

# SAFETY DATA SHEET (SDS)



**Manufacturer:**  
Covestro

**Product Name:**  
Covestro DeSolite® DF-0009 Single Coat Optical Fiber Coating, UV Cure (1 kg)

**Manufacturer Part Number:**  
COV-DF-0009-1KG

▶ Click here for more details on the Covestro DeSolite® DF-0009 Single Coat Optical Fiber Coating, UV Cure (1 kg)

Safety Data Sheet according to Regulation (EU) No. 1907/2006 as amended



## DeSolite DF-0009

Version 14.0

Revision Date 12.12.2023

Print Date 13.12.2023

This document is formatted for A4 paper size

Contact the professionals at Fiber Optic Center for a quote or to get more details.

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Data is subject to change without notice. FOC last update 29/01/2026.

## DeSolite DF-0009

Version 14.0

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

#### 1.1 Product identifier

#### DESOLITE DF-0009

Material number: 50025051

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

Use:

UV-curable coatings, inks and matrix materials.

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

Covestro Deutschland AG  
COV Global Product Safety  
D-51365 LEVERKUSEN

Tel.: +49 214 6009 8134  
e-mail: ProductSafetyEMLA@covestro.com

#### 1.4 Emergency telephone number

+1-703-527-3887 (Chemtrec)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Skin irritation, Category 2 (H315)  
Serious eye damage, Category 1 (H318)  
Sensitization of the skin, Category 1 (H317)  
Reproductive toxicity, Category 1B (H360FD)  
Chronically hazardous to the aquatic environment, Category 3 (H412)

#### 2.2 Label elements



#### Hazardous components which must be listed on the label

Bisphenol A-epichlorohydrin copolymer acrylate laurate  
N,N-dimethylacrylamide  
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate  
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one  
3-Trimethoxysilylpropane-1-thiol  
2-hydroxyethyl acrylate

#### Hazard statements:

H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H360FD May damage fertility. May damage the unborn child.  
H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements:**

- P201 Obtain special instructions before use.  
 P261 Avoid breathing mist or vapours.  
 P264 Wash skin thoroughly after handling.  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.  
 P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.  
 P308 + P313 IF exposed or concerned: Get medical advice/ attention.

**Supplementary hazardous characteristics and labeling elements:**

Restricted to professional users.

**2.3 Other hazards**

The following percentage of the mixture consists of ingredient(s) with unknown acute inhalation toxicity: 1 %

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**SECTION 3: Composition/information on ingredients**

**Type of product:** Mixture

**3.2 Mixtures****Hazardous components**

Acrylated resin

Concentration [wt.-%]: **>= 25 - < 50**

Classification (1272/2008/CE): Skin Irrit. 2 H315 Eye Irrit. 2 H319

Bisphenol A-epichlorohydrin copolymer acrylate laurate

Concentration [wt.-%]: **>= 25 - < 50**

CAS-No.: 68071-07-8

Classification (1272/2008/CE): Skin Sens. 1B H317

Reaction mass of Dodecyl Acrylate and Tridecyl Acrylate

Concentration [wt.-%]: **>= 10 - < 20**

EC-No.: 911-296-4

Classification (1272/2008/CE): Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 3 H335 Aquatic Chronic 2 H411

N,N-dimethylacrylamide

Concentration [wt.-%]: **>= 5 - < 10**

EC-No.: 220-237-5

Classification (1272/2008/CE): Acute Tox. 3 Oral H301 Acute Tox. 3 Dermal H311 Eye Dam. 1 H318

ATE (oral): 215 mg/kg

ATE (dermal): 541 mg/kg

Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate

Concentration [wt.-%]: **< 10**

EC-No.: 500-130-2

REACH Registration Number: 01-2119490020-53

CAS-No.: 55818-57-0

Classification (1272/2008/CE): Skin Sens. 1 H317 Aquatic Chronic 2 H411

2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one

Concentration [wt.-%]: **< 2.5**

Index-No.: 606-041-00-6

EC-No.: 400-600-6

CAS-No.: 71868-10-5

Classification (1272/2008/CE): Acute Tox. 4 Oral H302 Repr. 1B H360FD Aquatic Chronic 2 H411

ATE (oral): 1,984 mg/kg

2,2-dimethoxy-1,2-diphenylethan-1-one

Concentration [wt.-%]: **< 2.5**

EC-No.: 246-386-6

CAS-No.: 24650-42-8

Classification (1272/2008/CE): Acute Tox. 4 Oral H302 STOT RE 2 H373 Aquatic Chronic 3 H412

3-Trimethoxysilylpropane-1-thiol

Concentration [wt.-%]: &lt; 1

EC-No.: 224-588-5

CAS-No.: 4420-74-0

Classification (1272/2008/CE): Acute Tox. 4 Oral H302 Skin Sens. 1B H317 Aquatic Chronic 2 H411

ATE (oral): 741 mg/kg

2-hydroxyethyl acrylate

Concentration [wt.-%]: &lt; 1

Index-No.: 607-072-00-8

EC-No.: 212-454-9

REACH Registration Number: 01-2119459345-34

CAS-No.: 818-61-1

Classification (1272/2008/CE): Acute Tox. 4 Oral H302 Acute Tox. 3 Dermal H311 Skin Corr. 1B H314 Eye

Dam. 1 H318 Skin Sens. 1 H317 Aquatic Acute 1 H400 Aquatic Chronic 3 H412

Specific threshold concentration (GHS):

Skin Sens. 1 H317 &gt;= 0.2 %

M-factor (acute aquat. tox.): 1

ATE (oral): 540 mg/kg

ATE (dermal): 1,000.1 mg/kg

**Candidate List of Substances of Very High Concern for Authorisation**

This product contains substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 59).

