

**SECTION 1: Identification****1.1. Product identifier**

Product form	: Mixture
Product name	: Soft ToughRubber™, STR
Product code	: STR-TD-385-B
Synonyms	: CJ2101
Product group	: End product

**1.2. Recommended use and restrictions on use**

Restrictions on use	: Use only for intended applications.
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**1.3. Supplier****Manufacturer**

Adaptive3D  
608 Development Dr., Suite 200  
Plano, Texas 75074  
United States  
T 469-573-0024  
[SDSInfo@exone.com](mailto:SDSInfo@exone.com)

**1.4. Emergency telephone number**

Emergency number	: Emergency CONTACT (24-Hour-Number): Infotrac ID 106352: (USA domestic) 1 800 535 5053 or (International) 001 352 323 3500 or (GBK GmbH) ID 93315: +49
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**SECTION 2: Hazard identification****2.1. Classification of the substance or mixture****Classification (GHS CA)**

Skin Irrit. 2	H315	Causes skin irritation
Eye Dam. 1	H318	Causes serious eye damage
Skin Sens. 1	H317	May cause an allergic skin reaction
Carc. 2	H351	Suspected of causing cancer
STOT SE 3	H335	May cause respiratory irritation
Aquatic Acute 1	H400	Very toxic to aquatic life
Aquatic Chronic 1	H410	Very toxic to aquatic life with long lasting effects

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

**2.2. GHS Label elements, including precautionary statements****GHS CA labeling**

Hazard pictograms (GHS CA)



Signal word (GHS CA) : Danger

Hazard statements (GHS CA) : H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H318 - Causes serious eye damage  
H335 - May cause respiratory irritation

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Precautionary statements (GHS CA)	: H351 - Suspected of causing cancer H400 - Very toxic to aquatic life H410 - Very toxic to aquatic life with long lasting effects P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P261 - Avoid breathing dust/fume/gas/mist/vapors/spray. P264 - Wash hands, forearms and face 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. P302+P352 - IF ON SKIN: Wash with plenty of 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. P308+P313 - IF exposed or concerned: Get medical advice/attention. P310 - Immediately call a POISON CENTER or doctor. P312 - Call a POISON CENTER or doctor if you feel unwell. P321 - Specific treatment (see supplemental first aid instruction on this label). P332+P313 - If skin irritation occurs: Get medical advice/attention. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse. P391 - Collect spillage. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P405 - Store locked up. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
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### 2.3. Other hazards

No additional information available

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

No additional information available

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
4-Hydroxybutyl acrylate	2-Propenoic acid 4-hydroxybutyl ester	CAS-No.: 2478-10-6	30 – 70	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411

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Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
Isobornyl acrylate	exo-1,7,7-Trimethylbicyclo[2.2.1]hept-2-yl acrylate 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate, exo- / 2-propenoic acid, (1R,2R,4R)-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, rel- / 2-Propenoic acid, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo- / acrylic acid, isobornyl ester / AgiSyn 2870(BOA) / AL-CO-CURE IBA / ARONIX M 156 / EBECRYL IBOA / EBECRYL IBOA-B / exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate / exo-2-propenoic acid, 1,7,7-trimethylbicyclo(2.2.1)hept-2-yl ester / exo-isobornyl acrylate / IBOA (= isobornyl acrylate) / IBXA / isobornyl acrylate, exo- / light acrylate IBXA / light ester IBXA / M 156 / MPL 214 / NEWFRONTIER IBA / QM 589 / SARTOMER 506 / SARTOMER SR 506 / SR 506 / SR 506 (acrylate) / SR 506A / SR-506D	CAS-No.: 5888-33-5	10 – 30	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Aliphatic Urethane Acrylate	CN9004	-	10 – 30	Not classified

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Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
Pentaerythritol tetrakis(3-mercaptopbutylate)	Karenc MT PE1	CAS-No.: 31775-89-0	1 – 10	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Oxybispropanol dibenzoate ; Oxydipropyl dibenzoate	Oxybispropanol dibenzoate ; Oxydipropyl dibenzoate	CAS-No.: 27138-31-4	< 5	Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Siloxanes and Silicones, di-Me, 3-[2-(hydroxy-3-[(1-oxo-2-propenyl)oxy]propoxy]propyl group-terminated	-	CAS-No.: 125455-52-9	< 5	Not classified
Poly(tetrahydrofuran)	α-Hydro-ω-hydroxypoly(oxy-1,4-butanediyl) ; Poly(tetramethylene ether) glycol	CAS-No.: 25190-06-1	< 5	Not classified
Poly(ethylene glycol)-block-poly(propylene glycol)-block-poly(ethylene glycol)	Polyethylene-polypropylene glycol PEG-PPG-PEG	CAS-No.: 9003-11-6	< 5	Not classified
Isobornyl methacrylate	2-Methyl-2-propenoic acid exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester	CAS-No.: 7534-94-3	< 5	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2'-(Ethylenedioxy)diethanethiol	EDDT	CAS-No.: 14970-87-7	< 5	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Aromatic urethane acrylate	CN1967US	-	< 5	Not classified
Urethane Acrylate	CN9028	CAS-No.: 73297-27-5	< 5	Not classified
Urethane methacrylate	CN1970	-	< 5	Not classified
2-hydroxyethyl methacrylate	2-Hydroxyethyl methacrylate	CAS-No.: 868-77-9	< 5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317

