

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 06/25/2018 Version: 4.0

#### **SECTION 1: Identification**

Identification

Product form : Mixture Product name : TheraCem Base

Recommended use and restrictions on use

Use of the substance/mixture : For RX only

#### 1.3. Supplier

#### Manufacturer

Bisco, Inc. 1100 W. Irving Park Rd. Schaumburg, IL 60193

T 1.847.534.6000 - F 1.847.891.5049 sales@bisco.com - www.bisco.com

#### **Emergency telephone number**

: CHEMTREC - 24-Hour Hazmat Emergency Communications Center **Emergency number** 

Domestic: 1-800-424-9300 Outside the U.S.: 1-703-527-3887, collect calls accepted

### SECTION 2: Hazard(s) identification

#### Classification of the substance or mixture

#### **GHS-US** classification

H315 Skin corrosion/irritation Causes skin irritation

Category 2

Serious eye damage/eye H319 Causes serious eye irritation

irritation Category 2

Skin sensitization, Category H317 May cause an allergic skin reaction

Specific target organ

H335

toxicity (single exposure)

Category 3

Full text of H statements : see section 16

### GHS Label elements, including precautionary statements

### **GHS-US** labeling

Hazard pictograms (GHS-US)



Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H315 - Causes skin irritation

> H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation H335 - May cause respiratory irritation

May cause respiratory irritation

Precautionary statements (GHS-US) : P261 - Avoid breathing vapors.

P264 - Wash hands thoroughly after handling P271 - Use only outdoors or in a well-ventilated area.

P272 - Contaminated work clothing must not be allowed out of the workplace

P280 - Wear protective gloves/protective clothing/eye protection/face protection protective

gloves, face protection, eye protection

P302+P352 - If on skin: Wash with plenty of water and soap Wash skin with soap and water 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

P312 - Call a poison center/a doctor if you feel unwell Call a doctor, a POISON CENTER

P321 - Specific treatment (see First aid measures on this label) P332+P313 - If skin irritation 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.

P363 - Wash contaminated clothing before reuse.

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P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up.

P501 - Dispose in a safe manner in accordance with local/national regulations

#### 2.3. Other hazards which do not result in classification

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### **SECTION 3: Composition/Information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	GHS-US classification
Portland Cement	(CAS-No.) 65997-15-1	20 - 50	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335
Ytterbium w/ Barium Glass	(CAS-No.) NA	30 - 50	Eye Irrit. 2, H319
Proprietary	(CAS-No.) Proprietary	1 - 10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
Ytterbium Fluoride	(CAS-No.) 13760-80-0	1 - 5	Skin Irrit. 2, H315 Eye Irrit. 2, H319
BisGMA	(CAS-No.) 1565-94-2	1 - 5	Skin Irrit. 2, H315 Eye Irrit. 2B, H320 Skin Sens. 1, H317
Proprietary	(CAS-No.) Proprietary	<1	Skin Irrit. 2, H315 Eye Irrit. 2B, H320 Skin Sens. 1, H317

Full text of hazard classes and H-statements : see section 16

#### **SECTION 4: First-aid measures**

#### 4.1. Description of first aid measures

First-aid measures general : Call a poison center/doctor/physician if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a poison

center/doctor/physician if you feel unwell.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs:

Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

#### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : May cause respiratory irritation.

Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Eye irritation.

#### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

# **SECTION 5: Fire-fighting measures**

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

#### 5.2. Specific hazards arising from the chemical

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

#### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

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#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures

 $: \ \ Ventilate \ spillage \ area. \ Avoid \ breathing \ dust/fume/gas/mist/vapors/spray. \ Avoid \ contact \ with$ 

skin and eyes.

#### 6.1.2. For emergency responders

Protective equipment

: Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up

: Mechanically recover the product.

Other information

: Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

### **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Precautions for safe handling

: Use only outdoors or in a well-ventilated area. Avoid breathing

dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. Wear personal protective

equipment.