2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one

CAS-No.: 71868-10-5

**SECTION 4: First aid measures****4.1 Description of first aid measures****General advice:** Take off all contaminated clothing immediately.

For effective first-aid, special training / education is needed.

**If inhaled:** Take the person into the fresh air and keep him warm, let him rest; if there is difficulty in breathing, medical advice is required. If unconscious, place in recovery position and seek medical advice. Oxygen or artificial respiration if needed. If breathing is irregular or stopped, administer artificial respiration. Keep respiratory tract clear. Consult a physician if necessary.

Inhalation may provoke the following symptoms: respiratory tract irritation coughing

In the case of hazardous fumes, wear self contained breathing apparatus.

**In case of skin contact:** In case of skin contact wash affected areas thoroughly with soap and plenty of water. Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. Thoroughly clean shoes before reuse. Consult a doctor in the event of a skin reaction.

Most important symptoms Skin irritation Redness

**In case of eye contact:** Hold the eyes open and rinse with preferably lukewarm water for a sufficiently long period of time (at least 10 minutes). Contact an ophthalmologist. Remove contact lenses.

Eye contact may provoke the following symptoms irritant effects eye redness

**If swallowed:** Do not induce vomiting without medical advice. Rinse mouth. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If a person vomits when lying on his back, place him in the recovery position. Never give anything by mouth to an unconscious person.

If victim is conscious: Give small amounts of water to drink.

If symptoms persist, call a physician or Poison Control Centre immediately.

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

**Notes to physician:** Treat symptomatically.

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

**Therapeutic measures:** No information available.

### **SECTION 5: Firefighting measures**

#### **5.1 Extinguishing media**

**Suitable extinguishing media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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

Formation of carbon monoxide, carbon dioxide and other toxic gases in the event of fire or during thermal decomposition. Fire will produce dense black smoke containing hazardous combustion products (see section 10). In case of fire, may produce hazardous decomposition products such as: Acrylate monomers Aldehydes Organic acids

In the event of fire and/or explosion do not breathe fumes. Cool endangered vessels and containers with sprayed water. Heating raises pressure with consequent risk of bursting and explosion.

#### **5.3 Advice for fire-fighters**

Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

Do not allow contaminated extinguishing water to enter the soil, ground-water or surface waters. Immediately evacuate personnel to safe areas.

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

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

Immediately evacuate personnel to safe areas. Avoid breathing mist or vapours. Put on protective equipment (see section 8). Ensure adequate ventilation/exhaust extraction. Keep unauthorized persons away. In case of insufficient ventilation, wear suitable respiratory equipment.

#### **6.2 Environment related measures**

Do not allow to escape into waterways, wastewater or soil. If the product contaminates rivers and lakes or drains inform respective authorities. Inform the responsible authorities in case of gas leakage, or of entry into waterways, soil or drains. Collect spillage. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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

Soak up with inert absorbent material and dispose of as hazardous waste. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Dispose of wastes in an approved waste disposal facility. Do not discharge large quantities of concentrated spills or residues into

surface water or sanitary sewer system.

#### **6.4 Reference to other sections**

For personal protection see section 8. For further disposal measures see section 13.

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

#### **7.1 Precautions for safe handling**

For personal protection see section 8. Avoid contact with skin, eyes and clothing. Do not breathe mist or vapours. Do not ingest. Ensure adequate ventilation and, if necessary, exhaust ventilation when handling or transferring the product. In case of insufficient ventilation, wear suitable respiratory equipment. The precautions required in the handling of acrylic acid esters must be taken. Do not re-use empty containers.

Smoking, eating and drinking should be prohibited in the application area. Wash skin thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas.

Persons who suffer from skin complaints or other hypersensitivity reactions of skin should not work with the product.

The personal protective measures described in section 8 must be observed. Avoid contact with skin and eyes absolutely.

Keep away from foodstuffs, drinks and tobacco. Wash hands before breaks and at end of work and use skin-protecting ointment. Keep working clothes separately. Change contaminated or soaked clothing immediately.

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

Keep container dry and tightly closed in a cool and well ventilated place. Store in original container. Protect against heat and direct sunlight. Store locked up. When not in use, keep containers tightly closed. Keep in properly labelled containers. Use appropriate container to avoid environmental contamination. Polymerisation is a highly exothermic reaction and may generate sufficient heat to cause thermal decomposition and/or rupture containers. Inhibitor only effective in the presence of oxygen.

Recommended storage temperature: 15 - 30 °C

#### **7.3 Specific end use(s)**

UV-curable coatings, inks and matrix materials.

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

UK Workplace Exposure Limits (WEL), per EH40 document (Health & Safety Executive). If no UK value exists, EU exposure limits given where available.

#### **8.1 Control parameters**

Contains no substances with occupational exposure limit values.