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Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
Amorphous Silica	Silicon dioxide amorphous silica / amorphous silicon dioxide / bindzil / hydrated silica (=silicon dioxide, amorphous) / SHINONOX / SHIONOGIL / silica- / silica hydrate / silica hydrogel / silica sol / silica xerogel / silicic acid, anhydrous, amorphous / silicon dioxide / silicon(IV)oxide, amorphous / SP4-8661 / syton	CAS-No.: 7631-86-9	< 5	Not classified
2,2-bis(acryloyloxymethyl)butyl acrylate	2-Propenoic acid 2-ethyl-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester ; Trimethylolpropane triacrylate	CAS-No.: 15625-89-5	< 1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	CAS-No.: 75980-60-8	< 1	Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Pentaerythritol tris (3-mercaptopbutylate)	Butanoic acid, 3-mercaptop-, 1,1'-[2-(hydroxymethyl)-2-[(3-mercaptop-1-oxobutoxy)methyl]-1,3-propanediyl] ester	CAS-No.: 1027326-93-7	< 1	Aquatic Acute 1, H400
tetramethylene diacrylate	2-Propenoic acid 1,4-butanediyl ester ; 1,4-Butanediyl diacrylate	CAS-No.: 1070-70-8	< 1	Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 2, H401 Aquatic Chronic 2, H411

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Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
acrylic acid	2-Propenoic acid; Acrylic acid	CAS-No.: 79-10-7	< 1	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1A, H314 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
2,6-Di-tert-butyl-4-methylphenol	2,6-Di-tert-butyl-p-cresol	CAS-No.: 128-37-0	< 1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Carbon black	Carbon black ; Acetylene black	CAS-No.: 1333-86-4	< 1	STOT RE 1, H372
mequinol	4-Methoxyphenol ; Hydroquinone monomethyl ether, Mequinol	CAS-No.: 150-76-5	< 1	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 2, H401
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	Phenylbis(2,4,6-trimethylbenzoyl)phosphine oxide	CAS-No.: 162881-26-7	< 1	Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 4, H413
cyclohexane	Cyclohexane; Hexahydrobenzene	CAS-No.: 110-82-7	< 1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 3, H412

Comments : \*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

### 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. 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. Call a physician immediately.
- First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.
- First-aid measures general : IF exposed or concerned: Get medical advice/attention.

#### 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 : Serious damage to eyes.

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

- Other medical advice or treatment : Treat symptomatically.

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### SECTION 5: Fire-fighting measures

#### 5.1. Suitable extinguishing media

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

#### 5.2. Unsuitable extinguishing media

No additional information available

#### 5.3. Specific hazards arising from the hazardous product

Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 5.4. 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

No additional information available

#### 6.2. Methods and materials for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

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

#### 6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors. When product freezes or crystallizes, the inhibitor may become unevenly distributed. May polymerise. Avoid contact with : UV light, Heat, Keep away from sources of ignition - No smoking. Protect from freezing. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.

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 locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 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

<b>Hand protection:</b>
Protective gloves

<b>Eye protection:</b>
Safety glasses

<b>Skin and body protection:</b>
Wear suitable protective clothing

<b>Respiratory protection:</b>
When indicated by a risk assessment, Respiratory Protective Equipment must be used. The selection of the Respiratory Protective Device (RPD) must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected RPD.

#### Personal protective equipment symbol(s):



### SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Appearance	: Liquid.
Color	: Black
Odor	: Characteristic odour
Odor threshold	: No data available
pH	: No information available.
Relative evaporation rate (butyl acetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 225 °F Method: ASTM D93, PMCC
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapor pressure	: No data available



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Relative vapor density at 20°C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Explosion limits	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Can polymerize exothermically if heated, exposed to air, sunlight or by addition of free radical initiators.
Conditions to avoid	: Direct sunlight. Avoid excessive heat for prolonged periods of time. Avoid oxygen content above this product of: < 5%.
Incompatible materials	: Strong acids. reducing agents. Strong bases. Strong oxidizing agents. Catalyst. Peroxides. ketones. Aldehydes. inert gas. free radical. Amines. Acid anhydrides. Mineral acids. Metallic oxides.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hardening time:	: No additional information available

