

SAFETY DATA SHEET (SDS)



Manufacturer:
Covestro

Product Name:
Covestro Cablelite® 950-706 Optical Fiber Coating (Matrix Coating), UV Cure (10 kg).

Manufacturer Part Number:
COV-950-706-10KG

▶ Click here for more details on the Covestro Cablelite® 950-706 Optical Fiber Coating (Matrix Coating), UV Cure (10 kg).

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



Cablelite 950-706

Version 2.0

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

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

1.1 Product identifier

CABLELITE 950-706

Material number: 50025028

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

Use:

UV-curable coatings, inks and matrix materials.

For details of the identified uses according to REACH-Regulation (EU) No. 1907/2006 refer to the annex of this safety data sheet.

1.3 Details of the supplier of the safety data sheet

Covestro Deutschland AG
COV Global Product Safety
51365 Leverkusen

Tel.: +49 214 6009 8134
Email: 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)

Eye irritation, Category 2 (H319)

Sensitization of the skin, Category 1 (H317)

Reproductive toxicity, Category 1B (H360Fd)

Specific target organ toxicity (single exposure), Category 3 (H335 (Respiratory system))

Chronically hazardous to the aquatic environment, Category 2 (H411)

2.2 Label elements



Hazardous components which must be listed on the label

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

exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate

hexamethylene diacrylate

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

Hazard statements:

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.
 H360Fd May damage fertility. Suspected of damaging the unborn child.
 H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P201 Obtain special instructions before use.
 P261 Avoid breathing mist or vapours.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
 P308 + P313 IF exposed or concerned: Get medical advice/ attention.
 P391 Collect spillage.

2.3 Other hazards

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

optical fiber coatings

Hazardous components

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

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

EC-No.: 500-130-2

REACH Registration Number: 01-2119490020-53-0014, 01-2119490020-53-0007

CAS-No.: 55818-57-0

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

2-phenoxyethyl acrylate

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

EC-No.: 256-360-6

REACH Registration Number: 01-2119980532-35-0014, 01-2119980532-35-0013

Classification (1272/2008/CE): Skin Sens. 1A H317 Repr. 2 H361d Aquatic Chronic 2 H411

exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate

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

Index-No.: 607-133-00-9

EC-No.: 227-561-6

REACH Registration Number: 01-2119957862-25

CAS-No.: 5888-33-5

Classification (1272/2008/CE): Skin Sens. 1A H317 Aquatic Acute 1 H400 Aquatic Chronic 1 H410

Specific threshold concentration (GHS):

STOT SE 3 H335 **>= 10 %**

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

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

hexamethylene diacrylate

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

Index-No.: 607-109-00-8

EC-No.: 235-921-9

REACH Registration Number: 01-2119484737-22-0025, 01-2119484737-22-0008

CAS-No.: 13048-33-4

Classification (1272/2008/CE): Skin Irrit. 2 H315 Eye Irrit. 2 H319 Skin Sens. 1 H317 Aquatic Acute 1 H400

Aquatic Chronic 2 H411

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

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate

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

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Index-No.: 607-249-00-X

EC-No.: 256-032-2

REACH Registration Number: 01-2119484613-34-0018, 01-2119484613-34-0008

CAS-No.: 42978-66-5

Classification (1272/2008/CE): Skin Irrit. 2 H315 Eye Irrit. 2 H319 Skin Sens. 1 H317 STOT SE 3 H335 (Respiratory system) Aquatic Chronic 2 H411

Specific threshold concentration (GHS):

STOT SE 3 H335

>= 10 %

Hydroxycyclohexyl phenyl ketone

Concentration [wt.-%]: >= 1 - < 2,5

EC-No.: 213-426-9

CAS-No.: 947-19-3

Classification (1272/2008/CE): Aquatic Chronic 3 H412

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

Concentration [wt.-%]: >= 0,3 - < 1

EC-No.: 278-355-8

CAS-No.: 75980-60-8

Classification (1272/2008/CE): Skin Sens. 1B H317 Repr. 1B H360Fd Aquatic Chronic 2 H411

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).

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

CAS-No.: 75980-60-8

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. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

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. Wear a positive-pressure supplied-air respirator with full facepiece. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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

General conditions of use are further specified in the annex according to REACH-Regulation (EU) No. 1907/2006.

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.

Storage class (TRGS 510) : **6.1C: Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects**

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

Risk management measures are further specified in the annex according to REACH-Regulation (EU) No. 1907/2006.

8.1 Control parameters

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL)

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

Value type	Route of exposure	Health Effects	Value	Remarks
Workers	Inhalation	Long-term systemic effects	1,17 mg/m ³	Repeated dose toxicity oral

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Workers	Inhalation	Acute systemic effects		No hazard identified Most sensitive endpoint: Acute toxicity (By inhalation)
Workers	Inhalation	Long-term local effects		No hazard identified Most sensitive endpoint: Repeated dose toxicity
Workers	Inhalation	Acute local effects		No hazard identified Most sensitive endpoint: Acute toxicity
Workers	Dermal	Long-term systemic effects	33 mg/kg bw/day	Most sensitive endpoint: Repeated dose toxicity oral
Workers	Dermal	Acute systemic effects		No hazard identified
Workers	Dermal	Long-term local effects		Medium hazard (no threshold derived) Most sensitive endpoint: Sensitisation (skin)
Workers	Dermal	Acute local effects		No hazard identified Most sensitive endpoint: skin irritation/corrosion
Workers	Eye contact	Local effects		No hazard identified
Consumers	Inhalation	Long-term systemic effects		No hazard identified
Consumers	Inhalation	Acute systemic effects		No hazard identified
Consumers	Inhalation	Long-term local effects		No hazard identified
Consumers	Inhalation	Acute local effects		No hazard identified
Consumers	Dermal	Long-term systemic effects		No hazard identified
Consumers	Dermal	Acute systemic effects		No hazard identified
Consumers	Dermal	Long-term local effects		No hazard identified
Consumers	Dermal	Acute local effects		No hazard identified
Consumers	Oral	Long-term systemic effects		No hazard identified
Consumers	Oral	Acute systemic effects		No hazard identified
Consumers	Eye contact	Local effects		No hazard identified

2-phenoxyethyl acrylate

Value type	Route of exposure	Health Effects	Value	Remarks
Workers	Inhalation	Long-term systemic effects	12 mg/m3	Most sensitive endpoint: Repeated dose toxicity
Workers	Inhalation	Acute systemic effects		Hazard unknown (no further information necessary)
Workers	Inhalation	Long-term local effects	77 mg/m3	Most sensitive endpoint: Repeated dose toxicity
Workers	Inhalation	Acute local effects		Hazard unknown (no further information necessary)
Workers	Dermal	Long-term systemic effects	3,5 mg/kg bw/day	Most sensitive endpoint: Repeated dose toxicity
Workers	Dermal	Acute systemic effects		No hazard identified