#### **Derived No Effect Level (DNEL)**

##### **2-hydroxyethyl acrylate**

Value type	Route of exposure	Health Effects	Value	Remarks
Workers	Inhalation	Long-term local effects	2.4 mg/m <sup>3</sup>	

**Predicted No Effect Concentration (PNEC)****2-hydroxyethyl acrylate**

Compartment	Value	Remarks
Fresh water	0.0096 mg/l	
Fresh water sediment	0.0355 mg/kg	
Marine water	0.00096 mg/l	
Marine sediment	0.00355 mg/kg	
Sewage treatment plant	10 mg/l	
Soil	0.00147 mg/kg	
Intermittent use/release	0.0361 mg/l	

**8.2 Exposure controls****Appropriate engineering controls**

If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Respiratory protection**

Respiratory protection required in insufficiently ventilated working areas and during spraying. Respirator with a gas filter

**Hand protection**

Protective gloves complying with EN 374.

Nitrile rubber: thickness  $\geq 0.12\text{mm}$ ; Break through time:  $< 60\text{ min}$

Contaminated and/or damaged gloves must be changed. Avoid natural rubber gloves. Do not wear PVC gloves, as PVC absorbs acrylates.

**Eye protection**

Safety glasses with side-shields

Equipment should conform to EN 166

**Skin and body protection**

Use protective clothing (chemically resistant). Protective suit

Equipment should conform to EN 1149

**Further protective measures**

Wash face, hands and any exposed skin thoroughly after handling. Use appropriate degowning techniques to remove potentially contaminated clothing. Take off contaminated clothing and wash it before reuse. Ensure that eyewash stations and safety showers are close to the workstation location.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Physical state:	liquid at 20 °C at 1,013 hPa
Colour:	colourless to yellowish
Odour:	characteristic
Odour Threshold:	not established
pH:	not established
Melting point/freezing point:	not established
Boiling point/boiling range:	not established
Flash point:	> 100 °C, closed cup
Evaporation rate:	not established
Flammability (solid, gas):	not applicable
Burning number:	not applicable
Upper/lower flammability or explosive limits:	not established
Vapour pressure:	not established

Relative vapour density:	not established
Density:	1.12 g/cm <sup>3</sup> at 20 °C
Miscibility with water:	not established
Water solubility:	insoluble
Surface tension:	not established
Partition coefficient (n-octanol/water):	not established
Auto-ignition temperature:	not applicable
Ignition temperature:	not established
Decomposition temperature:	not established
Heat of combustion:	not established
Viscosity, dynamic:	5,700 - 7,700 mPa.s at 20 °C
Viscosity, kinematic:	not established

## 9.2 Other information

The indicated values do not necessarily correspond to the product specification. Please refer to the technical information sheet for specification data.

Explosive properties:	not established
Dust explosion class:	not applicable
Oxidising properties:	not established

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

None known.

### 10.2 Chemical stability

Stable under recommended storage conditions. The product is chemically stable.

### 10.3 Possibility of hazardous reactions

In case of heating risk of exothermic polymerisation. Strong exothermic reactions with peroxides may occur in presence of heavy metal ions.

### 10.4 Conditions to avoid

Keep away from heat and sources of ignition.  
Exposure to sunlight.

### 10.5 Incompatible materials

Exothermic reaction with: Strong acids and strong bases polymerisation initiators Avoid radical-forming starting agents, peroxides and reactive metals.

### 10.6 Hazardous decomposition products

No hazardous decomposition products when stored and handled correctly.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity, oral

ATEmix (oral): > 2,000 mg/kg

Method: Calculation method

Bisphenol A-epichlorohydrin copolymer acrylate laurate  
LD50 rat, female: > 2,000 mg/kg

N,N-dimethylacrylamide  
LD50 rat, male/female: > 215 mg/kg

Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate  
LD50 rat, male/female: > 2,000 mg/kg  
Method: OECD Test Guideline 401

2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one  
LD50 rat, male/female: 1,984 mg/kg  
Method: OECD Test Guideline 401

2,2-dimethoxy-1,2-diphenylethan-1-one  
LD50 rat, male/female: 1,470 mg/kg

3-Trimethoxysilylpropane-1-thiol  
LD50 rat, male: 893 mg/kg  
Method: OECD Test Guideline 401

LD50 rat, female: 741 mg/kg  
Method: OECD Test Guideline 401

2-hydroxyethyl acrylate  
LD50 rat, male/female: 540 mg/kg

**Acute toxicity, dermal**  
ATEmix (dermal):> 2,000 mg/kg  
Method: Calculation method

Bisphenol A-epichlorohydrin copolymer acrylate laurate  
LD50 rat: > 2,000 mg/kg

N,N-dimethylacrylamide  
LD50 rabbit: 541 - 910 mg/kg

Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate  
LD50 rat, male/female: > 2,000 mg/kg  
Method: OECD Test Guideline 402

2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one  
LD50 rat, male/female: > 2,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity  
Method: OECD Test Guideline 402

2,2-dimethoxy-1,2-diphenylethan-1-one  
LD50 rat, male/female: > 5,000 mg/kg

3-Trimethoxysilylpropane-1-thiol  
LD50 rabbit, male/female: > 2,000 mg/kg  
Method: OECD Test Guideline 402

2-hydroxyethyl acrylate  
LD50 rat, male/female: > 1,000 mg/kg  
Method: OECD Test Guideline 402

**Acute toxicity, inhalation**  
Bisphenol A-epichlorohydrin copolymer acrylate laurate  
LC50 rat: > 4.9 mg/l, 4 h  
Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute inhalation toxicity  
Method: OECD Test Guideline 403

Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate  
No data available.