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

4-Hydroxybutyl acrylate (2478-10-6)	
LD50 oral rat	831 mg/kg
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity)
ATE CA (oral)	831 mg/kg body weight
Isobornyl acrylate (5888-33-5)	
LD50 oral rat	4350 mg/kg body weight (Rat, Male, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 5000 mg/kg Source: Corporate Solution From Thomson Micromedex
LD50 dermal rabbit	> 3000 mg/kg body weight (24 h, Rabbit, Male, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat (Dust/Mist)	5 mg/l
Pentaerythritol tetrakis(3-mercaptopbutylate) (31775-89-0)	
LD50 oral rat	> 2000 mg/kg Source: ECHA
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal))
LD50 dermal rabbit	> 2000 mg/kg Source: ECHA

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<b>2,2-bis(acryloyloxymethyl)butyl acrylate (15625-89-5)</b>	
LD50 oral rat	5000 mg/kg Source: RTECS
LD50 oral	5000 mg/kg
LD50 dermal rabbit	5170 mg/kg Source: RTECS
LD50 dermal	5170 mg/kg
<b>diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide (75980-60-8)</b>	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity), Guideline: other:
<b>Pentaerythritol tris (3-mercaptopbutylate) (1027326-93-7)</b>	
LD50 oral rat	> 2000 mg/kg Source: NICNAS; Toxic Substances Information Report
<b>tetramethylene diacrylate (1070-70-8)</b>	
LD50 oral rat	587 mg/kg Source: NLM, THOMSON
LD50 dermal rat	400 – 800 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
<b>acrylic acid (79-10-7)</b>	
LD50 oral rat	33.5 – 3200 mg/kg Source: NITE
LD50 oral	340 mg/kg
LD50 dermal rat	300 – 600 mg/kg Source: NITE
LD50 dermal rabbit	> 2000 mg/kg body weight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: other:
LD50 dermal	280 mg/kg
LC50 Inhalation - Rat	> 5.1 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
LC50 Inhalation - Rat (Dust/Mist)	2.75 mg/l/4h
LC50 Inhalation - Rat (Vapours)	3.6 mg/l/4h
<b>2,6-Di-tert-butyl-4-methylphenol (128-37-0)</b>	
LD50 oral rat	> 6000 mg/kg Source: ECHA
LD50 oral	2450 mg/kg
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal rabbit	> 2000 mg/kg Source: ECHA
LD50 dermal	2500 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	> 2 mg/l Source: OSHRI GLP toxicity test
<b>Carbon black (1333-86-4)</b>	
LD50 oral rat	> 8000 mg/kg Source: ECHA
LD50 oral	8000 mg/kg
LD50 dermal rabbit	> 8000 mg/kg Source: ECHA

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<b>Carbon black (1333-86-4)</b>	
LC50 Inhalation - Rat	> 4.6 mg/m <sup>3</sup>
<b>mequinol (150-76-5)</b>	
LD50 oral rat	1600 mg/kg Source: HSDB, ChemIDplus, NITE
LD50 oral	1600 mg/kg
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: other:
LD50 dermal rabbit	> 2000 mg/kg
LD50 dermal	2500 mg/kg
<b>phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide (162881-26-7)</b>	
LD50 oral rat	> 2000 mg/kg body weight Animal: rat, Guideline: EU Method B.1 (Acute Toxicity (Oral))
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: EU Method B.3 (Acute Toxicity (Dermal))
<b>Oxybispropanol dibenzoate ; Oxydipropyl dibenzoate (27138-31-4)</b>	
LD50 oral rat	4673 mg/kg
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: EPA OTS 798.1100 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: other:
LC50 Inhalation - Rat	> 200 mg/l air Animal: rat
<b>Poly(tetrahydrofuran) (25190-06-1)</b>	
LD50 oral rat	11340 mg/kg
LD50 dermal rabbit	8370 mg/kg
<b>Poly(ethylene glycol)-block-poly(propylene glycol)-block-poly(ethylene glycol) (9003-11-6)</b>	
LD50 oral rat	5000 mg/kg
<b>2,2'-(Ethylenedioxy)diethanethiol (14970-87-7)</b>	
LD50 oral rat	50 – 300 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)
<b>2-hydroxyethyl methacrylate (868-77-9)</b>	
LD50 oral rat	> 4000 mg/kg Source: OECD Screening Information Data Set
LD50 oral	5050 mg/kg
LD50 dermal rabbit	> 3000 mg/kg Source: OECD Screening Information Data Set
LD50 dermal	3000 mg/kg
<b>Amorphous Silica (7631-86-9)</b>	
LD50 oral rat	> 5000 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 oral	5110 mg/kg
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal rabbit	> 2000 mg/kg body weight (24 h, Rabbit, Experimental value, Dermal, 2 day(s))