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Workers	Dermal	Long-term local effects		No hazard identified
Workers	Dermal	Acute local effects		High hazard (no threshold derived)
Workers	Eye contact	Local effects		No hazard identified
Consumers	Inhalation	Long-term systemic effects		No hazard identified
Consumers	Inhalation	Acute systemic effects		No hazard identified
Consumers	Inhalation	Long-term local effects		No hazard identified
Consumers	Inhalation	Acute local effects		No hazard identified
Consumers	Dermal	Long-term systemic effects		No hazard identified
Consumers	Dermal	Acute systemic effects		No hazard identified
Consumers	Dermal	Long-term local effects		No hazard identified
Consumers	Dermal	Acute local effects		No hazard identified
Consumers	Oral	Long-term systemic effects		No hazard identified
Consumers	Oral	Acute systemic effects		No hazard identified
Consumers	Eye contact	Local effects		No hazard identified

exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate

Value type	Route of exposure	Health Effects	Value	Remarks
Workers	Dermal	Long-term systemic effects	1,39 mg/kg bw/day	
Consumers	Dermal	Long-term systemic effects	0,83 mg/kg bw/day	
Consumers	Oral	Long-term systemic effects	0,83 mg/kg bw/day	

hexamethylene diacrylate

Value type	Route of exposure	Health Effects	Value	Remarks
Workers	Inhalation	Long-term systemic effects	24,5 mg/m3	
Workers	Inhalation	Acute systemic effects		No hazard identified
Workers	Inhalation	Long-term local effects		Low hazard (no threshold derived)
Workers	Inhalation	Acute local effects		Low hazard (no threshold derived)
Workers	Dermal	Long-term systemic effects	2,77 mg/kg bw/day	Repeated dose toxicity dermal
Workers	Dermal	Acute systemic effects		No hazard identified (no threshold derived)
Workers	Dermal	Long-term local effects		Medium hazard (no threshold derived)
Workers	Dermal	Acute local effects		Medium hazard (no threshold derived)

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Workers	Eye contact	Local effects		Low hazard (no threshold derived)
Consumers	Inhalation	Long-term systemic effects	7,2 mg/m3	Repeated dose toxicity oral
Consumers	Inhalation	Acute systemic effects		No hazard identified
Consumers	Inhalation	Long-term local effects		Medium hazard (no threshold derived)
Consumers	Inhalation	Acute local effects		Medium hazard (no threshold derived)
Consumers	Dermal	Long-term systemic effects	1,66 mg/kg bw/day	Repeated dose toxicity dermal
Consumers	Dermal	Acute systemic effects		No hazard identified
Consumers	Dermal	Long-term local effects		Medium hazard (no threshold derived)
Consumers	Dermal	Acute local effects		Medium hazard (no threshold derived)
Consumers	Oral	Long-term systemic effects	2,1 mg/kg bw/day	Repeated dose toxicity oral
Consumers	Oral	Acute systemic effects		No hazard identified
Consumers	Eye contact	Local effects		Low hazard (no threshold derived)

Hydroxycyclohexyl phenyl ketone

Value type	Route of exposure	Health Effects	Value	Remarks
Workers	Inhalation	Long-term systemic effects	6,8 mg/m3	
Workers	Inhalation	Acute systemic effects		No hazard identified
Workers	Inhalation	Long-term local effects		No hazard identified
Workers	Inhalation	Acute local effects		No hazard identified
Workers	Dermal	Long-term systemic effects	1,94 mg/kg bw/day	
Workers	Dermal	Acute systemic effects		No hazard identified
Workers	Dermal	Long-term local effects		No hazard identified
Workers	Dermal	Acute local effects		No hazard identified
Workers	Eye contact	Local effects		No hazard identified
Consumers	Inhalation	Long-term systemic effects	1,21 mg/m3	
Consumers	Inhalation	Acute systemic effects		No hazard identified
Consumers	Inhalation	Long-term local effects		No hazard identified
Consumers	Inhalation	Acute local effects		No hazard identified
Consumers	Dermal	Long-term systemic effects	0,694 mg/kg bw/day	
Consumers	Dermal	Acute systemic effects		No hazard identified

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Consumers	Dermal	Long-term local effects		No hazard identified
Consumers	Dermal	Acute local effects		No hazard identified
Consumers	Oral	Long-term systemic effects	0,694 mg/kg bw/day	
Consumers	Oral	Acute systemic effects		No hazard identified
Consumers	Eye contact	Local effects		No hazard identified

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

Value type	Route of exposure	Health Effects	Value	Remarks
Workers	Inhalation	Long-term systemic effects	0,822 mg/m3	Most sensitive endpoint: Repeated dose toxicity oral
Workers	Inhalation	Acute systemic effects		No hazard identified
Workers	Inhalation	Long-term local effects		No hazard identified
Workers	Inhalation	Acute local effects		No hazard identified
Workers	Dermal	Long-term systemic effects	0,233 mg/kg bw/day	Most sensitive endpoint: Repeated dose toxicity oral
Workers	Dermal	Acute systemic effects		No hazard identified
Workers	Dermal	Long-term local effects		Medium hazard (no threshold derived) Most sensitive endpoint: Sensitisation (skin)
Workers	Dermal	Acute local effects		Medium hazard (no threshold derived) Most sensitive endpoint: Sensitisation (skin)
Workers	Eye contact	Local effects		No hazard identified
Consumers	Inhalation	Long-term systemic effects	0,145 mg/m3	Most sensitive endpoint: Repeated dose toxicity oral
Consumers	Inhalation	Acute systemic effects		No hazard identified
Consumers	Inhalation	Long-term local effects		No hazard identified
Consumers	Inhalation	Acute local effects		No hazard identified
Consumers	Dermal	Long-term systemic effects	0,0833 mg/kg bw/day	Most sensitive endpoint: Repeated dose toxicity oral
Consumers	Dermal	Acute systemic effects		No hazard identified
Consumers	Dermal	Long-term local effects		Medium hazard (no threshold derived) Most sensitive endpoint: Sensitisation (skin)
Consumers	Dermal	Acute local effects		Medium hazard (no threshold derived) Most sensitive endpoint: Sensitisation (skin)
Consumers	Oral	Long-term systemic effects	0,0833 mg/kg bw/day	Most sensitive endpoint: Repeated dose toxicity oral
Consumers	Oral	Acute systemic effects		No hazard identified
Consumers	Eye contact	Local effects		No hazard identified

Predicted No Effect Concentration (PNEC)**Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate**

Compartment	Value	Remarks
Fresh water	0,025 mg/l	
Fresh water sediment	8,96 mg/kg dry weight	
Marine water	0,003 mg/l	
Marine sediment	0,896 mg/kg dry weight	
Sewage treatment plant	10 mg/l	
Air		No hazard identified
Soil	1,78 mg/kg dry weight	
Oral		Does not bioaccumulate.

2-phenoxyethyl acrylate

Compartment	Value	Remarks
Fresh water	0,002 mg/l	
Fresh water sediment	0,02 mg/kg dry weight	
Marine water	0,0002 mg/l	
Marine sediment	0,002 mg/kg dry weight	
Sewage treatment plant	1,77 mg/l	
Air		No hazard identified
Soil	0,006 mg/kg dry weight	
Oral		Does not bioaccumulate.
Intermittent use/release	0,012 mg/l	Fresh water

exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate

Compartment	Value	Remarks
Fresh water	0,00092 mg/l	
Fresh water sediment	0,145 mg/kg dry weight	
Marine water	0,000092 mg/l	
Marine sediment	0,0145 mg/kg dry weight	
Sewage treatment plant	2 mg/l	
Soil	0,0285 mg/kg dry weight	
Intermittent use/release	0,007 mg/l	

hexamethylene diacrylate

Compartment	Value	Remarks
Fresh water	0,007 mg/l	
Fresh water sediment	0,493 mg/kg dry weight	
Marine water	0,001 mg/l	
Marine sediment	0,049 mg/kg dry weight	
Sewage treatment plant	2,7 mg/l	
Air		No hazard identified
Soil	0,094 mg/kg dry weight	
Oral		Does not bioaccumulate.