2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one

Assessment: no data available

No data available, supplier information

3-Trimethoxysilylpropane-1-thiol

rat, male/female:

Test atmosphere: vapour

Assessment: The substance or mixture has no acute inhalation toxicity

Method: OECD Test Guideline 403

An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.

2-hydroxyethyl acrylate

LC50 rat, female: > 1.45 mg/l, 7 h

Test atmosphere: vapour

Assessment: The substance or mixture has no acute inhalation toxicity

### **Primary skin irritation**

Acrylated resin

Classification: Causes skin irritation.

Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate

Species: rabbit

Result: non-irritant

Classification: No skin irritation

Method: OECD Test Guideline 404

2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one

Species: rabbit

Result: non-irritant

Classification: No skin irritation

Method: OECD Test Guideline 404

3-Trimethoxysilylpropane-1-thiol

Species: rabbit

Result: non-irritant

Classification: No skin irritation

Method: OECD Test Guideline 404

2-hydroxyethyl acrylate

Species: rabbit

Result: Corrosive

Classification: Causes severe skin burns and eye damage (Skin Corr. 1B).

### **Primary mucosae irritation**

Acrylated resin

Classification: Causes serious eye irritation.

N,N-dimethylacrylamide

Classification: Causes serious eye damage.

Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate

Species: rabbit

Result: slight irritant

Classification: No eye irritation

Method: OECD Test Guideline 405

2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one

Species: rabbit

Result: slight irritant

Classification: No eye irritation

Method: OECD Test Guideline 405

## 3-Trimethoxysilylpropane-1-thiol

Species: rabbit

Result: slight irritant

Classification: No eye irritation

Method: OECD Test Guideline 405

## 2-hydroxyethyl acrylate

Species: rabbit

Result: Corrosive

Classification: Causes serious eye damage.

**Sensitisation**

Bisphenol A-epichlorohydrin copolymer acrylate laurate

Classification: May cause sensitization by skin contact (Sub cat. 1B)

## Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate

Skin sensitization (local lymph node assay (LLNA)):

Species: Mouse

Result: positive

Classification: May cause sensitization by skin contact.

Method: OECD Test Guideline 429

## Respiratory sensitization

No data available.

## 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one

Skin sensitisation:

Species: Guinea pig

Result: negative

Classification: Does not cause skin sensitization.

Method: OECD Test Guideline 406

## Respiratory sensitization

no data available

## 3-Trimethoxysilylpropane-1-thiol

Skin sensitisation according to Buehler (epicutaneous test):

Species: Guinea pig

Result: positive

Classification: May cause sensitization by skin contact (Sub cat. 1B)

Method: OECD Test Guideline 406

## Respiratory sensitization

No data available.

## 2-hydroxyethyl acrylate

Skin sensitization (local lymph node assay (LLNA)):

Species: Mouse

Result: positive

Classification: May cause sensitization by skin contact.

**Subacute, subchronic and prolonged toxicity**

Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate

LOAEL (Lowest observable adverse effect level): 100 mg/kg

Application Route: Oral

Species: rat, male/female

Dose Levels: 0 - 100 - 300 - 1000 mg/kg bw/day

Method: OECD Test Guideline 408

## 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one

NOAEL: 100 mg/kg

Application Route: Oral

Species: rat, male/female

Exposure duration: 4 Weeks

Frequency of treatment: daily

Method: OECD Test Guideline 407

3-Trimethoxysilylpropane-1-thiol  
No data available.

2-hydroxyethyl acrylate  
NOAEL: 0.0024 mg/l  
Application Route: Inhalative  
Species: rat, male/female  
Dose Levels: 0 - 0,0024 - 0,024 mg/l  
Exposure duration: 1,5 a  
Test substance: vapour

#### **Carcinogenicity**

Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate  
No data available.

2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one  
No data available.

3-Trimethoxysilylpropane-1-thiol  
No data available.

2-hydroxyethyl acrylate  
Species: rat, male/female  
Application Route: Inhalative  
Dose Levels: 0 - 0,0024 - 0,024 mg/l  
Test substance: vapour  
Exposure duration: 1,5 a  
Result: Animal testing did not show any carcinogenic effects.

#### **Reproductive toxicity/Fertility**

Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate  
NOAEL (parents, generelly toxicity): >= 200 mg/kg bw/day  
NOAEL (parents, fertility): >= 200 mg/kg bw/day  
NOAEL (offspring): >= 200 mg/kg bw/day  
Species: rat, male/female  
Application Route: Oral  
Dose Levels: 0 - 40 - 100 - 200 mg/kg bw/day  
Method: OECD Test Guideline 443

NOAEL (parents, generelly toxicity): > 900 mg/kg  
NOAEL (parents, fertility): > 900 mg/kg  
Test type: Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test  
Species: rat, male/female  
Application Route: Oral  
Method: OECD Test Guideline 422

2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one  
NOAEL (parents, generelly toxicity): 40 mg/kg body weight/day  
NOAEL (parents, fertility): 40 mg/kg body weight/day  
NOAEL (offspring): 40 mg/kg body weight/day  
Species: rat, male/female  
Application Route: Oral  
Frequency of treatment: daily  
Method: OECD Test Guideline 415

3-Trimethoxysilylpropane-1-thiol  
No data available.