Hygiene measures

: Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands

after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

 $: \ \, \text{Store locked up. Store in a well-ventilated place}. \ \, \text{Keep container tightly closed}. \ \, \text{Keep cool}.$ 

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Portland Cement (65997-15-1)			
ACGIH	ACGIH TWA (mg/m³)	1 mg/m³ (Respirable fraction. The value is for particulate matter containing no asbestos and < 1% crystalline silica)	
Proprietary (Proprietary)			
Not applicable			
Proprietary (Proprietary)			
Not applicable			
Ytterbium Fluoride (13760-80-0)			
Not applicable			
BisGMA (1565-94-2)			
Not applicable			
Ytterbium w/ Barium Glass	Ytterbium w/ Barium Glass (NA)		
Not applicable			

#### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

#### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Protective gloves

#### Eye protection:

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Safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : Paste
Color : Straw
Odor : Acrylic

Odor threshold : No data available рΗ No data available Melting point : No data available Freezing point Not applicable Boiling point No data available Flash point : Not applicable Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : Non flammable. : No data available Vapor pressure Relative vapor density at 20 °C : No data available Relative density : Not applicable Solubility : No data available Log Pow : No data available Auto-ignition temperature : Not applicable Decomposition temperature No data available Viscosity, kinematic : Not applicable Viscosity, dynamic No data available **Explosion limits** : Not applicable : No data available Explosive properties : No data available Oxidizing properties

#### 9.2. Other information

No additional information available

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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### **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Proprietary (Proprietary)	
LD50 oral rat	N/A
LD50 dermal rat	N/A
LD50 dermal rabbit	N/A
LC50 inhalation rat (ppm)	N/A
Ytterbium Fluoride (13760-80-0)	
LD50 oral rat	N/A
LD50 dermal rat	N/A
LD50 dermal rabbit	N/A

Skin corrosion/irritation: Causes skin irritation.Serious eye damage/irritation: Causes serious eye irritation.Respiratory or skin sensitization: May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Proprietary (Proprietary)		
IARC group	4 - Probably not carcinogenic to humans	
Proprietary (Proprietary)		
IARC group	4 - Probably not carcinogenic to humans	
Ytterbium Fluoride (13760-80-0)		
IARC group	4 - Probably not carcinogenic to humans	

Reproductive toxicity : Not classified

Specific target organ toxicity – single exposure : May cause respiratory irritation.

Proprietary (Proprietary)		
LOAEL (oral,rat)	N/A mg/kg body weight	
LOAEL (dermal,rat/rabbit)	N/A mg/kg body weight	
LOAEC (inhalation,rat,gas)	N/A ppmV/4h	
LOAEC (inhalation,rat,vapour)	N/A mg/l/4h	
LOAEC (inhalation,rat,dust/mist/fume)	N/A mg/l/4h	
Ytterbium Fluoride (13760-80-0)		
LOAEL (oral,rat)	N/A mg/kg body weight	
LOAEL (dermal,rat/rabbit)	N/A mg/kg body weight	
LOAEC (inhalation,rat,gas)	N/A ppmV/4h	
LOAEC (inhalation,rat,vapour)	N/A mg/l/4h	
LOAEC (inhalation,rat,dust/mist/fume)	N/A mg/l/4h	

Specific target organ toxicity – repeated : Not classified exposure

Proprietary (Proprietary)		
LOAEL (oral,rat,90 days)	N/A mg/kg bodyweight/day	
LOAEL (dermal,rat/rabbit,90 days)	N/A mg/kg bodyweight/day	
LOAEC (inhalation,rat,gas,90 days)	N/A ppmV/6h/day	
LOAEC (inhalation,rat,vapour,90 days)	N/A mg/l/6h/day	
LOAEC (inhalation,rat,dust/mist/fume,90 days)	N/A mg/l/6h/day	
Ytterbium Fluoride (13760-80-0)		
LOAEL (oral,rat,90 days)	N/A mg/kg bodyweight/day	
LOAEL (dermal,rat/rabbit,90 days)	N/A mg/kg bodyweight/day	

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Ytterbium Fluoride (13760-80-0)	
LOAEC (inhalation,rat,gas,90 days)	N/A ppmV/6h/day
LOAEC (inhalation,rat,vapour,90 days)	N/A mg/l/6h/day
LOAEC (inhalation,rat,dust/mist/fume,90 days)	N/A mg/l/6h/day

Aspiration hazard : Not classified

Symptoms/effects after inhalation : May cause respiratory irritation.

Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Eye irritation.

#### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse

effects in the environment.

LC50 fish 1 > 1000 mg/l (96 h, Pisces)	

Ytterbium Fluoride (13760-80-0)	
EC50 Daphnia 1	190 mg/l

#### 12.2. Persistence and degradability

Portland Cement (65997-15-1)	
Persistence and degradability	Biodegradability: not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

#### 12.3. Bioaccumulative potential

Portland Cement (65997-15-1)	
Bioaccumulative potential	Bioaccumulation: not applicable.