Hydroxycyclohexyl phenyl ketone

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Compartment	Value	Remarks
Fresh water	0,003 mg/l	
Fresh water sediment	0,0356 mg/kg dry weight	
Marine water	0,0003 mg/l	
Marine sediment	0,00356 mg/kg dry weight	
Sewage treatment plant	10 mg/l	
Air		No hazard identified
Soil	0,00537 mg/kg dry weight	
Oral		Does not bioaccumulate.
Intermittent use/release	0,144 mg/l	Fresh water
Intermittent use/release	0,0144 mg/l	Marine water

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

Compartment	Value	Remarks
Fresh water	1,4 µg/l	
Fresh water sediment	0,115 mg/kg dry weight	
Marine water	0,14 µg/l	
Marine sediment	0,0115 mg/kg dry weight	
Sewage treatment plant		No hazard identified
Air		No hazard identified
Soil	0,0222 mg/kg dry weight	
Oral		Does not bioaccumulate.
Intermittent use/release	14 µg/l	Fresh water

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

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
Appearance:	liquid
Colour:	amber
Odour:	characteristic
Odour Threshold:	not established
pH:	not applicable
Melting point/freezing point:	not established
Boiling point/boiling range:	not established
Flash point:	> 93 °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:	1,05 g/cm³ at 20 °C
Miscibility with water:	not established
Water solubility:	not established
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:	3.990 - 5.750 mPa.s at 20 °C
Viscosity, kinematic:	> 20,5 mm²/s at 40 °C
	> 3800 mm²/s at 20 °C

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

Toxicological studies on the product are not yet available.

Please find below the toxicological data available to us for the components (hazardous components).

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

Acute toxicity, oral

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-phenoxyethyl acrylate

LD50 rat, male/female: > 5.000 mg/kg
Method: OECD Test Guideline 401

exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate

LD50 rat, male: 4.350 mg/kg

hexamethylene diacrylate

LD50 rat: > 5.000 mg/kg
Method: OECD Test Guideline 401

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate

LD50 rat, female: > 2.000 mg/kg
Method: OECD Test Guideline 423

Hydroxycyclohexyl phenyl ketone

LD50 rat, male/female: > 2.500 mg/kg
Method: OECD Test Guideline 401

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

LD50 rat, male/female: > 5.000 mg/kg
Method: OECD Test Guideline 401

Acute toxicity, dermal

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-phenoxyethyl acrylate

LD50 rat, male/female: > 2.000 mg/kg
Method: Regulation (EC) No. 440/2008, Annex, B.3

exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate

LD50 rabbit, male: > 3.000 mg/kg

hexamethylene diacrylate

LD50 rabbit: 3.650 mg/kg
Method: OECD Test Guideline 402

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate
 LD50 rabbit, male/female: > 2.000 mg/kg
 Method: OECD Test Guideline 402

Hydroxycyclohexyl phenyl ketone
 LD50 rat: > 5.000 mg/kg
 Method: OECD Test Guideline 402

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide
 LD50 rat, male/female: > 2.000 mg/kg
 Method: OECD Test Guideline 402

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

2-phenoxyethyl acrylate
 Assessment: Study scientifically not justified.

exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate
 No data available, supplier information

hexamethylene diacrylate
 LC0 rat, male/female: > 0,41 mg/l, 7 h
 Test atmosphere: vapour
 Assessment: The substance or mixture has no acute inhalation toxicity

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate
 Inhalation risk test (IRT): No mortality after 8 h exposure in studies with rats.

Hydroxycyclohexyl phenyl ketone
 LC50 rat, male/female: > 1 mg/l
 Test atmosphere: dust/mist
 Assessment: The substance or mixture has no acute inhalation toxicity
 Method: OECD Test Guideline 403

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide
 No data available.

Primary 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-phenoxyethyl acrylate
 Species: rabbit
 Result: slight irritant
 Classification: No skin irritation

exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate
 Species: rabbit
 Result: non-irritant
 Classification: No skin irritation

hexamethylene diacrylate
 Species: rabbit
 Result: irritating
 Classification: Causes skin irritation.

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate
 Species: rabbit
 Result: irritating
 Classification: Causes skin irritation.

Hydroxycyclohexyl phenyl ketone

Species: rabbit

Result: slight irritant

Classification: No skin irritation

Method: OECD Test Guideline 404

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

Species: rabbit

Result: slight irritant

Classification: No skin irritation

Primary mucosae irritation

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-phenoxyethyl acrylate

Species: rabbit

Result: slight irritant

Classification: No eye irritation

exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate

Species: rabbit

Result: slight irritant

Classification: No eye irritation

hexamethylene diacrylate

Species: rabbit

Result: irritating

Classification: Causes serious eye irritation.

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate

Species: rabbit

Result: irritating

Classification: Causes serious eye irritation.

Hydroxycyclohexyl phenyl ketone

Species: rabbit

Result: slight irritant

Classification: No eye irritation

Method: OECD Test Guideline 405

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

Species: rabbit

Result: slight irritant

Classification: No eye irritation

Method: OECD Test Guideline 406

Sensitisation

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-phenoxyethyl acrylate

Skin sensitisation according to Magnusson/Kligmann (maximizing test):

Species: Guinea pig

Result: positive

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

Method: OECD Test Guideline 406

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Respiratory sensitization
No data available.

exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate
Skin sensitization (local lymph node assay (LLNA)):
Species: Mouse
Result: positive
Classification: May cause sensitization by skin contact (Sub cat. 1A)
Method: OECD Test Guideline 429

Respiratory sensitization
No data available.

hexamethylene diacrylate
Skin sensitisation:
Result: positive
Classification: May cause sensitization by skin contact.

Respiratory sensitization
No data available.

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate
Skin sensitization (local lymph node assay (LLNA)):
Species: Mouse
Result: positive
Classification: May cause sensitization by skin contact.
Method: OECD Test Guideline 429

Skin sensitization (local lymph node assay (LLNA)):
Species: Mouse
Result: positive
Method: OECD Test Guideline 429

Respiratory sensitization
no data available

Hydroxycyclohexyl phenyl ketone
Skin sensitisation according to Magnusson/Kligmann (maximizing test):
Species: Guinea pig
Result: negative
Classification: Does not cause skin sensitization.
Method: OECD Test Guideline 406

Respiratory sensitization
No data available.

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide
Skin sensitization (local lymph node assay (LLNA)):
Species: Mouse
Result: positive
Classification: May cause sensitization by skin contact (Sub cat. 1B)
Method: OECD Test Guideline 429

Respiratory sensitization
No data available.

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: 100 - 300 - 1000 mg/kg bw/day
Exposure duration: 92 - 93 d
Frequency of treatment: daily
Method: OECD Test Guideline 408

2-phenoxyethyl acrylate
NOAEL: 300 mg/kg

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Application Route: Oral
 Species: rat, male/female
 Dose Levels: 0 - 100 - 300 - 800
 Method: OECD Test Guideline 422

NOAEL: 350 mg/kg
 Application Route: Oral
 Species: rat, male/female
 Method: OECD Test Guideline 408

exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate
 NOAEL: 100 mg/kg
 Application Route: Oral
 Species: rat, male/female
 Method: OECD Test Guideline 422

hexamethylene diacrylate
 NOAEL: 250 mg/kg
 Application Route: Oral
 Species: rat, male/female
 Dose Levels: 75 - 250 - 750 mg/kg/day
 Method: OECD Test Guideline 422

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate
 NOAEL: 375 mg/kg bw/day
 Application Route: Oral
 Species: rat, male/female
 Frequency of treatment: daily
 Method: OECD Test Guideline 422

NOAEL: 66,7 mg/kg bw/day
 Application Route: Dermal
 Species: rat, male/female
 Frequency of treatment: 5 days/week
 Method: OECD Test Guideline 424