2-hydroxyethyl acrylate  
NOAEL (parents, generelly toxicity): 0,019 mg/l  
NOAEL (parents, fertility): 0,269 mg/l  
NOAEL (offspring): 0,092 mg/l  
Test type: Two-generation study  
Species: rat, male/female  
Dose Levels: 0- 0,019 - 0,092 - 0,269 mg/l  
Test substance: vapour  
Method: OECD Test Guideline 416

Toxicological studies of a comparable product.

**Reproductive toxicity/Developmental Toxicity/Teratogenicity**

Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate

NOAEL (teratogenicity): 1000 mg/kg bw/day

NOAEL (maternal): > 1000 mg/kg bw/day

Species: rat, female

Application Route: Oral

Dose Levels: 0 - 100 - 300 - 1000 mg/kg bw/day

Method: OECD Test Guideline 414

NOAEL (teratogenicity): 1000 mg/kg bw/day

NOAEL (maternal): 1000 mg/kg bw/day

Species: rabbit, female

Application Route: Oral

Dose Levels: 0 - 100 - 300 - 1000 mg/kg bw/day

Method: OECD Test Guideline 414

2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one

NOAEL (maternal): 40 mg/kg

LOAEL (teratogenicity): 40 mg/kg

LOAEL (developmental toxicity): 40 mg/kg bw/day

Species: rat, male and female

Application Route: Oral

Dose Levels: 0 - 40 - 80 - 120 mg/kg body weight/day

Frequency of treatment: daily

Method: OECD Test Guideline 414

3-Trimethoxysilylpropane-1-thiol

No data available.

2-hydroxyethyl acrylate

NOAEL (maternal): 0.0241 mg/l

NOAEL (developmental toxicity): 0.0482 mg/l

Species: rat

Dose Levels: 0 - 4,8 - 24,1 - 48,2 µg/l

Test substance: vapour

**Genotoxicity in vitro**

Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate

Test type: Ames test

Metabolic activation: with/without

Result: negative

Method: OECD Test Guideline 471

Test type: In vitro mammalian cell gene mutation test

Metabolic activation: with/without

Result: negative

Method: OECD Test Guideline 476

2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one

Test type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with/without

Result: negative

Method: OECD Test Guideline 471

Test type: Chromosome aberration test in vitro

Test system: Chinese hamster V79 cell line

Metabolic activation: with/without

Result: negative

Method: OECD Test Guideline 473

Test type: In vitro mammalian cell gene mutation test  
 Test system: mouse lymphoma cells  
 Metabolic activation: with/without  
 Result: negative  
 Method: OECD Test Guideline 476

3-Trimethoxysilylpropane-1-thiol  
 Test type: Ames test  
 Test system: Salmonella typhimurium  
 Metabolic activation: with/without  
 Result: negative  
 Method: OECD Test Guideline 471

Test type: Ames test  
 Test system: Escherichia coli  
 Metabolic activation: with/without  
 Result: negative  
 Method: OECD Test Guideline 471

Test type: In vitro mammalian cell gene mutation test  
 Test system: Mouse lymphoma cells  
 Metabolic activation: with/without  
 Result: negative  
 Method: OECD Test Guideline 490

Test type: Chromosome aberration test in vitro  
 Test system: Chinese hamster V79 cell line  
 Metabolic activation: with/without  
 Result: negative  
 Method: OECD Test Guideline 473

2-hydroxyethyl acrylate  
 Test type: Salmonella/microsome test (Ames test)  
 Test system: Salmonella typhimurium  
 Metabolic activation: with/without  
 Result: negative

Test type: Micronucleus test  
 Test system: Mouse lymphoma cells  
 Metabolic activation: without  
 Result: positive

#### **Genotoxicity in vivo**

Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate  
 Test type: In vivo micronucleus test  
 Species: Mouse, male  
 Application Route: Oral  
 Result: negative  
 Method: OECD Test Guideline 474

2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one  
 Test type: In vivo micronucleus test  
 Species: Chinese hamster, male/female  
 Application Route: Oral  
 Result: negative

3-Trimethoxysilylpropane-1-thiol  
 No data available.

2-hydroxyethyl acrylate  
 Test type: Micronucleus test  
 Species: Mouse  
 Result: negative  
 Method: OECD Test Guideline 474  
 Toxicological studies of a comparable product.

#### **STOT evaluation – one-time exposure**

Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate  
Based on available data, the classification criteria are not met.

2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one  
Based on available data, the classification criteria are not met.

3-Trimethoxysilylpropane-1-thiol  
Based on available data, the classification criteria are not met.

2-hydroxyethyl acrylate  
Based on available data, the classification criteria are not met.

#### **STOT evaluation – repeated exposure**

Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate  
Based on available data, the classification criteria are not met.

2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one  
Based on available data, the classification criteria are not met.

2,2-dimethoxy-1,2-diphenylethan-1-one  
May cause damage to organs through prolonged or repeated exposure.

3-Trimethoxysilylpropane-1-thiol  
No data available.

2-hydroxyethyl acrylate  
Based on available data, the classification criteria are not met.

#### **Aspiration toxicity**

Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate  
Based on available data, the classification criteria are not met.

2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one  
Based on available data, the classification criteria are not met.

3-Trimethoxysilylpropane-1-thiol  
Based on available data, the classification criteria are not met.