#### 12.4. Mobility in soil

Portland Cement (65997-15-1)	
Ecology - soil	No (test)data on mobility of the substance available.

### 12.5. Other adverse effects

No additional information available

### **SECTION 13: Disposal considerations**

### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

### **SECTION 14: Transport information**

#### **Department of Transportation (DOT)**

In accordance with DOT

Other information : No supplementary information available.

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### **Transportation of Dangerous Goods**

#### Transport by sea

Not applicable

#### Air transport

Not applicable

### **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

No additional information available

#### 15.2. International regulations

#### **CANADA**

No additional information available

#### **EU-Regulations**

No additional information available

#### **National regulations**

No additional information available

#### 15.3. US State regulations

No additional information available

### **SECTION 16: Other information**

#### Full text of H-phrases:

11. 11. 11. 11. 11. 11. 11. 11. 11. 11.	
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H320	Causes eye irritation
H335	May cause respiratory irritation

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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#### **SECTION 1: Identification**

1.1. Identification

Product form : Mixture

Product name : TheraCem Catalyst

1.2. Recommended use and restrictions on use

Use of the substance/mixture : For Rx Only

1.3. Supplier

Manufacturer

Bisco, Inc. 1100 W. Irving Park Rd. Schaumburg, IL 60193

T 847.534.6000 - F 847.891.5049 sales@bisco.com - www.bisco.com

1.4. Emergency telephone number

Emergency number : CHEMTREC - 24-Hour Hazmat Emergency Communications Center

Domestic: 1-800-424-9300 Outside the U.S.: 1-703-527-3887, collect calls accepted

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

#### **GHS-US** classification

Skin corrosion/irritation H315 Causes skin irritation

Category 2

Serious eye damage/eye H319 Causes serious eye irritation

irritation Category 2

Skin sensitization, Category H317 May cause an allergic skin reaction

Hazardous to the aquatic H402

environment - Acute Hazard Category 3

Full text of H statements : see section 16

Harmful to aquatic life

#### 2.2. GHS Label elements, including precautionary statements

#### **GHS-US** labeling

Hazard pictograms (GHS-US)



Hazard statements (GHS-US) : H315 - Causes skin irritation

H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation H402 - Harmful to aquatic life

Precautionary statements (GHS-US)

: P261 - Avoid breathing vapors P264 - Wash hands thoroughly after handling

P272 - Contaminated work clothing must not be allowed out of the workplace

P273 - Avoid release to the environment

P280 - Wear eye protection, face protection, protective gloves

P302+P352 - If on skin: Wash with plenty of Wash skin with soap and water

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P321 - Specific treatment (see First aid measures on this label)
P332+P313 - If skin irritation 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

P363 - Wash contaminated clothing before reuse

P501 - Dispose in a safe manner in accordance with local/national regulations

#### 2.3. Other hazards which do not result in classification

No additional information available

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#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

#### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	GHS-US classification
10-Methacryloyloxydecyl Dihydrogen Phosphate	(CAS-No.) 85590-00-7	10 - 30	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
2-Hydroxyethyl Methacrylate	(CAS-No.) 868-77-9	1 - 5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Tert-butyl Perbenzoate	(CAS-No.) 614-45-9	1 - 5	Self-react. D, H242 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400

Full text of hazard classes and H-statements : see section 16

#### **SECTION 4: First-aid measures**

#### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs:

Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Eye irritation.

#### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

#### **SECTION 5: Fire-fighting measures**

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

### 5.2. Specific hazards arising from the chemical

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

#### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing mist, vapors.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

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#### 6.4. Reference to other sections

For further information refer to section 13.

### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal

protective equipment. Avoid breathing mist, vapors.

Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed

out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands

after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

#### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

#### 10-Methacryloyloxydecyl Dihydrogen Phosphate (85590-00-7)

Not applicable

#### Tert-butyl Perbenzoate (614-45-9)

Not applicable

#### 2-Hydroxyethyl Methacrylate (868-77-9)

Not applicable

#### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

#### 8.3. Individual protection measures/Personal protective equipment

### Hand protection:

Protective gloves

# Eye protection:

Safety glasses

#### Skin and body protection:

Wear suitable protective clothing

### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

### **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Viscous resin paste.

Color : White opaque

Odor : Acrylic

Odor threshold : No data available рΗ No data available Melting point : No data available Freezing point Not applicable Boiling point : No data available Flash point : Not applicable Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : Non flammable

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Vapor pressure : No data available : No data available Relative vapor density at 20 °C Relative density : Not applicable Solubility : No data available Log Pow : No data available Auto-ignition temperature : Not applicable Decomposition temperature : No data available Viscosity, kinematic Not applicable Viscosity, dynamic : No data available **Explosion limits** : Not applicable Explosive properties : No data available Oxidizing properties : No data available

#### 9.2. Other information

No additional information available

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

No additional information available

Reproductive toxicity

Specific target organ toxicity – single exposure

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Acute toxicity	: Not classified	
10-Methacryloyloxydecyl Dihydroger	-Methacryloyloxydecyl Dihydrogen Phosphate (85590-00-7)	
LD50 oral rat	> > mg/kg	
Tert-butyl Perbenzoate (614-45-9)		
LD50 oral rat	> 2000 mg/kg (Rat)	
LD50 dermal rat	> 2000 mg/kg (Rat)	
LC50 inhalation rat (mg/l)	> 20 mg/l/4h (Rat)	
2-Hydroxyethyl Methacrylate (868-77	-9)	
LD50 oral rat	5564 mg/kg body weight (Rat; Experimental value)	
LD50 dermal rabbit	> 5000 mg/kg body weight (Rabbit; Experimental value)	
ATE US (oral)	5564 mg/kg body weight	
Skin corrosion/irritation	: Causes skin irritation.	
Serious eye damage/irritation	: Causes serious eye irritation.	
Respiratory or skin sensitization	: May cause an allergic skin reaction.	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
10-Methacryloyloxydecyl Dihydrogen Phosphate (85590-00-7)		
IARC group	4 - Probably not carcinogenic to humans	

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: Not classified

: Not classified

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Specific target organ toxicity - repeated

exposure

: Not classified

Aspiration hazard : Not classified

Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Eye irritation.

### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - general : Harmful to aquatic life.

10-Methacryloyloxydecyl Dihydrogen Phosphate (85590-00-7)	
EC50 Daphnia 1	> mg/l
NOEC chronic fish	48h 10 mg/l

2-Hydroxyethyl Methacrylate (868-77-9)	oxyethyl Methacrylate (868-77-9)		
LC50 fish 1	227 mg/l (LC50; 96 h)		
EC50 Daphnia 1	171 mg/l (NOEC; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)		
EC50 Daphnia 2	380 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)		
Threshold limit algae 1	836 mg/l (ErC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Pseudokirchneriella subcapitata; Static system; Fresh water; Experimental value)		
Threshold limit algae 2	345 mg/l (EbC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Pseudokirchneriella subcapitata; Static system; Fresh water; Experimental value)		

#### 12.2. Persistence and degradability

Tert-butyl Perbenzoate (614-45-9)	t-butyl Perbenzoate (614-45-9)		
Persistence and degradability Readily biodegradable in water.			
ThOD	2.14 g O₂/g substance		
2-Hydroxyethyl Methacrylate (868-77-9)			
Persistence and degradability Readily biodegradable in water. Biodegradability in soil: no data available. Adsorbs into t soil.			

### 12.3. Bioaccumulative potential

Tert-butyl Perbenzoate (614-45-9)		
Bioaccumulative potential		
2-Hydroxyethyl Methacrylate (868-77-9)		
BCF fish 1	1.3 - 1.5 (BCF)	
Log Pow	og Pow -0.55 - 0.49 (0.42; Experimental value; OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method; 25 °C)	
Bioaccumulative potential Low potential for bioaccumulation (BCF < 500).		

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Effect on the global warming : No known effects from this product.

GWPmix comment : No known effects from this product.

### **SECTION 13: Disposal considerations**

#### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

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## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### **SECTION 14: Transport information**

#### **Department of Transportation (DOT)**

In accordance with DOT

Not applicable

TDG

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

### **SECTION 15: Regulatory information**

15.1. US Federal regulations

### 2-Hydroxyethyl Methacrylate (868-77-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. International regulations

#### **CANADA**

No additional information available

#### **EU-Regulations**

No additional information available

### **National regulations**

No additional information available

### 15.3. US State regulations

No additional information available

### **SECTION 16: Other information**

Revision date:06/06/2018

Full text of H-phrases:

H242	Heating may cause a fire
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H402	Harmful to aquatic life

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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