Hydroxycyclohexyl phenyl ketone
 NOAEL: 300 mg/kg
 Application Route: Oral
 Species: rat, male/female
 Dose Levels: 0 - 5 - 50 - 300 mg/kg bw/day
 Exposure duration: 28 d
 Frequency of treatment: daily
 Method: OECD Test Guideline 407

NOAEL: 300 mg/kg
 Application Route: Oral
 Species: rat, male/female
 Dose Levels: 0 - 100 - 300 - 1000 mg/kg bw/day
 Exposure duration: 90 d
 Frequency of treatment: daily
 Method: OECD Test Guideline 408

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide
 NOAEL: 100 mg/kg bw/day
 LOAEL (Lowest observable adverse effect level): 300 mg/kg bw/day
 Application Route: Oral
 Species: rat, male/female
 Dose Levels: 0 - 100 - 300 - 1000 mg/kg bw/day
 Method: OECD Test Guideline 408

NOAEL: 50 mg/kg bw/day
 LOAEL (Lowest observable adverse effect level): 250 mg/kg bw/day
 Application Route: Oral
 Species: rat, male/female
 Dose Levels: 0 - 50 - 250 - 750 mg/kg bw/day

Carcinogenicity

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

2-phenoxyethyl acrylate
No data available.

exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate
No data available.

hexamethylene diacrylate
No data available.

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate
NOAEL (Toxicity): > 25 mg/kg bw/day

Species: Mouse, male
Application Route: Dermal
Frequency of treatment: 2 times/week

Hydroxycyclohexyl phenyl ketone
No data available.

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide
no data available

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-phenoxyethyl acrylate

NOAEL (parents, generelly toxicity): 100 mg/kg bw/day

NOAEL (parents, fertility): 300 mg/kg bw/day

Test type: Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test

Species: rat, male/female

Application Route: Oral

Dose Levels: 0 - 100 - 300 - 800 mg/kg bw/day

Method: OECD Test Guideline 422

exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate

NOAEL - Parents: 100 mg/kg

NOAEL - F1: 100 mg/kg

Test type: Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test

Species: rat, male/female

Application Route: Oral

Dose Levels: 0 - 25 - 100 - 500 mg/kg body weight/day

Frequency of treatment: daily

hexamethylene diacrylate

NOAEL (parents, generelly toxicity): 250 mg/kg

NOAEL (parents, fertility): 750 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

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate
 NOAEL (parents, generelly toxicity): 375 mg/kg bw/day
 NOAEL (offspring): 375 mg/kg bw/day

Species: rat, male/female
 Application Route: Oral
 Frequency of treatment: daily
 Method: OECD Test Guideline 422

NOAEL (parents, generelly toxicity): 100 mg/kg bw/day
 NOAEL (parents, fertility): 100 mg/kg bw/day
 NOAEL (offspring): 100 mg/kg bw/day

Species: rat, male/female
 Application Route: Oral
 Frequency of treatment: daily
 Method: OECD Test Guideline 443

Hydroxycyclohexyl phenyl ketone
 NOAEL (parents, generelly toxicity): 900 mg/kg bw/day
 NOAEL (parents, fertility): 900 mg/kg bw/day

NOAEL (offspring): 900 mg/kg bw/day
 Species: rat, male/female
 Application Route: Oral

Dose Levels: 0 - 100 - 300 - 900 mg/kg bw/day
 Method: OECD Test Guideline 443

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide
 NOAEL (parents, generelly toxicity): 200 mg/kg bw/day
 NOAEL (parents, fertility): 60 mg/kg bw/day

NOAEL (offspring): 200 mg/kg bw/day
 Test type: One-generation study
 Species: rat, male/female
 Application Route: Oral
 Dose Levels: 0 - 60 - 200 - 600 mg/kg bw/day
 Frequency of treatment: daily
 Method: OECD Test Guideline 421

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
 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
 Method: OECD Test Guideline 414

2-phenoxyethyl acrylate
 NOAEL (teratogenicity): 600 mg/kg bw/day
 NOAEL (maternal): 600 mg/kg bw/day
 NOAEL (developmental toxicity): 600 mg/kg bw/day
 Test type: Pre-/postnatal development
 Species: rat
 Application Route: Oral
 Dose Levels: 0 - 65- 200 - 600 mg/kg bw/day
 Method: OECD Test Guideline 414

exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate
 NOAEL (teratogenicity): 500 mg/kg
 NOAEL (maternal): 100 mg/kg
 Test type: Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test

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Species: rat, male/female
 Application Route: Oral
 Dose Levels: 0 - 25 - 100 - 500 mg/kg body weight/day
 Method: OECD Test Guideline 422

hexamethylene diacrylate
 NOAEL (teratogenicity): 750 mg/kg
 NOAEL (maternal): 250 mg/kg
 Species: rat, male and female
 Application Route: Oral
 Dose Levels: 75 - 250 - 750 mg/kg/day
 Method: OECD Test Guideline 422
 Did not show teratogenic effects in animal experiments.

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate
 NOAEL (maternal): > 375 mg/kg bw/day
 NOAEL (developmental toxicity): > 375 mg/kg bw/day
 Test type: Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test
 Species: rat, female
 Application Route: Oral
 Frequency of treatment: daily
 Method: OECD Test Guideline 422

NOAEL (maternal): 450 mg/kg bw/day
 NOAEL (developmental toxicity): 450 mg/kg bw/day
 Test type: Pre-/postnatal development
 Species: rabbit, female
 Application Route: Oral
 Frequency of treatment: daily
 Method: OECD Test Guideline 414

NOAEL (teratogenicity): 250 mg/kg bw/day
 NOAEL (maternal): 250 mg/kg bw/day
 NOAEL (developmental toxicity): 250 mg/kg bw/day
 Test type: Pre-/postnatal development
 Species: rat, female
 Application Route: Oral
 Frequency of treatment: daily
 Method: OECD Test Guideline 414

Hydroxycyclohexyl phenyl ketone
 NOAEL (maternal): 300 mg/kg
 NOAEL (developmental toxicity): 900 mg/kg bw/day
 Test type: Pre-/postnatal development
 Species: rat, female
 Application Route: Oral
 Dose Levels: 0 - 100 - 300 - 900 mg/kg bw/day
 Frequency of treatment: daily
 Method: OECD Test Guideline 414

NOAEL (maternal): 500 mg/kg
 NOAEL (developmental toxicity): 250 mg/kg bw/day
 Test type: Pre-/postnatal development
 Species: rabbit, female
 Application Route: Oral
 Dose Levels: 0 - 250 - 500 - 750 mg/kg bw/day
 Frequency of treatment: daily
 Method: OECD Test Guideline 414

NOAEL (maternal): 900 mg/kg
 NOAEL (developmental toxicity): 900 mg/kg bw/day
 Test type: extended one-generation study
 Species: rat, male/female
 Application Route: Oral
 Dose Levels: 0 - 100 - 300 - 900 mg/kg bw/day
 Frequency of treatment: daily
 Method: OECD Test Guideline 443