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<b>Amorphous Silica (7631-86-9)</b>	
LD50 dermal	5000 mg/kg
LC50 Inhalation - Rat	> 5.01 mg/l (OECD 436: Acute inhalation toxicity-acute toxic class method, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 15 day(s))
LC50 Inhalation - Rat (Dust/Mist)	5.01 mg/l Source: ECHA

<b>cyclohexane (110-82-7)</b>	
LD50 oral rat	12705 mg/kg Source: ECHA
LD50 oral	6240 mg/kg
LD50 dermal rabbit	> 2000 mg/kg Source: ECHA
LD50 dermal	2500 mg/kg
LC50 Inhalation - Rat	> 32.88 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
LC50 Inhalation - Rat [ppm]	> 5540 ppm Source: ECHA
LC50 Inhalation - Rat (Vapours)	32.88 mg/l/4h

Skin corrosion/irritation : Causes skin irritation.  
pH: No information available.

<b>Isobornyl acrylate (5888-33-5)</b>	
pH	No data available in the literature

<b>diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide (75980-60-8)</b>	
pH	4 – 7

<b>mequinol (150-76-5)</b>	
pH	5.6

<b>Poly(ethylene glycol)-block-poly(propylene glycol)-block-poly(ethylene glycol) (9003-11-6)</b>	
pH	3.5 – 6.5

<b>Amorphous Silica (7631-86-9)</b>	
pH	6.5 – 7.5 (5 %)

Serious eye damage/irritation : Causes serious eye damage.  
pH: No information available.

<b>Isobornyl acrylate (5888-33-5)</b>	
pH	No data available in the literature

<b>diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide (75980-60-8)</b>	
pH	4 – 7

<b>mequinol (150-76-5)</b>	
pH	5.6

<b>Poly(ethylene glycol)-block-poly(propylene glycol)-block-poly(ethylene glycol) (9003-11-6)</b>	
pH	3.5 – 6.5

<b>Amorphous Silica (7631-86-9)</b>	
pH	6.5 – 7.5 (5 %)

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Respiratory or skin sensitization : May cause an allergic skin reaction.  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Suspected of causing cancer.

<b>2,2-bis(acryloyloxymethyl)butyl acrylate (15625-89-5)</b>	
IARC group	2B - Possibly carcinogenic to humans
<b>acrylic acid (79-10-7)</b>	
IARC group	3 - Not classifiable
<b>2,6-Di-tert-butyl-4-methylphenol (128-37-0)</b>	
NOAEL (chronic,oral,animal/male,2 years)	25 mg/kg body weight Animal: rat, Animal sex: male
IARC group	3 - Not classifiable
<b>Carbon black (1333-86-4)</b>	
IARC group	2B - Possibly carcinogenic to humans
<b>Amorphous Silica (7631-86-9)</b>	
NOAEL (chronic,oral,animal/male,2 years)	1800 – 3000 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
NOAEL (chronic,oral,animal/female,2 years)	1800 – 3200 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation.
<b>Isobornyl acrylate (5888-33-5)</b>	
STOT-single exposure	May cause respiratory irritation.
<b>cyclohexane (110-82-7)</b>	
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified
<b>Pentaerythritol tetrakis(3-mercaptopbutylate) (31775-89-0)</b>	
NOAEL (oral,rat,90 days)	150 mg/kg body weight Animal: rat, Guideline: other., Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
<b>2,2-bis(acryloyloxymethyl)butyl acrylate (15625-89-5)</b>	
NOAEL (oral,rat,90 days)	300 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
NOAEL (dermal,rat/rabbit,90 days)	> 500 mg/kg body weight Animal: rabbit
<b>tetramethylene diacrylate (1070-70-8)</b>	
NOAEL (oral,rat,90 days)	200 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
<b>acrylic acid (79-10-7)</b>	
LOAEL (oral,rat,90 days)	100 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 452 (Chronic Toxicity Studies)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

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<b>Carbon black (1333-86-4)</b>	
LOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.0071 mg/l air Animal: rat, Animal sex: male
NOAEL (oral, rat, 90 days)	> 1000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.0011 mg/l air Animal: rat, Animal sex: male
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
<b>mequinol (150-76-5)</b>	
LOAEL (oral, rat, 90 days)	300 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other:
NOAEL (oral, rat, 90 days)	150 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other:
<b>phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide (162881-26-7)</b>	
NOAEL (oral, rat, 90 days)	> 1000 mg/kg body weight Animal: rat, Guideline: EU Method B.7 (Repeated Dose (28 Days) Toxicity (Oral))
<b>Isobornyl methacrylate (7534-94-3)</b>	
LOAEC (inhalation, rat, gas, 90 days)	350 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)
NOAEC (inhalation, rat, gas, 90 days)	100 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)
<b>2,2'-(Ethylenedioxy)diethanethiol (14970-87-7)</b>	
NOAEL (oral, rat, 90 days)	60 mg/kg body weight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
<b>2-hydroxyethyl methacrylate (868-77-9)</b>	
LOAEC (inhalation, rat, gas, 90 days)	350 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)
NOAEC (inhalation, rat, gas, 90 days)	100 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)
<b>Amorphous Silica (7631-86-9)</b>	
NOAEL (dermal, rat/rabbit, 90 days)	≥ 10000 mg/kg body weight Animal: rabbit
Aspiration hazard	: Not classified
<b>Isobornyl acrylate (5888-33-5)</b>	
Viscosity, kinematic	No data available in the literature
<b>Amorphous Silica (7631-86-9)</b>	
Viscosity, kinematic	Not applicable (solid)
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	: Serious damage to eyes.