2-hydroxyethyl acrylate  
Based on available data, the classification criteria are not met.

#### **CMR Assessment**

Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate  
Carcinogenicity: No data available.

Mutagenicity: Based on available data, the classification criteria are not met.

Teratogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity/Fertility: Based on available data, the classification criteria are not met.

2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one

Carcinogenicity: No data available.

Mutagenicity: Based on available data, the classification criteria are not met.

Teratogenicity: May damage the unborn child (Repr. 1B).

Reproductive toxicity/Fertility: May damage fertility (Repr. 1B).

3-Trimethoxysilylpropane-1-thiol

Carcinogenicity: No data available.

Mutagenicity: Based on available data, the classification criteria are not met.

Teratogenicity: No data available.

Reproductive toxicity/Fertility: No data available.

2-hydroxyethyl acrylate

Carcinogenicity: Based on available data, the classification criteria are not met.

Mutagenicity: Based on available data, the classification criteria are not met.

Teratogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity/Fertility: Based on available data, the classification criteria are not met.

#### **Toxicology Assessment**

**N,N-dimethylacrylamide**

Acute effects: Causes serious eye damage.

**Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate**

Acute effects: Based on available data, the classification criteria are not met.

Sensitization: May cause an allergic skin reaction.

**2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one**

Acute effects: Harmful if swallowed.

Sensitization: Based on available data, the classification criteria are not met.

**3-Trimethoxysilylpropane-1-thiol**

Acute effects: Harmful if swallowed.

Sensitization: May cause an allergic skin reaction.

**11.2 Information on other hazards****Endocrine disrupting properties**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**SECTION 12: Ecological information****12.1 Toxicity****Acute Fish toxicity**

Bisphenol A-epichlorohydrin copolymer acrylate laurate

LC50 4.2 mg/l

Species: Fish

Exposure duration: 48 h

Method: OECD Test Guideline 203

**N,N-dimethylacrylamide**

LC50 &gt; 120 mg/l

Species: Fish

Exposure duration: 96 h

Method: OECD Test Guideline 203

**Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate**

LC50 &gt; 0.082 mg/l

Species: Cyprinus carpio (Carp)

Exposure duration: 96 h

Method: ISO 7346/1

No toxic effects in the water-soluble range.

**2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one**

LC50 9 mg/l

Species: Danio rerio (zebra fish)

Exposure duration: 96 h

Method: OECD Test Guideline 203

**2,2-dimethoxy-1,2-diphenylethan-1-one**

LC50 29.67 mg/l

Species: Fish

Exposure duration: 96 h

Method: QSAR

**3-Trimethoxysilylpropane-1-thiol**

LC50 439 mg/l

Species: Danio rerio (zebra fish)

Exposure duration: 96 h

Method: Regulation (EC) No. 440/2008, Annex, C.1

2-hydroxyethyl acrylate

LC50 4.8 mg/l

Test type: Fresh water study

Species: Pimephales promelas (fathead minnow)

Exposure duration: 96 h

**Chronic Fish toxicity**

Bisphenol A-epichlorohydrin copolymer acrylate laurate

No data available.

N,N-dimethylacrylamide

No data available.

Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate

EC10 0.43 mg/l

Species: Pimephales promelas (fathead minnow)

Exposure duration: 33 d

Method: OECD Test Guideline 210

2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one

No data available.

2,2-dimethoxy-1,2-diphenylethan-1-one

No data available.

3-Trimethoxysilylpropane-1-thiol

No data available.

2-hydroxyethyl acrylate

No data available.

**Acute toxicity for daphnia**

Bisphenol A-epichlorohydrin copolymer acrylate laurate

No data available.

N,N-dimethylacrylamide

EC50 &gt; 120 mg/l

Species: Daphnia (water flea)

Exposure duration: 48 h

Method: OECD Test Guideline 202

Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate

EL50 &gt; 100 mg/l

Species: Daphnia magna (Water flea)

Exposure duration: 48 h

Method: OECD Test Guideline 202

2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one

EC50 15.3 mg/l

Species: Daphnia magna (Water flea)

Exposure duration: 24 h

Method: OECD Test Guideline 202

2,2-dimethoxy-1,2-diphenylethan-1-one

LC50 18.387 mg/l

Species: Daphnia (water flea)

Exposure duration: 48 h

Method: QSAR

3-Trimethoxysilylpropane-1-thiol

EC50 6.7 mg/l

Species: Daphnia magna (Water flea)

Exposure duration: 48 h

Method: Regulation (EC) No. 440/2008, Annex, C.2

2-hydroxyethyl acrylate

EC50 9.3 mg/l

Species: Daphnia magna (Water flea)

Exposure duration: 48 h

Method: OECD Test Guideline 202

**Chronic toxicity to daphnia**

Bisphenol A-epichlorohydrin copolymer acrylate laurate

No data available.

N,N-dimethylacrylamide

No data available.

Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate  
EC10 > 0.51 mg/l

Species: Daphnia magna (Water flea)

Exposure duration: 21 d

Method: OECD Test Guideline 211

2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one

NOEC 1 mg/l

Species: Daphnia magna (Water flea)

Exposure duration: 21 d

Method: OECD Test Guideline 211

2,2-dimethoxy-1,2-diphenylethan-1-one

No data available.

3-Trimethoxysilylpropane-1-thiol

No data available.

