

# SAFETY DATA SHEET

## BEARING FIT RETAINER

Commission Regulation (EU) No 2015/830 of 28 May 2015.

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

**Product name** BEARING FIT RETAINER  
**Product number** 307

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Anaerobic thread locking resin

#### 1.3. Details of the supplier of the safety data sheet

**Supplier** ORAPI APPLIED LIMITED,  
SPRING ROAD,  
SMETHWICK,  
WEST MIDLANDS, B66 1PT, ENGLAND  
Tel: 0121-525-4000  
Fax: 0121-525-4919  
lee.baughan@orapiapplied.com

**Contact person** Lee Baughan

#### 1.4. Emergency telephone number

**Emergency telephone** 0121 525 4000 (09:00 - 17:00 hrs)

### SECTION 2: Hazards identification

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

##### Classification (EC 1272/2008)

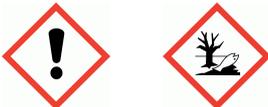
**Physical hazards** Not Classified  
**Health hazards** Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317  
**Environmental hazards** Aquatic Chronic 1 - H410

**Human health** Irritating to skin. Irritating to eyes. The product contains a sensitising substance. May cause sensitisation or allergic reactions in sensitive individuals.

**Environmental** The product contains a substance which is very toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

#### 2.2. Label elements

##### Hazard pictograms



**Signal word** Warning

**Hazard statements** H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H410 Very toxic to aquatic life with long lasting effects.

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<b>Precautionary statements</b>	<p>P261 Avoid breathing vapour/ spray.</p> <p>P273 Avoid release to the environment.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
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**Contains** TRIETHYLENEGLYCOL DIMETHACRYLATE, 2-HYDROXYPROPYL METHACRYLATE

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

<b>TRIETHYLENEGLYCOL DIMETHACRYLATE</b>	<b>10-30%</b>
CAS number: 109-16-0                      REACH registration number: 01-2119969287-21-XXXX	
<b>Classification</b>	
Skin Sens. 1 - H317	
<b>DI-ISOPROPYLNAPHTHALENE</b>	<b>10-30%</b>
CAS number: 38640-62-9                      EC number: 254-052-6                      REACH registration number: 01-2119565150-48-XXXX	
M factor (Chronic) = 1	
<b>Classification</b>	
Asp. Tox. 1 - H304 Aquatic Chronic 1 - H410	
<b>2-HYDROXYPROPYL METHACRYLATE</b>	<b>5-10%</b>
CAS number: 27813-02-1                      REACH registration number: 01-2119490226-37-XXXX	
<b>Classification</b>	
Eye Irrit. 2 - H319 Skin Sens. 1 - H317	

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<b>CUMENE HYDROPEROXIDE</b>	<b>1-3%</b>
CAS number: 80-15-9	EC number: 201-254-7
	REACH registration number: 01-2119475796-19-XXXX
<b>Classification</b> Org. Perox. E - H242 Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 3 - H331 Skin Corr. 1B - H314 Eye Dam. 1 - H318 STOT SE 3 - H335 STOT RE 2 - H373 Aquatic Chronic 2 - H411	
<b>N,N-DIMETHYL-PARA-TOLUIDINE</b>	<b>0.1-1%</b>
CAS number: 99-97-8	EC number: 202-805-4
	REACH registration number: 01-2119937766-23-XXXX
<b>Classification</b> Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 STOT RE 2 - H373 Aquatic Chronic 3 - H412	
<b>Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol, 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-</b>	<b>&lt;0.1%</b>
CAS number: —	EC number: 911-490-9
	REACH registration number: 01-2119979579-10-0002
<b>Classification</b> Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Aquatic Chronic 3 - H412	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>General information</b>	Show this Safety Data Sheet to the medical personnel.
<b>Inhalation</b>	Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Give plenty of water to drink. Keep affected person under observation. Get medical attention if any discomfort continues.

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**Skin contact** Rinse immediately with plenty of water. Remove contaminated clothing. Get medical attention if irritation persists after washing.

