinguishing media:

### Unsuitable extinguishing media:

- None in particular.

### Specific hazards arising from the chemical

- 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.

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## 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				
	ACGIH				50		100		A4 - Not Classifiable as a Human Carcinogen;body weight effects;eye and upper respiratory tract irritation;pulmonary edema;dermal sensitizer
2-ETHYLHEXYL ACRYLATE	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

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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state: Liquid

Appearance and colour: viscous liquid white

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: 17 °C (63 °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: 1.08 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
(CHLOROMETHYL) OXIRANE, 4,4'-(1- METHYLETHYLIDENE) BISPHENOL COPOLYMER	a) acute toxicity	LD50 Oral Rat 11400 mg/kg  LD50 Oral Rat = 11400 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
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****Toxicity**

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

Eco-Toxicological Information:

**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

POLY[OXY(METHYL-1,2-ETHANEDIYL)],  $\alpha,\alpha'$ -(2,2-DIMETHYL-1,3-PROPANEDIYL)BIS[ $\omega$ -[(1-OXO-2-PROPEN-1-YL)OXY]-

CAS: 84170-74-1

a) Aquatic acute toxicity : LC50 Fish Danio rerio = 2.7 mg/L 96h ECHA

#### **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**

#### **Waste treatment methods**

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**

ADR-UN number: 1263

DOT-UN Number: UN1263

IATA-Un number: 1263

IMDG-Un number: 1263

#### **UN proper shipping name**

ADR-Shipping Name: PAINT

DOT-Proper Shipping Name: PAINT

IATA-Technical name: PAINT

IMDG-Technical name: PAINT

#### **Transport hazard class(es)**

ADR-Class: 3

DOT-Hazard Class: 3

IATA-Class: 3

IMDG-Class: 3

#### **Packing group**

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 MARPOL73/78 and the IBC Code**  
N.A.

**Special precautions**

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**

**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
(CHLOROMETHYL)OXIRANE, 4,4'-(1-METHYLETHYLIDENE)BISPHENOL COPOLYMER	is listed in TSCA	Section 8b
2-ETHYLHEXYL ACRYLATE	is listed in TSCA	Section 8b
TITANIUM DIOXIDE	is listed in TSCA	Section 8b
POLY[OXY(METHYL-1,2-ETHANEDIYL)], $\alpha,\alpha'$ -(2,2-DIMETHYL-1,3-PROPANEDIYL)BIS[ $\omega$ -(1-OXO-2-PROPEN-1-YL)OXY]-	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

**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

**16. OTHER INFORMATION**

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**Additional classification information**

NFPA Health: 1 = Slight  
NFPA Flammability: 3 = Flammable liquid  
NFPA Reactivity: 2 = Moderate  
NFPA Special Risk: N.A.



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.
H227	Combustible liquid
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H411	Toxic to aquatic life with long lasting effects.
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:**

- 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
- 2. HAZARDS IDENTIFICATION
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 6. ACCIDENTAL RELEASE MEASURES
- 7. HANDLING AND STORAGE
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 10. STABILITY AND REACTIVITY
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION
- 16. OTHER INFORMATION