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### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : Very toxic to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term (acute) : Very toxic to aquatic life.

Hazardous to the aquatic environment, long-term (chronic) : Very toxic to aquatic life with long lasting effects.

<b>4-Hydroxybutyl acrylate (2478-10-6)</b>	
LC50 - Fish [1]	3.679 mg/l Source: ECOSAR
EC50 - Crustacea [1]	22.53 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	13.61 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
<b>Isobornyl acrylate (5888-33-5)</b>	
LC50 - Fish [1]	0.704 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value, GLP)
ErC50 algae	1.98 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)
EC50 72h - Algae [1]	1.98 mg/l Source: ECHA
EC50 72h - Algae [2]	0.596 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
NOEC (chronic)	0.092 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
LOEC (chronic)	0.277 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
<b>Pentaerythritol tetrakis(3-mercaptopbutylate) (31775-89-0)</b>	
LC50 - Fish [1]	0.16 mg/l Source: ECHA
EC50 - Crustacea [1]	9 mg/l
EC50 72h - Algae [1]	> 0.4 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
<b>2,2-bis(acryloyloxymethyl)butyl acrylate (15625-89-5)</b>	
LC50 - Fish [1]	0.87 mg/l
EC50 72h - Algae [1]	18.8 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	7.2 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 96h - Algae [1]	4.86 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
<b>diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (75980-60-8)</b>	
LC50 - Fish [1]	4.511 mg/l Source: Ecological Structure Activity Relationships
EC50 - Crustacea [1]	3.53 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 2.01 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	3.829 mg/l Source: Ecological Structure Activity Relationships

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<b>Pentaerythritol tris (3-mercaptopbutylate) (1027326-93-7)</b>	
LC50 - Fish [1]	0.16 mg/l Source: NICNAS; Toxic Substances Information Report
EC50 - Crustacea [1]	9 mg/l Source: NICNAS; Toxic Substances Information Report
EC50 72h - Algae [1]	> 0.4 mg/l Source: NICNAS; Toxic Substances Information Report
<b>tetramethylene diacrylate (1070-70-8)</b>	
LC50 - Fish [1]	2.878 mg/l Source: ECOSAR
EC50 - Crustacea [1]	4.59 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	1.76 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	1.771 mg/l Source: ECOSAR
<b>acrylic acid (79-10-7)</b>	
LC50 - Fish [1]	27 mg/l
EC50 - Crustacea [1]	95 mg/l Source: ECHA
ErC50 algae	0.13 mg/l
EC50 96h - Algae [1]	0.13 mg/l Source: ECHA
NOEC chronic fish	≥ 10.1 mg/l Test organisms (species): Oryzias latipes Duration: '45 d'
NOEC chronic algae	0.016 mg/l
LOEC (chronic)	8.1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
<b>2,6-Di-tert-butyl-4-methylphenol (128-37-0)</b>	
LC50 - Fish [1]	> 0.57 mg/l Source: EHCA
EC50 - Crustacea [1]	0.84 mg/l
EC50 72h - Algae [1]	> 0.4 mg/l Source: ECHA
NOEC chronic fish	0.053 mg/l
NOEC (chronic)	0.023 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
LOEC (chronic)	1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
<b>Carbon black (1333-86-4)</b>	
LC50 - Fish [1]	> 1000 mg/l Source: NITE
EC50 - Crustacea [1]	> 1000 mg/l Test organisms (species): Daphnia magna
ErC50 algae	> 10000 mg/l Source: EHCA
<b>mequinol (150-76-5)</b>	
LC50 - Fish [1]	28.5 mg/l Source: EHCA
EC50 - Crustacea [1]	2.2 mg/l
ErC50 algae	54.7 mg/l Source: EHCA
EC50 72h - Algae [1]	54.7 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	19 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)