2-hydroxyethyl acrylate

NOEC (Reproduction) 0.48 mg/l

Species: Daphnia magna (Water flea)

Exposure duration: 21 d

Method: OECD Test Guideline 211

**Acute toxicity for algae**

Bisphenol A-epichlorohydrin copolymer acrylate laurate

No data available.

N,N-dimethylacrylamide

EC50 > 400 mg/l

Species: algae

Exposure duration: 96 h

Method: OECD Test Guideline 201

Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate

EL50 105 mg/l

Species: Pseudokirchneriella subcapitata (green algae)

Exposure duration: 72 h

Method: OECD Test Guideline 201

2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one

EC50 1.6 mg/l

Species: Desmodesmus subspicatus (Green algae)

Exposure duration: 72 h

Method: OECD Test Guideline 201

NOEC 0.86 mg/l

Species: Desmodesmus subspicatus (Green algae)

Exposure duration: 72 h

Method: OECD Test Guideline 201

2,2-dimethoxy-1,2-diphenylethan-1-one

EC50 19.666 mg/l

Species: algae

Exposure duration: 96 h

*fiber  
optic  
center*

3-Trimethoxysilylpropane-1-thiol  
 NOEC 40 mg/l  
 endpoint: Growth inhibition  
 Species: *Desmodesmus subspicatus* (Green algae)  
 Exposure duration: 72 h  
 Method: Regulation (EC) No. 440/2008, Annex, C.3

EC50 931 mg/l  
 endpoint: Growth inhibition  
 Species: *Desmodesmus subspicatus* (Green algae)  
 Exposure duration: 72 h  
 Method: Regulation (EC) No. 440/2008, Annex, C.3

2-hydroxyethyl acrylate  
 EC50 6 mg/l  
 Test type: Fresh water study  
 Species: *Pseudokirchneriella subcapitata* (green algae)  
 Exposure duration: 72 h  
 Method: OECD Test Guideline 201

NOEC 1 mg/l  
 Test type: Fresh water study  
 Species: *Pseudokirchneriella subcapitata* (green algae)  
 Exposure duration: 72 h  
 Method: OECD Test Guideline 201

**Acute bacterial toxicity**  
 Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate  
 EC50 > 1,000 mg/l  
 Species: activated sludge  
 Exposure duration: 3 h  
 Method: OECD Test Guideline 209

2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one  
 EC50 > 100 mg/l  
 Species: activated sludge  
 Exposure duration: 3 h

EC50 > 100 mg/l  
 Species: activated sludge  
 Exposure duration: 3 h

3-Trimethoxysilylpropane-1-thiol  
 EC50 463 mg/l  
 Species: activated sludge

2-hydroxyethyl acrylate  
 EC10 > 100 mg/l  
 Species: Sewage sludge  
 Exposure duration: 72 h

**Ecotoxicology Assessment**  
 Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate  
 Acute aquatic toxicity: Based on available data, the classification criteria are not met.  
 Chronic aquatic toxicity: Toxic to aquatic life with long lasting effects.

2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one  
 Acute aquatic toxicity: Based on available data, the classification criteria are not met.  
 Chronic aquatic toxicity: Toxic to aquatic life with long lasting effects.

2,2-dimethoxy-1,2-diphenylethan-1-one  
 Chronic aquatic toxicity: Harmful to aquatic life with long lasting effects.

3-Trimethoxysilylpropane-1-thiol  
 Acute aquatic toxicity: Based on available data, the classification criteria are not met.  
 Chronic aquatic toxicity: Toxic to aquatic life with long lasting effects.

**2-hydroxyethyl acrylate**

Acute aquatic toxicity: Very toxic to aquatic life.

Chronic aquatic toxicity: Harmful to aquatic life with long lasting effects.

Impact on Sewage Treatment: Because of the low bacterial toxicity, there is no risk of an adverse effect on the performance of biological waste water treatment plants.

**M-Factor**

2-hydroxyethyl acrylate

M-factor (acute aquat. tox.): 1

**12.2 Persistence and degradability****Biodegradability**

Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate

Biodegradation: 42 %, 28 d, i.e. not readily biodegradable (10 day time window criterion is not met)

Method: OECD Test Guideline 301 F

## 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one

Test type: aerobic

Inoculum: activated sludge

Biodegradation: &lt;= 1 %, 28 d, i.e. not readily degradable

Method: OECD Test Guideline 301 B

## 3-Trimethoxysilylpropane-1-thiol

Test type: aerobic

Inoculum: activated sludge

Biodegradation: 51 %, 28 d, i.e. not readily degradable

Method: Regulation (EC) No. 440/2008, Annex, C.4-A

## 2-hydroxyethyl acrylate

Biodegradation: 79 %, 28 d, i.e. readily biodegradable

Method: OECD Test Guideline 301 B

**12.3 Bioaccumulative potential****Bioaccumulation**

Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate

Method: OECD Test Guideline 305

An accumulation in aquatic organisms is not to be expected.

## 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one

Bioconcentration factor (BCF): &lt; 10

Species: Oryzias latipes (Orange-red killifish)

Exposure duration: 56 d

## 3-Trimethoxysilylpropane-1-thiol

no data available

**Partition coefficient (n-octanol/water)**

N,N-dimethylacrylamide

log Pow: -0.3

2,2-dimethoxy-1,2-diphenylethan-1-one

log Pow: 3.42

2-hydroxyethyl acrylate

log Pow: 0.21

**12.4 Mobility in soil**

No data available.