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

NOAEL (teratogenicity): 150 mg/kg bw/day

NOAEL (maternal): 150 mg/kg bw/day

LOAEL (teratogenicity): 500 mg/kg bw/day

LOAEL (maternal): 500 mg/kg bw/day

Test type: Pre-/postnatal development

Species: rat, female

Application Route: Oral

Dose Levels: 0 - 50 - 150 - 500 mg/kg bw/day

Method: OECD Test Guideline 414

NOAEL (teratogenicity): >100 mg/kg bw/day

NOAEL (maternal): >100 mg/kg bw/day

LOAEL (developmental toxicity): 100 mg/kg bw/day

Test type: Pre-/postnatal development

Species: rabbit, female

Application Route: Oral

Dose Levels: 0 - 10 - 30 - 100 mg/kg bw/day

Method: OECD Test Guideline 414

Genotoxicity in vitro

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

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 476

2-phenoxyethyl acrylate

Test type: Ames test

Test system: *Escherichia coli*

Metabolic activation: with/without

Result: negative

Method: OECD Test Guideline 471

Test type: Ames test

Test system: *Salmonella typhimurium*

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 476

Test type: Chromosome aberration test in vitro

Test system: Human lymphocytes

Metabolic activation: with/without

Result: negative

Method: OECD Test Guideline 473

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exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate

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: Chinese hamster V79 cell line

Metabolic activation: with/without

Result: negative

Method: OECD Test Guideline 476

Test type: Chromosome aberration test in vitro

Test system: Human lymphocytes

Metabolic activation: with/without

Result: negative

Method: OECD Test Guideline 487

hexamethylene diacrylate

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

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate

Test type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster ovary (CHO) cells

Metabolic activation: with/without

Result: negative

Method: OECD Test Guideline 476

Test type: In vitro mammalian cell gene mutation test

Test system: mouse lymphoma cells

Metabolic activation: with/without

Result: positive

Hydroxycyclohexyl phenyl ketone

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: Chinese hamster ovary (CHO) cells

Metabolic activation: with/without

Result: negative

Method: OECD Test Guideline 476

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

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: Chromosome aberration test in vitro

Test system: Chinese hamster lung cells

Metabolic activation: with/without

Result: negative

Method: OECD Test Guideline 473

Test type: Chromosome aberration test in vitro

Test system: Chinese hamster V79 cell line

Metabolic activation: with/without

Result: negative

Method: OECD Test Guideline 476

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-phenoxyethyl acrylate

no data available

exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate

No data available, supplier information

hexamethylene diacrylate

Test type: In vivo micronucleus test

Species: Mouse, male

Result: negative

Method: OECD Test Guideline 474

Studies of a comparable product.

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate

Test type: In vivo micronucleus test

Species: Mouse, male/female

Application Route: intraperitoneal

Result: negative

Method: OECD Test Guideline 474

Test type: In vivo micronucleus test

Species: Mouse, female

Application Route: intraperitoneal

Result: negative

Hydroxycyclohexyl phenyl ketone

Test type: In vivo micronucleus test

Species: Chinese hamster, male/female

Application Route: Oral

Result: negative

Method: OECD Test Guideline 474

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

No data available.

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-phenoxyethyl acrylate

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

exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate

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

hexamethylene diacrylate

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

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate

Target Organs: Respiratory tract

May cause respiratory irritation.

Hydroxycyclohexyl phenyl ketone

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

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

No data available.

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-phenoxyethyl acrylate

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

exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate

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

hexamethylene diacrylate

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

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate

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

Hydroxycyclohexyl phenyl ketone

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

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

No data available.

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-phenoxyethyl acrylate

No data available.

exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate

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

hexamethylene diacrylate

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

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate

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

Hydroxycyclohexyl phenyl ketone

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

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

No data available.

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-phenoxyethyl acrylate

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

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

Teratogenicity: Suspected of damaging the unborn child (Repr. 2).

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

exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl 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.

hexamethylene diacrylate

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.

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate

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.

Hydroxycyclohexyl phenyl ketone

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.

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

Carcinogenicity: No data available.

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

Teratogenicity: Suspected of damaging the unborn child (Repr. 2).

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

Toxicology Assessment

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-phenoxyethyl acrylate

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

Sensitization: May cause an allergic skin reaction.

exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate

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

Sensitization: May cause an allergic skin reaction.

hexamethylene diacrylate

Acute effects: Causes skin irritation. Causes serious eye irritation.

Sensitization: May cause an allergic skin reaction.

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate

Acute effects: Causes skin irritation. Causes serious eye irritation.

Sensitization: May cause an allergic skin reaction.

Hydroxycyclohexyl phenyl ketone

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

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

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

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

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

Ecotoxicological studies of the product are not available.

Do not allow to escape into waterways, wastewater or soil.

Please find below the ecotoxicological data available to us for the components.

12.1 Toxicity**Acute Fish toxicity**

Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate
LC50 > 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-phenoxyethyl acrylate

LC50 10 mg/l

Species: Leuciscus idus (Golden orfe)

Exposure duration: 96 h

Method: OECD Test Guideline 203

exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate

LC50 0,704 mg/l

Species: Danio rerio (zebra fish)

Exposure duration: 96 h

Method: OECD Test Guideline 203

hexamethylene diacrylate

LC50 0,38 mg/l

Species: Oryzias latipes (Japanese medaka)

Exposure duration: 96 h

Method: OECD Test Guideline 203

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate

LC50 1 - 10 mg/l

Species: Leuciscus idus (Golden orfe)

Exposure duration: 96 h

Method: DIN 38412

Hydroxycyclohexyl phenyl ketone

LC50 24 mg/l

Species: Danio rerio (zebra fish)

Exposure duration: 96 h

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

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

LC50 1,4 mg/l

Species: Cyprinus carpio (Carp)

Exposure duration: 96 h

Method: OECD Test Guideline 203

Chronic Fish toxicity

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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-phenoxyethyl acrylate
 No data available.

exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate
 Study scientifically not justified.

hexamethylene diacrylate
 NOEC 0,072 mg/l
 Species: Oryzias latipes (Orange-red killifish)
 Exposure duration: 39 d
 Method: OECD Test Guideline 210

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate
 No data available.

Hydroxycyclohexyl phenyl ketone
 EC10 > 10 mg/l
 Species: Pimephales promelas (fathead minnow)
 Exposure duration: 32 d
 Method: OECD Test Guideline 210

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide
 No data available.

Acute toxicity for daphnia

Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate
 EL50 > 100 mg/l
 Species: Daphnia magna (Water flea)
 Exposure duration: 48 h
 Method: OECD Test Guideline 202

2-phenoxyethyl acrylate
 EC50 1,21 mg/l
 Species: Daphnia magna (Water flea)
 Exposure duration: 48 h
 Method: OECD Test Guideline 202

exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate
 Study scientifically not justified.

hexamethylene diacrylate
 EC50 2,7 mg/l
 Species: Daphnia magna (Water flea)
 Exposure duration: 48 h
 Method: OECD Test Guideline 202

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate
 EC50 10 - 100 mg/l
 Species: Daphnia magna (Water flea)
 Exposure duration: 48 h
 Method: OECD Test Guideline 202

Hydroxycyclohexyl phenyl ketone
 EC50 53,9 mg/l
 Species: Daphnia magna (Water flea)
 Exposure duration: 48 h
 Method: OECD Test Guideline 202

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

EC50 3,53 mg/l

Species: Daphnia magna (Water flea)

Exposure duration: 48 h

Method: OECD Test Guideline 202

Chronic toxicity to daphnia

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-phenoxyethyl acrylate

EC10 0,1 mg/l

Species: Daphnia magna (Water flea)

Exposure duration: 21 d

Method: OECD Test Guideline 211

Studies of a comparable product.

exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate

NOEC 0,092 mg/l

Species: Daphnia magna (Water flea)

Exposure duration: 21 d

Method: OECD Test Guideline 211

hexamethylene diacrylate

NOEC 0,14 mg/l

Species: Daphnia magna (Water flea)

Exposure duration: 21 d

Method: OECD Test Guideline 211

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate

No data available.