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<b>mequinol (150-76-5)</b>	
NOEC (chronic)	0.68 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
LOEC (chronic)	1.45 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
<b>phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide (162881-26-7)</b>	
LC50 - Fish [1]	> 0.09 mg/l Test organisms (species): other:
EC50 - Other aquatic organisms [1]	> 1.175 mg/l Test organisms (species): other aquatic crustacea:
EC50 72h - Algae [1]	> 0.26 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
<b>Oxybispropanol dibenzoate ; Oxydipropyl dibenzoate (27138-31-4)</b>	
LC50 - Fish [1]	5.114 mg/l Source: ECOSAR
EC50 96h - Algae [1]	1.436 mg/l Source: ECOSAR
<b>Isobornyl methacrylate (7534-94-3)</b>	
LC50 - Fish [1]	0.313 mg/l Source: Ecological Structure Activity Relationships
EC50 - Crustacea [1]	> 2.57 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	2.28 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	2.66 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [2]	0.913 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
NOEC (chronic)	0.233 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
LOEC (chronic)	0.428 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
<b>2,2'-(Ethylenedioxy)diethanethiol (14970-87-7)</b>	
LC50 - Fish [1]	5.7 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	0.76 mg/l Test organisms (species): Daphnia magna
EC50 96h - Algae [1]	3.11 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [2]	1 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
<b>2-hydroxyethyl methacrylate (868-77-9)</b>	
LC50 - Fish [1]	> 100 mg/l Source: OECD Screening Information Data Set
EC50 - Crustacea [1]	380 mg/l
ErC50 algae	710 mg/l
EC50 72h - Algae [1]	345 mg/l Source: OECD Screening Information Data Set
EC50 72h - Algae [2]	345 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
NOEC (chronic)	24.1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic crustacea	24 mg/l
LOEC (chronic)	49.6 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

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<b>Amorphous Silica (7631-86-9)</b>	
LC50 - Fish [1]	10000 mg/l Source: ECHA
EC50 - Crustacea [1]	> 5000 mg/l Source: ECHA
EC50 72h - Algae [1]	> 173.1 mg/l (OECD 201: Alga, Growth Inhibition Test, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, GLP)
LOEC (chronic)	149.2 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

<b>cyclohexane (110-82-7)</b>	
LC50 - Fish [1]	4.53 mg/l Source: ECHA
EC50 - Crustacea [1]	0.9 mg/l
ErC50 algae	9.317 mg/l Source: ECHA
NOEC chronic algae	0.94 mg/l

### 12.2. Persistence and degradability

<b>Isobornyl acrylate (5888-33-5)</b>	
Not rapidly degradable	
Persistence and degradability	Not readily biodegradable in water.

<b>Amorphous Silica (7631-86-9)</b>	
Not rapidly degradable	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)

### 12.3. Bioaccumulative potential

<b>Isobornyl acrylate (5888-33-5)</b>	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
BCF - Fish [1]	37 (OECD 305: Bioconcentration: Flow-Through Fish Test, 56 h, Danio rerio, Flow-through system, Fresh water, Experimental value, GLP)
Partition coefficient n-octanol/water (Log Pow)	4.52 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method)

<b>Pentaerythritol tetrakis(3-mercaptopbutylate) (31775-89-0)</b>	
Partition coefficient n-octanol/water (Log Pow)	3.99

<b>2,2-bis(acryloyloxymethyl)butyl acrylate (15625-89-5)</b>	
Partition coefficient n-octanol/water (Log Pow)	2.86 Source: QSAR

<b>acrylic acid (79-10-7)</b>	
Partition coefficient n-octanol/water (Log Pow)	0.36 Source: ICSC

<b>2,6-Di-tert-butyl-4-methylphenol (128-37-0)</b>	
Partition coefficient n-octanol/water (Log Pow)	5.1 Source: HSDB

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<b>mequinol (150-76-5)</b>	
Partition coefficient n-octanol/water (Log Pow)	1.23 Source: ECHA
<b>Oxybispropanol dibenzoate ; Oxydipropyl dibenzoate (27138-31-4)</b>	
Partition coefficient n-octanol/water (Log Pow)	3.88
<b>Isobornyl methacrylate (7534-94-3)</b>	
Partition coefficient n-octanol/water (Log Pow)	4.77 Source: The Chemical Database, The Department of Chemistry at the University of Akron
<b>2-hydroxyethyl methacrylate (868-77-9)</b>	
Partition coefficient n-octanol/water (Log Pow)	0.42 Source: ICSC
<b>Amorphous Silica (7631-86-9)</b>	
Bioaccumulative potential	Not bioaccumulative.
<b>cyclohexane (110-82-7)</b>	
Partition coefficient n-octanol/water (Log Pow)	3.4 Source: ICSC

### 12.4. Mobility in soil

<b>Isobornyl acrylate (5888-33-5)</b>	
Surface tension	69.6 mN/m (20 °C, OECD 115: Surface Tension of Aqueous Solutions)
Ecology - soil	Low potential for mobility in soil.
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.71 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP)
<b>diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide (75980-60-8)</b>	
Mobility in soil	784.8 Source: Quantitative Structure Activity Relation
<b>acrylic acid (79-10-7)</b>	
Mobility in soil	6 – 137 Source: ECHA
<b>Amorphous Silica (7631-86-9)</b>	
Surface tension	No data available in the literature
Ecology - soil	No (test)data on mobility of the substance available.