**Eye contact** Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

### 4.2. Most important symptoms and effects, both acute and delayed

**Inhalation** Upper respiratory irritation. Irritation of nose, throat and airway.

**Ingestion** May cause discomfort if swallowed. May cause stomach pain or vomiting.

**Skin contact** Prolonged or repeated contact with skin may cause irritation, redness and dermatitis.

**Eye contact** Irritation of eyes and mucous membranes.

### 4.3. Indication of any immediate medical attention and special treatment needed

**Notes for the doctor** No specific recommendations.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media** The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

**Unsuitable extinguishing media** Do not use water, if avoidable.

### 5.2. Special hazards arising from the substance or mixture

**Specific hazards** The product is not flammable.

**Hazardous combustion products** Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Oxides of nitrogen.

### 5.3. Advice for firefighters

**Protective actions during firefighting** Avoid breathing fire gases or vapours. Ventilate closed spaces before entering them.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## SECTION 6: Accidental release measures

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

**Personal precautions** Avoid inhalation of vapours and contact with skin and eyes.

### 6.2. Environmental precautions

**Environmental precautions** Do not discharge into drains or watercourses or onto the ground.

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

**Methods for cleaning up** Provide adequate ventilation. Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely.

### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Avoid contact with skin and eyes. Avoid inhalation of vapours.

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

**Storage precautions** Keep only in the original container. Keep container tightly closed. Unsuitable container materials: Common metals. Mild steel. Aluminium. Copper. Do not store near heat sources or expose to high temperatures.

**Storage class** Chemical storage.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

#### DI-ISOPROPYLNAPHTHALENE (CAS: 38640-62-9)

<b>DNEL</b>	Workers - Inhalation; Long term systemic effects: 30 mg/m <sup>3</sup> Workers - Dermal; Long term systemic effects: 4.3 mg/kg/day General population - Inhalation; Long term systemic effects: 7.4 mg/m <sup>3</sup> General population - Dermal; Long term systemic effects: 2.1 mg/kg/day General population - Oral; Long term systemic effects: 2.1 mg/kg/day
<b>PNEC</b>	- STP; 0.15 mg/l - Sediment (Freshwater); 0.853 mg/kg - Sediment (Marinewater); 0.085 mg/kg - Soil; 0.171 mg/kg

#### TRIETHYLENEGLYCOL DIMETHACRYLATE (CAS: 109-16-0)

<b>DNEL</b>	Workers - Inhalation; Long term systemic effects: 48.5 mg/m <sup>3</sup> Workers - Dermal; Long term systemic effects: 13.9 mg/kg/day General population - Inhalation; Long term systemic effects: 14.5 mg/m <sup>3</sup> General population - Dermal; Long term systemic effects: 8.33 mg/kg/day General population - Oral; Long term systemic effects: 8.33 mg/kg/day
<b>PNEC</b>	- Fresh water; 0.164 mg/l - Fresh water, Intermittent release; 0.164 mg/l - marine water; 0.016 mg/l - STP; 10 mg/l - Sediment (Freshwater); 1.85 mg/kg - Sediment (Marinewater); 0.185 mg/kg - Soil; 0.274 mg/kg

#### 2-HYDROXYPROPYL METHACRYLATE (CAS: 27813-02-1)

<b>DNEL</b>	Workers - Inhalation; Long term systemic effects: 14.7 mg/m <sup>3</sup> Workers - Dermal; Long term systemic effects: 4.2 mg/kg/day General population - Inhalation; Short term systemic effects: 8.8 mg/m <sup>3</sup> General population - Dermal; Long term systemic effects: 2.5 mg/kg/day General population - Oral; Long term systemic effects: 2.5 mg/kg/day
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<b>PNEC</b>	- Fresh water; 0.904 mg/l
	- Fresh water, Intermittent release; 0.972 mg/l
	- marine water; 0.904 mg/l
	- Intermittent release, marine water; 0.972 mg/l
	- STP; 10 mg/l
	- Sediment (Freshwater); 6.28 mg/kg
	- Sediment (Marinewater); 6.28 mg/kg

### CUMENE HYDROPEROXIDE (CAS: 80-15-9)

<b>DNEL</b>	Workers - Inhalation; Long term systemic effects: 6 mg/m <sup>3</sup>
<b>PNEC</b>	- Fresh water; 0.003 mg/l
	- Intermittent release, Fresh water; 0.031 mg/l
	- STP; 0.35 mg/l
	- Sediment (Freshwater); 0.023 mg/kg
	- Sediment (Marinewater); 0.002 mg/kg

### Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol, 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-

<b>DNEL</b>	Workers - Inhalation; Long term systemic effects: 9.8 mg/m <sup>3</sup>
	Workers - Dermal; Long term systemic effects: 1.4 mg/kg/day
	General population - Inhalation; Long term systemic effects: 2.9 mg/kg
	General population - Dermal; Long term systemic effects: 0.83 mg/kg/day
	General population - Oral; Long term systemic effects: 0.83 mg/kg/day
<b>PNEC</b>	- Fresh water; 0.048 mg/l
	- marine water; 0.0048 mg/l
	- Sediment (Freshwater); 1.2 mg/kg
	- Sediment (Marinewater); 0.12 mg/kg

## 8.2. Exposure controls

### Protective equipment



### Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.

### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Wear protective gloves made of the following material: Neoprene. Nitrile rubber. To protect hands from chemicals, gloves should comply with European Standard EN374.

### Other skin and body protection

Wear apron or protective clothing in case of contact.

### Hygiene measures

Wash at the end of each work shift and before eating, smoking and using the toilet.

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**Respiratory protection** If ventilation is inadequate, suitable respiratory protection must be worn.

### SECTION 9: Physical and chemical properties

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

<b>Appearance</b>	Clear liquid. Liquid.
<b>Colour</b>	Yellow.
<b>Odour</b>	Sweetish.
<b>pH</b>	pH (concentrated solution): 4 - 6
<b>Flash point</b>	> 100°C
<b>Vapour pressure</b>	<0.1 mmHg @ 20°C
<b>Relative density</b>	1.07 @ 20°C
<b>Solubility(ies)</b>	Insoluble in water. Soluble in the following materials: Acetone.
<b>Viscosity</b>	~500 cP @ 20°C

#### 9.2. Other information

**Other information** None.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

**Reactivity** There are no known reactivity hazards associated with this product.

#### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures and when used as recommended.

#### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** May polymerise. Avoid heat.

#### 10.4. Conditions to avoid

**Conditions to avoid** Avoid contact with strong oxidising agents.

#### 10.5. Incompatible materials

**Materials to avoid** Strong oxidising agents. Chemically-active metals.

#### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Heating may generate the following products: Oxides of carbon. Oxides of nitrogen.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute toxicity - oral

**ATE oral (mg/kg)** 13,301.76

##### Acute toxicity - dermal

**ATE dermal (mg/kg)** 39,332.54

##### Acute toxicity - inhalation

**ATE inhalation (gases ppm)** 70,000.0

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**ATE inhalation (vapours mg/l)** 612.24

### Skin corrosion/irritation

**Skin corrosion/irritation** Causes skin irritation.

### Serious eye damage/irritation

**Serious eye damage/irritation** Causes serious eye irritation.

### Skin sensitisation

**Skin sensitisation** May cause an allergic skin reaction.

**Inhalation** May cause respiratory system irritation.

**Ingestion** May cause discomfort if swallowed. May cause stomach pain or vomiting. Liquid irritates mucous membranes and may cause abdominal pain if swallowed.

**Skin contact** May cause skin irritation. May cause sensitisation by skin contact. May cause sensitisation or allergic reactions in sensitive individuals.

**Eye contact** Irritating to eyes. Irritation of eyes and mucous membranes. Severe irritation, burning and tearing.

### Toxicological information on ingredients.

#### DI-ISOPROPYLNAPHTHALENE

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 3,900.0

**Species** Rat

#### 2-HYDROXYPROPYL METHACRYLATE

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 7,964.0

**Species** Mouse

#### CUMENE HYDROPEROXIDE

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 382.0

**Species** Rat

**ATE oral (mg/kg)** 382.0

##### Acute toxicity - dermal

**ATE dermal (mg/kg)** 1,100.0

##### Acute toxicity - inhalation

**Acute toxicity inhalation (LC<sub>50</sub> gases ppmV)** 220.0

**ATE inhalation (gases ppm)** 220.0

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### N,N-DIMETHYL-PARA-TOLUIDINE

#### Acute toxicity - oral

ATE oral (mg/kg) 100.0

#### Acute toxicity - dermal

ATE dermal (mg/kg) 300.0

#### Acute toxicity - inhalation

Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l) 1,400.0

### Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol, 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-

#### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 619.0

Species Rat

ATE oral (mg/kg) 619.0

## SECTION 12: Ecological information

**Ecotoxicity** Dangerous for the environment.

### 12.1. Toxicity

**Toxicity** Very toxic to aquatic life with long lasting effects.

### Ecological information on ingredients.

#### DI-ISOPROPYLNAPHTHALENE

#### Chronic aquatic toxicity

M factor (Chronic) 1

#### CUMENE HYDROPEROXIDE

#### Acute aquatic toxicity

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 3.9 mg/l, Oncorhynchus mykiss (Rainbow trout)

#### N,N-DIMETHYL-PARA-TOLUIDINE

#### Acute aquatic toxicity

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 46 - 52 mg/l, Freshwater fish

### 12.2. Persistence and degradability

**Persistence and degradability** The product is biodegradable.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** The product is not bioaccumulating.