Hydroxycyclohexyl phenyl ketone

EC10 (mortality) 0,04 - 0,5 mg/l

Species: Daphnia magna (Water flea)

Exposure duration: 21 d

Method: OECD Test Guideline 211

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

No data available.

Acute toxicity for algae

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

EL50 105 mg/l

endpoint: Growth inhibition

Species: Pseudokirchneriella subcapitata (green algae)

Exposure duration: 72 h

Method: OECD Test Guideline 201

EL10 29 mg/l

endpoint: Growth inhibition

Species: Pseudokirchneriella subcapitata (green algae)

Exposure duration: 72 h

Method: OECD Test Guideline 201

2-phenoxyethyl acrylate

EC50 4,4 mg/l

Species: Desmodesmus subspicatus (Green algae)

Exposure duration: 72 h

Method: ISO 8692

EC10 0,71 mg/l

Species: Desmodesmus subspicatus (Green algae)

Exposure duration: 72 h

Method: ISO 8692

exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate
 EC50 1,98 mg/l
 Species: *Pseudokirchneriella subcapitata* (green algae)
 Exposure duration: 72 h
 Method: OECD Test Guideline 201

NOEC 0,405 mg/l
 Species: *Pseudokirchneriella subcapitata* (green algae)
 Exposure duration: 72 h
 Method: OECD Test Guideline 201

hexamethylene diacrylate
 EC50 2,33 mg/l
 Species: *Selenastrum capricornutum* (green algae)
 Exposure duration: 72 h
 Method: OECD Test Guideline 201

NOEC 0,9 mg/l
 Species: *Selenastrum capricornutum* (green algae)
 Exposure duration: 72 h
 Method: OECD Test Guideline 201

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate
 ErC50 10 - 100 mg/l
 Species: *scenedesmus subspicatus*
 Exposure duration: 72 h
 Method: OECD Test Guideline 201

Hydroxycyclohexyl phenyl ketone
 EC50 14,4 mg/l
 endpoint: Growth inhibition
 Species: *Desmodesmus subspicatus* (Green algae)
 Exposure duration: 72 h
 Method: OECD Test Guideline 201

EC10 2,51 mg/l
 endpoint: Growth inhibition
 Species: *Desmodesmus subspicatus* (Green algae)
 Exposure duration: 72 h
 Method: OECD Test Guideline 201

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide
 EC50 > 2,01 mg/l
 Species: *Pseudokirchneriella subcapitata* (green algae)
 Exposure duration: 72 h
 Method: OECD Test Guideline 201

EC10 1,56 mg/l
 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-phenoxyethyl acrylate
 EC50 177 mg/l
 Species: activated sludge
 Method: OECD Test Guideline 209

exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate
 Study scientifically not justified.

hexamethylene diacrylate

EC50 270 mg/l

Species: activated sludge

Exposure duration: 30 min

Method: OECD Test Guideline 209

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate

EC50 > 10.000 mg/l

Species: Pseudomonas putida

Exposure duration: 0,5 h

Method: DIN 38412

Hydroxycyclohexyl phenyl ketone

EC50 > 100 mg/l

Species: activated sludge

Exposure duration: 3 h

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

EC50 > 1.000 mg/l

Species: activated sludge

Method: OECD Test Guideline 209

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-phenoxyethyl acrylate

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

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

exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate

Acute aquatic toxicity: Very toxic to aquatic life.

Chronic aquatic toxicity: Very toxic to aquatic life with long lasting effects.

hexamethylene diacrylate

Acute aquatic toxicity: Very toxic to aquatic life.

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

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate

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

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

Hydroxycyclohexyl phenyl ketone

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

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

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

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

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

M-Factor

exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate

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

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

hexamethylene diacrylate

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-phenoxyethyl acrylate

Test type: aerobic

Inoculum: Sewage sludge

Biodegradation: 22 %, 28 d, i.e. readily biodegradable

Method: OECD Test Guideline 301 D

exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate

Test type: aerobic

Inoculum: activated sludge, non-adapted

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

Method: OECD Test Guideline 301 F

Test type: aerobic

Inoculum: activated sludge, non-adapted

Biodegradation: 73,9 %, 60 d, i.e. not readily biodegradable (10 day time window criterion is not met)

Method: OECD Test Guideline 301 F

Test type: aerobic

Inoculum: activated sludge, non-adapted

Biodegradation: 57 %, 28 d, i.e. not readily degradable

Method: OECD Test Guideline 310

hexamethylene diacrylate

Biodegradation: 60 - 70 %, 28 d, i.e. readily biodegradable

Method: OECD Test Guideline 310

Biodegradation: 60 - 70 %, 28 d, i.e. inherently degradable

Method: OECD Test Guideline 302 B

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate

Biodegradation: 40 - 50 %, i.e. not readily degradable

Method: OECD Test Guideline 301 B

Hydroxycyclohexyl phenyl ketone

Test type: aerobic

Inoculum: activated sludge, non-adapted

Biodegradation: 73 %, 28 d, i.e. readily biodegradable

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

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

Test type: aerobic

Inoculum: activated sludge, non-adapted

Biodegradation: 0 - 10 %, 28 d, i.e. not readily degradable

Method: OECD Test Guideline 301 F

Stability in water

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

Test type: Hydrolysis

Half life: 110 h at 25 °C (pH: 7)

Method: OECD Test Guideline 111

Test type: Hydrolysis

Half life: 38 h at 25 °C (pH: 9)

Method: OECD Test Guideline 111

12.3 Bioaccumulative potential

Bioaccumulation

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

Species: Lepomis macrochirus (Bluegill sunfish)

Exposure duration: 14 d

Method: OECD Test Guideline 305

An accumulation in aquatic organisms is not to be expected.

2-phenoxyethyl acrylate

Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate

Bioconcentration factor (BCF): 37

Species: Danio rerio (zebra fish)

Exposure duration: 56 h

Method: OECD Test Guideline 305

Studies of a comparable product.

hexamethylene diacrylate

no data available

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate

Accumulation in aquatic organisms is unlikely.

Hydroxycyclohexyl phenyl ketone

Bioconcentration factor (BCF): 4 - 12

Species: Cyprinus carpio (Carp)

Method: OECD Test Guideline 305 C

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

Bioconcentration factor (BCF): 18 - 22

Species: Cyprinus carpio (Carp)

Exposure duration: 8 Weeks

Partition coefficient (n-octanol/water)

2-phenoxyethyl acrylate

log Pow: 2,58

exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate

log Pow: 4,09 (value log Pow: calculated)

12.4 Mobility in soil**Distribution among environmental compartments**

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

Adsorption/Soil

log Koc value: 3,55

Method: OECD Test Guideline 121

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

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

The product contains none organically bound halogens.

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	:	UN 3082
14.2 UN proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BADGE epoxy acrylate, 2-Phenoxyethyl acrylate)
14.3 Transport hazard class(es)	:	9
Hazard Identification Number	:	90
14.4 Packing group	:	III
14.5 Environmental hazards	:	yes

Limited quantity regulations applicable in accordance with chapter 3.4 ADR/RID in compliance with threshold value

ADN

14.1 UN number or ID number	:	UN 3082
14.2 UN proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BADGE epoxy acrylate, 2-Phenoxyethyl acrylate)
14.3 Transport hazard class(es)	:	9
Hazard Identification Number	:	90
14.4 Packing group	:	III
14.5 Environmental hazards	:	yes

This classification data does not apply to transportation by tanker. If required, additional information can be requested from the manufacturer.