### 12.5. Other adverse effects

Ozone : Not classified

## 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

In accordance with TDG / IMDG / IATA

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according to the Hazardous Products Regulation (February 11, 2015)

TDG	IMDG	IATA
<b>14.1. UN number</b>		
UN3082	3082	3082
<b>14.2. Proper Shipping Name</b>		
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.)	Environmentally hazardous substance, liquid, n.o.s. (ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.)
<b>Transport document description</b>		
UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.), 9, III
<b>14.3. Transport hazard class(es)</b>		
9	9	9
		
<b>14.4. Packing group</b>		
III	III	III
<b>14.5. Environmental hazards</b>		
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes
No supplementary information available		

### 14.6. Special precautions for user

#### TDG

UN-No. (TDG)

: UN3082

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according to the Hazardous Products Regulation (February 11, 2015)

TDG Special Provisions	: 16 - (1) The technical name of at least one of the most dangerous substances that predominantly contributes to the hazard or hazards posed by the dangerous goods must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(ii)(A) of Part 3 (Documentation). The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3) of Part 4 (Dangerous Goods Safety Marks). (2) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law for domestic transport or an international convention for international transport prohibits the disclosure of the technical name: (a) UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S; (b) UN1851, MEDICINE, LIQUID, TOXIC, N.O.S; (c) UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S; (d) UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S; or (e) UN3249, MEDICINE, SOLID, TOXIC, N.O.S. (3) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a small means of containment: (a) UN2814, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or (b) UN2900, INFECTIOUS SUBSTANCE, AFFECTING ANIMALS, 99 - (1) Mixtures of solids that are not dangerous goods and liquids or solids that are UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S, or UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S, may be handled, offered for transport or transported as UN3077 if there is no visible liquid when the dangerous goods are loaded into a means containment and during transport. (2) These Regulations, except for Part 1 (Coming into Force, Repeal, Interpretation, General Provisions and Special Cases) and Part 2 (Classification), do not apply to the handling, offering for transport or transporting of less than 450 kg of UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S, or less than 450 L of UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S, on a road vehicle or a railway vehicle. The dangerous goods must be contained in one or more small means of containment designed, constructed, filled, closed, secured and maintained so that under normal conditions of transport, including handling, there will be no accidental release of the dangerous goods that could endanger public safety.
Explosive Limit and Limited Quantity Index	: 5 L
Excepted quantities (TDG)	: E1
Emergency Response Guide (ERG) Number	: 171
<b>IMDG</b>	
Special provision (IMDG)	: 274, 335, 969
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: LP01, P001
Packing provisions (IMDG)	: PP1
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1, TP29
EmS-No. (Fire)	: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage)	: S-F - SPILLAGE SCHEDULE Foxtrot - WATER-SOLUBLE MARINE POLLUTANTS
Stowage category (IMDG)	: A
<b>IATA</b>	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y964
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 964
PCA max net quantity (IATA)	: 450L
CAO packing instructions (IATA)	: 964
CAO max net quantity (IATA)	: 450L

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Special provision (IATA) : A97, A158, A197, A215  
ERG code (IATA) : 9L

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

Not applicable

## SECTION 15: Regulatory information

### 15.1. National regulations

#### 4-Hydroxybutyl acrylate (2478-10-6)

Listed on the Canadian DSL (Domestic Substances List)

#### Isobornyl acrylate (5888-33-5)

Listed on the Canadian DSL (Domestic Substances List)

#### Pentaerythritol tetrakis(3-mercaptopbutylate) (31775-89-0)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

#### 2,2-bis(acryloyloxymethyl)butyl acrylate (15625-89-5)

Listed on the Canadian DSL (Domestic Substances List)

#### diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide (75980-60-8)

Listed on the Canadian DSL (Domestic Substances List)

#### Pentaerythritol tris (3-mercaptopbutylate) (1027326-93-7)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

#### tetramethylene diacrylate (1070-70-8)

Listed on the Canadian NDSL (Non-Domestic Substances List)

#### acrylic acid (79-10-7)

Listed on the Canadian DSL (Domestic Substances List)

#### 2,6-Di-tert-butyl-4-methylphenol (128-37-0)

Listed on the Canadian DSL (Domestic Substances List)

#### Carbon black (1333-86-4)

Listed on the Canadian DSL (Domestic Substances List)

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### mequinol (150-76-5)

Listed on the Canadian DSL (Domestic Substances List)

### phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide (162881-26-7)

Listed on the Canadian DSL (Domestic Substances List)

Canada DSL NDSL Flags

Substance was manufactured or imported after July 1, 1995

### Oxybispropanol dibenzoate ; Oxydipropyl dibenzoate (27138-31-4)

Listed on the Canadian DSL (Domestic Substances List)