### 12.4. Mobility in soil

**Mobility** The product is insoluble in water and will sediment in water systems.

### 12.5. Results of PBT and vPvB assessment

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**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### 12.6. Other adverse effects

**Other adverse effects** None known.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

## SECTION 14: Transport information

### 14.1. UN number

<b>UN No. (ADR/RID)</b>	3082
<b>UN No. (IMDG)</b>	3082
<b>UN No. (ICAO)</b>	3082
<b>UN No. (ADN)</b>	3082

### 14.2. UN proper shipping name

<b>Proper shipping name (ADR/RID)</b>	Environmentally Hazardous Substance, Liquid, n.o.s. (Di-Isopropylnaphthalene)
<b>Proper shipping name (IMDG)</b>	Environmentally Hazardous Substance, Liquid, n.o.s. (Di-Isopropylnaphthalene)
<b>Proper shipping name (ICAO)</b>	Environmentally Hazardous Substance, Liquid, n.o.s. (Di-Isopropylnaphthalene)
<b>Proper shipping name (ADN)</b>	Environmentally Hazardous Substance, Liquid, n.o.s. (Di-Isopropylnaphthalene)

### 14.3. Transport hazard class(es)

<b>ADR/RID class</b>	9
<b>ADR/RID classification code</b>	M6
<b>ADR/RID label</b>	9
<b>IMDG class</b>	9
<b>ICAO class/division</b>	9
<b>ADN class</b>	9

### Transport labels



### 14.4. Packing group

<b>ADR/RID packing group</b>	III
<b>IMDG packing group</b>	III
<b>ICAO packing group</b>	III
<b>ADN packing group</b>	III

### 14.5. Environmental hazards

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Environmentally hazardous substance/marine pollutant



### 14.6. Special precautions for user

EmS	F-A, S-F
ADR transport category	3
Emergency Action Code	•3Z
Hazard Identification Number (ADR/RID)	90
Tunnel restriction code	(E)

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

<b>National regulations</b>	Control of Substances Hazardous to Health Regulations 2002 (as amended). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].
<b>EU legislation</b>	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Commission Regulation (EU) No 2015/830 of 28 May 2015.
<b>Guidance</b>	Workplace Exposure Limits EH40.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

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### Abbreviations and acronyms used in the safety data sheet

ATE: Acute Toxicity Estimate.  
 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.  
 CAS: Chemical Abstracts Service.  
 DNEL: Derived No Effect Level.  
 GHS: Globally Harmonized System.  
 IATA: International Air Transport Association.  
 ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.  
 IMDG: International Maritime Dangerous Goods.  
 LC<sub>50</sub>: Lethal Concentration to 50 % of a test population.  
 LD<sub>50</sub>: Lethal Dose to 50% of a test population (Median Lethal Dose).  
 PBT: Persistent, Bioaccumulative and Toxic substance.  
 PNEC: Predicted No Effect Concentration.  
 REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.  
 RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.  
 SVHC: Substances of Very High Concern.  
 vPvB: Very Persistent and Very Bioaccumulative.  
 cATpE: Converted Acute Toxicity Point Estimate.  
 EC<sub>50</sub>: 50% of maximal Effective Concentration.  
 UN: United Nations.  
 IBC: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk (International Bulk Chemical Code).

**Revision date** 16/09/2021  
**Revision** 5  
**Supersedes date** 16/08/2017  
**SDS status** Approved.

**Hazard statements in full** H242 Heating may cause a fire.  
 H301 Toxic if swallowed.  
 H302 Harmful if swallowed.  
 H304 May be fatal if swallowed and enters airways.  
 H311 Toxic in contact with skin.  
 H312 Harmful in contact with skin.  
 H314 Causes severe skin burns and eye damage.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H318 Causes serious eye damage.  
 H319 Causes serious eye irritation.  
 H331 Toxic if inhaled.  
 H335 May cause respiratory irritation.  
 H373 May cause damage to organs through prolonged or repeated exposure.  
 H410 Very toxic to aquatic life with long lasting effects.  
 H411 Toxic to aquatic life with long lasting effects.  
 H412 Harmful to aquatic life with long lasting effects.

**Signature** Health and Safety Manager

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.