IATA

14.1 UN number or ID number	:	UN 3082
14.2 UN proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BADGE epoxy acrylate, 2-Phenoxyethyl acrylate)
14.3 Transport hazard class(es)	:	9
14.4 Packing group	:	III
14.5 Environmental hazards	:	yes

IMDG

14.1 UN number or ID number	:	UN 3082
14.2 UN proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BADGE epoxy acrylate, 2-Phenoxyethyl acrylate)
14.3 Transport hazard class(es)	:	9
14.4 Packing group	:	III
14.5 Environmental hazards	:	Marine pollutant
EmS Code	:	F-A - S-F
Segregation Group IMDG	:	not applicable

14.6 Special precautions for user

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See section 6 - 8.

Additional information : Environmentally hazardous substance. 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.

E2 Environmental hazards

Quantity1: 200 t Quantity2: 500 t

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

TA Luft List (Germany)

Type: 5.2.1 Total dust

Fraction of other substances: 2,53 %

Type: 5.2.5 Organic Substances

portion Class 1: 10,38 %

Fraction of other substances: 86,92 %

Type: 5.2.7.1.3 Substances toxic to reproduction

Fraction of other substances: 0,5 %

Water contaminating class (Germany)

2 obviously hazardous to water

Classification according to AwSV, Annex 1 (5.2)

Other regulations

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

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

The product is subject to the supply restrictions of the German Ordinance on the Prohibition of Chemicals

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

exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl 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.**

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H360Fd	May damage fertility. Suspected of damaging the unborn child.
H361d	Suspected of damaging the unborn child.
H400	Very 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.

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 Irrit. 2 H319	Calculation method
Skin Sens. 1 H317	Calculation method
Repr. 1B H360Fd	Calculation method
STOT SE 3 H335	Calculation method
Aquatic Chronic 2 H411	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.

Annex

The operational conditions and the implementation of Risk Management Measures (RMM) are dependent on the following priority-/lead substances for the respective exposure routes:

Lead substance(s), aquatic environment:

exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate

Lead substance(s), ozone layer:

Not relevant

Lead substance(s), Inhalation:

2-phenoxyethyl acrylate

No exposure scenarios available

Lead substance(s), Dermal:

2-phenoxyethyl acrylate

No exposure scenarios available

Lead substance(s), Oral:

Not relevant

Local effects, Skin:

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

For RMMs see chapter 8 of the SDS.

hexamethylene diacrylate

For RMMs see chapter 8 of the SDS.

Local effects, Inhalation:

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate

For RMMs see chapter 8 of the SDS.

Local effects, Eyes:

hexamethylene diacrylate

For RMMs see chapter 8 of the SDS.

Attention, advice for uses of the product:

A finalized assessment of save uses is not possible because exposure scenarios are not available for all determined lead substances.

Exposure Scenario

Number	Title
ES1	Formulation or re-packing
ES2	Use at industrial sites; End Use; Formulation.
ES3	Use at industrial sites; End Use; Monomers; Dry polymerisation; Wet polymerisation.
ES4	Widespread use by professional workers

ES1: Formulation or re-packing**1.1. Title section**

Exposure Scenario name	:	Formulation or re-packing
Structured Short Title	:	Formulation or re-packing

Environment

CS1	Formulation or re-packing [exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate]	ERC2
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1.2. Conditions of use affecting exposure**1.2.1. Control of environmental exposure: Formulation into mixture (ERC2)
[exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate]**

Product (article) characteristics		
Molar Mass	:	208,3 g/mol
Vapour pressure	:	1,3 Pa at 20 °C
Water solubility	:	19,8 mg/l
Partition coefficient (n-octanol/water)	:	log Pow: 4,52
Biodegradation	:	Inherently biodegradable.

Amount used, frequency and duration of use (or from service life)

Fraction of regional tonnage used locally:	:	1
Fraction used at main local source:	:	1
Annual amount per site	:	200 tonnes/year
Daily amount per site	:	1000 kg/day
Daily amount per site (Msafe)	:	2.701,449 kg
Critical compartment for Msafe	:	Soil
Emission days	:	200
Remarks	:	days/year

Conditions and measures related to sewage treatment plant

STP type	:	Municipal Sewage Treatment Plant
STP sludge treatment	:	Sewage sludge incineration
STP effluent	:	2.000 m ³ /d
Effectiveness (of a measure)	:	100 %

Conditions and measures related to treatment of waste (including article waste)

Waste treatment	:	Incineration
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Other conditions affecting environmental exposure

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Receiving surface water flow	:	18.000 m ³ /d
Local freshwater dilution factor	:	10
Local marine water dilution factor	:	100

1.3. Exposure estimation and reference to its source**1.3.1. Environmental release and exposure: Formulation into mixture (ERC2)
[exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate]**

Release route	Release rate	Release estimation method	Remarks
Waste water	0 %	ERC based estimation	
Air	2,5 %	ERC based estimation	
Soil	0 %	ERC based estimation	

Compartment	Exposure level	RCR	Remarks
Freshwater	0,000000960 mg/L (EasyTRA, EU TGD)	0,001043	
Freshwater sediment	0,000151 mg/kg dry weight (EasyTRA, EU TGD)	0,001045	
Marine water	0,000000154 mg/L (EasyTRA, EU TGD)	0,001677	
Marine sediment	0,000024 mg/kg dry weight (EasyTRA, EU TGD)	0,001679	
STP (sewage-treatment plant)	0 mg/L (EasyTRA, EU TGD)	0	
Soil	0,006336 mg/kg dry weight (EasyTRA, EU TGD)	0,222314	

Additional information on exposure estimation

Based on the applied RMMs the risk towards environment is sufficiently controlled (RCR ≤ 1).

1.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

ES2: Use at industrial sites; End Use; Formulation.**2.1. Title section**

Exposure Scenario name	:	End Use, Formulation
Structured Short Title	:	Use at industrial sites; End Use; Formulation.

Environment		
CS1	End Use, Formulation [exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate]	ERC5

2.2. Conditions of use affecting exposure**2.2.1. Control of environmental exposure: Use at industrial site leading to inclusion into/onto article (ERC5) [exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate]**

Product (article) characteristics		
Molar Mass	:	208,3 g/mol
Vapour pressure	:	1,3 Pa at 20 °C
Water solubility	:	19,8 mg/l
Partition coefficient (n-octanol/water)	:	log Pow: 4,52
Biodegradation	:	Inherently biodegradable.
Amount used, frequency and duration of use (or from service life)		
Fraction of regional tonnage used locally:	:	0,1
Fraction used at main local source:	:	1
Annual amount per site	:	180 tonnes/year
Daily amount per site	:	90 kg/day
Daily amount per site (Msafe)	:	3.947,239 kg
Critical compartment for Msafe	:	Soil
Emission days	:	200
Remarks	:	days/year
Conditions and measures related to sewage treatment plant		
STP type	:	Municipal Sewage Treatment Plant
STP sludge treatment	:	Sewage sludge incineration
STP effluent	:	2.000 m ³ /d
Effectiveness (of a measure)	:	100 %
Conditions and measures related to treatment of waste (including article waste)		
Waste treatment	:	Incineration
Other conditions affecting environmental exposure		

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Receiving surface water flow	:	18.000 m ³ /d
Local freshwater dilution factor	:	10
Local marine water dilution factor	:	100

2.3. Exposure estimation and reference to its source**2.3.1. Environmental release and exposure: Use at industrial site leading to inclusion into/onto article (ERC5) [exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate]**

Release route	Release rate	Release estimation method	Remarks
Waste water	0 %	ERC based estimation	
Air	1,7 %	SpERC = FEICA 7	
Soil	0 %	ERC based estimation	

Compartment	Exposure level	RCR	Remarks
Freshwater	0,000000960 mg/L (EasyTRA, EU TGD)	0,001043	
Freshwater sediment	0,000151 mg/kg dry weight (EasyTRA, EU TGD)	0,001045	
Marine water	0,000000154 mg/L (EasyTRA, EU TGD)	0,001677	
Marine sediment	0,000024 mg/kg dry weight (EasyTRA, EU TGD)	0,001679	
STP (sewage-treatment plant)	0 mg/L (EasyTRA, EU TGD)	0	
Soil	0,000392 mg/kg dry weight (EasyTRA, EU TGD)	0,013752	

Additional information on exposure estimation

Based on the applied RMMs the risk towards environment is sufficiently controlled (RCR ≤ 1).