### Siloxanes and Silicones, di-Me, 3-[2-(hydroxy-3-[(1-oxo-2-propenyl)oxy]propoxy]propyl group-terminated (125455-52-9)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

### Poly(tetrahydrofuran) (25190-06-1)

Listed on the Canadian DSL (Domestic Substances List)

### Poly(ethylene glycol)-block-poly(propylene glycol)-block-poly(ethylene glycol) (9003-11-6)

Listed on the Canadian DSL (Domestic Substances List)

### Isobornyl methacrylate (7534-94-3)

Listed on the Canadian DSL (Domestic Substances List)

### 2,2'-(Ethylenedioxy)diethanethiol (14970-87-7)

Listed on the Canadian NDSL (Non-Domestic Substances List)

### Urethane Acrylate (73297-27-5)

Listed on the Canadian DSL (Domestic Substances List)

Canada DSL NDSL Flags

Substance was manufactured or imported during the transitional period (e.g. January 1, 1987 and July 1, 1994)

### 2-hydroxyethyl methacrylate (868-77-9)

Listed on the Canadian DSL (Domestic Substances List)

### Amorphous Silica (7631-86-9)

Listed on the Canadian DSL (Domestic Substances List)

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### cyclohexane (110-82-7)

Listed on the Canadian DSL (Domestic Substances List)

## 15.2. International regulations

### Soft ToughRubber™, STR

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

### 4-Hydroxybutyl acrylate (2478-10-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory  
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)

### Isobornyl acrylate (5888-33-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory  
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

### Aliphatic Urethane Acrylate

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

### Pentaerythritol tetrakis(3-mercaptopbutylate) (31775-89-0)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

### 2,2-bis(acryloyloxymethyl)butyl acrylate (15625-89-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory  
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)



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### diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (75980-60-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory  
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

### Pentaerythritol tris (3-mercaptopbutylate) (1027326-93-7)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

### tetramethylene diacrylate (1070-70-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory  
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

### acrylic acid (79-10-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory  
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

### 2,6-Di-tert-butyl-4-methylphenol (128-37-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory  
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)

### Carbon black (1333-86-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)

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### mequinol (150-76-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory  
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

### phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide (162881-26-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

### Oxybispropanol dibenzoate ; Oxydipropyl dibenzoate (27138-31-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory  
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)

### Siloxanes and Silicones, di-Me, 3-[2-(hydroxy-3-[(1-oxo-2-propenyl)oxy]propoxy]propyl group-terminated (125455-52-9)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Not listed on the United States TSCA (Toxic Substances Control Act) inventory

### Poly(tetrahydrofuran) (25190-06-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory  
Listed on INSQ (Mexican National Inventory of Chemical Substances)

### Poly(ethylene glycol)-block-poly(propylene glycol)-block-poly(ethylene glycol) (9003-11-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on NZIoC (New Zealand Inventory of Chemicals)

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### Isobornyl methacrylate (7534-94-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
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Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)

### 2,2'-(Ethylenedioxy)diethanethiol (14970-87-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory  
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

### Aromatic urethane acrylate

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

### Urethane Acrylate (73297-27-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on NZIoC (New Zealand Inventory of Chemicals)

### Urethane methacrylate

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

### 2-hydroxyethyl methacrylate (868-77-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
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Listed on the Japanese ENCS (Existing New Chemical Substances) inventory  
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

### Amorphous Silica (7631-86-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
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Listed on INSQ (Mexican National Inventory of Chemical Substances)

# Soft ToughRubber™, STR

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according to the Hazardous Products Regulation (February 11, 2015)

### cyclohexane (110-82-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory  
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

## SECTION 16: Other information

Issue date : 12-01-2023

### Full text of H-phrases:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard Category 1
Aquatic Acute 2	Hazardous to the aquatic environment – Acute Hazard Category 2
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard Category 3
Aquatic Chronic 4	Hazardous to the aquatic environment – Chronic Hazard Category 4
Asp. Tox. 1	Aspiration hazard Category 1
Carc. 2	Carcinogenicity Category 2
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Flam. Liq. 2	Flammable liquids Category 2
Flam. Liq. 3	Flammable liquids Category 3
Flam. Liq. 4	Flammable liquids Category 4
Skin Corr. 1A	Skin corrosion/irritation Category 1A
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization, Category 1
Skin Sens. 1A	Skin sensitization, category 1A
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

# Soft ToughRubber™, STR

## Safety Data Sheet

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Full text of H-phrases:	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H227	Combustible liquid
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
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
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H351	Suspected of causing cancer
H372	Causes damage to organs through prolonged or repeated exposure
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
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
H413	May cause long lasting harmful effects to aquatic life

Safety Data Sheet (SDS), Canada

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.