**12.5 Results of PBT and vPvB assessment**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6 Endocrine disrupting properties**

The substance/mixture does not contain components considered to have endocrine disrupting properties

according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

No data available.

## SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. Reference number 2008/98/EC

Dispose in accordance with applicable international, national and local laws, ordinances and statutes. For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used. The classification of the product may meet the criteria for a hazardous waste. Offer surplus and non-recyclable solutions to a licensed disposal company. Do not dispose of waste into sewer.

### 13.1 Waste treatment methods

After containers have been emptied as thoroughly as possible (e.g. by pouring, scraping or draining until "drip-dry"), they can be sent to an appropriate collection point set up within the framework of the existing take-back scheme of the chemical industry. Empty containers retain residue and can be dangerous. Containers must be recycled in compliance with national legislation and environmental regulations. Dispose of empty containers and wastes safely. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Where possible recycling is preferred to disposal or incineration.

No disposal into waste water.

## SECTION 14: Transport information

### ADR/RID

14.1 UN number or ID number	:	Not dangerous goods
14.2 UN proper shipping name	:	Not dangerous goods
14.3 Transport hazard class(es)	:	Not dangerous goods
14.4 Packing group	:	Not dangerous goods
14.5 Environmental hazards	:	Not dangerous goods

### ADN

14.1 UN number or ID number	:	Not dangerous goods
14.2 UN proper shipping name	:	Not dangerous goods
14.3 Transport hazard class(es)	:	Not dangerous goods
14.4 Packing group	:	Not dangerous goods
14.5 Environmental hazards	:	Not dangerous goods

Dangerous goods classification for inland waterways tanker by request only.

### IATA

14.1 UN number or ID number	:	Not dangerous goods
14.2 UN proper shipping name	:	Not dangerous goods
14.3 Transport hazard class(es)	:	Not dangerous goods
14.4 Packing group	:	Not dangerous goods
14.5 Environmental hazards	:	Not dangerous goods

### IMDG

14.1 UN number or ID number	:	Not dangerous goods
14.2 UN proper shipping name	:	Not dangerous goods
14.3 Transport hazard class(es)	:	Not dangerous goods
14.4 Packing group	:	Not dangerous goods
14.5 Environmental hazards	:	Not dangerous goods

### 14.6 Special precautions for user

See section 6 - 8.

Additional information : Not dangerous cargo. Keep separated from foodstuffs.

**14.7 Maritime transport in bulk according to IMO instruments**

Product is not transported by us in bulk.

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Candidate List of Substances of Very High Concern for Authorisation**

This product contains substances identified as SVHC according to REACH Regulation (EC) no. 1907/2006, Article 59. Please refer to section 3.

**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances.**  
not applicable**REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)**

Conditions of restriction for the following entries should be considered: 3, 30

This product contains substances subject to EU Regulation 1907/2006 (REACH), Annex XVII.

2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one

CAS-No.: 71868-10-5, EC-No.: 400-600-6

Subject to REACH Annex XVII, No. 30

**Water contaminating class (Germany)**

3 highly water endangering

Classification according to AwSV, Annex 1 (5.2)

**Other regulations**

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

**15.2 Chemical Safety Assessment****A Chemical Safety Assessment has been carried out for:**

2-hydroxyethyl acrylate

**SECTION 16: Other information****Full text of the hazard statements of the CLP classification (1272/2008/CE) referred to under sections 2, 3 and 10.**

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic 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.
H335	May cause respiratory irritation.
H360FD	May damage fertility. May damage the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure if swallowed.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

**Abbreviations and acronyms**

ADN	Accord européen relatif au transport international des marchandises Dangereuses par voie de Navigation intérieure
ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route
ANSI	American National Standards Institute
ASTM	American Society of Testing and Materials (US)
ATE	Acute Toxic Estimate
AwSv	Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen
BCF	Bioconcentration Factor
CAS	Chemical Abstract Service
CLP	Regulation on Classification, Labelling and Packaging of Substances and Mixtures
CMR	Cancerogenic Mutagenic Reprotoxic
DIN	Deutsches Institut für Normung
DNEL	Derived No-Effect Level
EC...	Effect Concentration ... %
EWC	European Waste Catalogue
IATA	International Air Transport Association
IBC	Intermediate Bulk Container
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LOAEL	Lowest Observable Adverse Effect Level
LC...	Lethal Concentration, ...%
LD...	Lethal Dose, ...%
MARPOL	International Convention for the Prevention of Pollution From Ships
NOAEL	No Observed Adverse Effect Level
NOEL/NOEC	No Observed Effect Level/Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	persistent, bioaccumulative, toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire de marchandises Dangereuses
STOT	Specific Target Organ Toxicity
TRGS	Technische Regeln für Gefahrstoffe
vPvB	very Persistent, very Bioaccumulative
WGK	Wassergefährdungsklasse

Relevant changes since the last version are highlighted in the margin. This version replaces all previous versions.

**Further information**

Classification of the mixture:

Classification procedure:

Skin Irrit. 2 H315

Calculation method

Eye Dam. 1 H318

Calculation method

Skin Sens. 1 H317

Calculation method

Repr. 1B H360FD

Calculation method

Aquatic Chronic 3 H412

Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

Contact the professionals at Fiber Optic Center for a quote or to get more details.

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