2.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

ES3: Use at industrial sites; End Use; Monomers; Dry polymerisation; Wet polymerisation.**3.1. Title section**

Exposure Scenario name	: End Use, Monomers, Dry polymerisation, Wet polymerisation
Structured Short Title	: Use at industrial sites; End Use; Monomers; Dry polymerisation; Wet polymerisation.

Environment

CS1	End Use, Monomers, Dry polymerisation, Wet polymerisation [exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate]	ERC6c
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3.2. Conditions of use affecting exposure

3.2.1. Control of environmental exposure: Use of monomer in polymerisation processes at industrial site (inclusion or not into/onto article) (ERC6c)
[exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate]

Product (article) characteristics	
Molar Mass	: 208,3 g/mol
Vapour pressure	: 1,3 Pa at 20 °C
Water solubility	: 19,8 mg/l
Partition coefficient (n-octanol/water)	: log Pow: 4,52
Biodegradation	: Inherently biodegradable.
Amount used, frequency and duration of use (or from service life)	
Fraction of regional tonnage used locally:	: 0,1
Fraction used at main local source:	: 1
Annual amount per site	: 1400 tonnes/year
Remarks	: Dry polymerisation
Annual amount per site	: 400 tonnes/year
Remarks	: Wet polymerisation
Daily amount per site	: 466,667 kg/day
Remarks	: Dry polymerisation
Daily amount per site	: 133,333 kg/day
Remarks	: Wet polymerisation
Daily amount per site (Msafe)	: 87.500 kg
Critical compartment for Msafe	: Soil
Remarks	: Dry polymerisation
Daily amount per site (Msafe)	: 3.737,239 kg
Critical compartment for Msafe	: Marine sediment
Remarks	: Wet polymerisation
Emission days	: 300

Remarks	:	days/year
Conditions and measures related to sewage treatment plant		
STP type	:	Municipal Sewage Treatment Plant
STP sludge treatment	:	Sewage sludge incineration
STP effluent	:	2.000 m ³ /d
Effectiveness (of a measure)	:	100 %
Conditions and measures related to treatment of waste (including article waste)		
Waste treatment	:	Incineration
Other conditions affecting environmental exposure		
Receiving surface water flow	:	18.000 m ³ /d
Local freshwater dilution factor	:	10
Local marine water dilution factor	:	100

3.3. Exposure estimation and reference to its source

3.3.1. Environmental release and exposure: Use of monomer in polymerisation processes at industrial site (inclusion or not into/onto article) (ERC6c) [exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate]

Release route	Release rate	Release estimation method	Remarks
Waste water	0 %	ERC based estimation	Dry polymerisation
Waste water	0,001 %	ERC based estimation	Wet polymerisation
Air	0,05 %	ERC based estimation	
Soil	0 %	ERC based estimation	

Compartment	Exposure level	RCR	Remarks
Freshwater	0,000000960 mg/L (EasyTRA, EU TGD)	0,001043	Dry polymerisation
Freshwater sediment	0,000151 mg/kg dry weight (EasyTRA, EU TGD)	0,001045	Dry polymerisation
Marine water	0,000000154 mg/L (EasyTRA, EU TGD)	0,001677	Dry polymerisation
Marine sediment	0,000024 mg/kg dry weight (EasyTRA, EU TGD)	0,001679	Dry polymerisation
STP (sewage-treatment plant)	0 mg/L (EasyTRA, EU TGD)	0	Dry polymerisation
Soil	0,000093 mg/kg dry weight (EasyTRA, EU TGD)	0,003266	Dry polymerisation
Freshwater	0,000032 mg/L (EasyTRA, EU TGD)	0,035	Wet polymerisation
Freshwater sediment	0,005081 mg/kg dry weight (EasyTRA, EU TGD)	0,035043	Wet polymerisation
Marine water	0,00000328 mg/L (EasyTRA, EU TGD)	0,035634	Wet polymerisation

Marine sediment	0,000517 mg/kg dry weight (EasyTRA, EU TGD)	0,035677	Wet polymerisation
STP (sewage-treatment plant)	0,000313 mg/L (EasyTRA, EU TGD)	0,000157	Wet polymerisation
Soil	0,00003 mg/kg dry weight (EasyTRA, EU TGD)	0,001045	Wet polymerisation

Additional information on exposure estimation

Based on the applied RMMs the risk towards environment is sufficiently controlled (RCR ≤ 1).

3.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

ES4: Widespread use by professional workers**4.1. Title section**

Exposure Scenario name	:	End Use, Formulation
Structured Short Title	:	Widespread use by professional workers

Environment		
CS1	End Use, Formulation [exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate]	ERC8c, ERC8f

4.2. Conditions of use affecting exposure

4.2.1. Control of environmental exposure: Widespread use leading to inclusion into/onto article (indoor) (ERC8c) / Widespread use leading to inclusion into/onto article (outdoor) (ERC8f)
[exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate]

Product (article) characteristics		
Molar Mass	:	208,3 g/mol
Vapour pressure	:	1,3 Pa at 20 °C
Water solubility	:	19,8 mg/l
Partition coefficient (n-octanol/water)	:	log Pow: 4,52
Biodegradation	:	Inherently biodegradable.
Amount used, frequency and duration of use (or from service life)		
Fraction of regional tonnage used locally:	:	1
Fraction used at main local source:	:	0,002
Annual amount per site	:	20 tonnes/year
Daily amount per site	:	0,109589 kg/day
Daily amount per site (Msafe)	:	1,791 kg
Critical compartment for Msafe	:	Marine sediment
Emission days	:	365
Remarks	:	days/year
Conditions and measures related to treatment of waste (including article waste)		
Waste treatment	:	External treatment and disposal of waste should comply with applicable local and/or national regulations.
Other conditions affecting environmental exposure		
Local freshwater dilution factor	:	10
Local marine water dilution factor	:	100

4.3. Exposure estimation and reference to its source

4.3.1. Environmental release and exposure: Widespread use leading to inclusion into/onto article (indoor) (ERC8c) / Widespread use leading to inclusion into/onto article (outdoor) (ERC8f)
[exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate]

Release route	Release rate	Release estimation method	Remarks
Waste water	1 %	ERC based estimation	
Air	15 %	ERC based estimation	
Soil	0,5 %	ERC based estimation	

Compartment	Exposure level	RCR	Remarks
Freshwater	0,0000056 mg/L (EasyTRA, EU TGD)	0,060465	
Freshwater sediment	0,008778 mg/kg dry weight (EasyTRA, EU TGD)	0,060538	
Marine water	0,00000562 mg/L (EasyTRA, EU TGD)	0,061099	
Marine sediment	0,000887 mg/kg dry weight (EasyTRA, EU TGD)	0,061173	
Soil	0,00000444 mg/kg dry weight (EasyTRA, EU TGD)	0,000156	

Additional information on exposure estimation

Based on the applied RMMs the risk towards environment is sufficiently controlled (RCR ≤ 1).

4.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

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