

SAFETY DATA SHEET (SDS)



Manufacturer:
Covestro

Product Name:
Covestro Desolite® DP-1021 Primary Optical Fiber Coating, UV Cure (1 kg)

Manufacturer Part Number:
COV-DP-1021-1KG

▶ Click here for more details on the Covestro Desolite® DP-1021 Primary Optical Fiber Coating, UV Cure (1 kg)

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



DeSolite DP-1021

Version 3.0

Revision Date 15.08.2025

Print Date 22.08.2025

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

1.1 Product identifier

DESOLITE DP-1021

Material number: 50025061

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
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 (H360F)

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

2.2 Label elements



Danger

Hazardous components which must be listed on the label

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

3-Trimethoxysilylpropane-1-thiol

Hazard statements:

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H360F May damage fertility.

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

The following percentage of the mixture consists of ingredient(s) with unknown acute dermal toxicity: 40 %

The following percentage of the mixture consists of ingredient(s) with unknown acute inhalation toxicity: 40 %

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 40 %

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.

This substance/mixture contains components considered to have endocrine disrupting properties for environment, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

SECTION 3: Composition/information on ingredients

Type of product: Mixture

3.2 Mixtures

optical fiber coatings

Hazardous components

Ethoxylated nonyl phenol acrylate

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

EC-No.: 614-163-6

CAS-No.: 678991-31-6

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

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

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

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

Poly(oxy-1,2-ethanediyl), alpha, alpha-[(1-methylethylidene)di-4,1-phenylene]bis[omega-[(1-oxo-2-propenyl)oxy]-

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

EC-No.: 701-362-9

REACH Registration Number: 01-2119969511-34-0007

Classification (1272/2008/CE): Aquatic Chronic 1 H410

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

3-Trimethoxysilylpropane-1-thiol

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

nonylphenol, branched and linear, ethoxylated (with average molecular weight $\leq 1\,540$ g/mol) [includes ortho-, meta-, para-isomers or any combination thereof]

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

EC-No.: 500-209-1

CAS-No.: 68412-54-4

Classification (1272/2008/CE): Aquatic Acute 1 H400 Aquatic Chronic 1 H410

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

M-factor (chron. aquat. tox.): 10

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

nonylphenol, branched and linear, ethoxylated (with average molecular weight $\leq 1\,540$ g/mol) [includes ortho-, meta-, para-isomers or any combination thereof]

CAS-No.: 68412-54-4

EU REACH Annex XIV, Authorisation list

This product contains an ingredient subject to Annex XIV of the REACH Regulation 1907/2006/EC.

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

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) : 10: Combustible liquids
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

8.1 Control parameters

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL)

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/m ³	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)

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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

Poly(oxy-1,2-ethanediyl), alpha, alpha-[(1-methylethylidene)di-4,1-phenylene]bis[omega-[(1-oxo-2-propenyl)oxy]-

Value type	Route of exposure	Health Effects	Value	Remarks
Workers	Inhalation	Long-term systemic effects	12,32 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	7 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	2,17 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	2,5 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	1,25 mg/kg bw/day	
Consumers	Eye contact	Local effects		No hazard identified

Predicted No Effect Concentration (PNEC)**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

Poly(oxy-1,2-ethanediyl), alpha, alpha-[(1-methylethylidene)di-4,1-phenylene]bis[omega-[(1-oxo-2-propenyl)oxy]-

Compartment	Value	Remarks
Fresh water	1,13 µg/l	
Fresh water sediment	0,117 mg/kg dry weight	
Marine water	0,113 µg/l	
Marine sediment	0,0117 mg/kg dry weight	
Sewage treatment plant	1,43 mg/l	
Air		No hazard identified
Soil	0,0228 mg/kg dry weight	
Oral		Does not bioaccumulate.
Intermittent use/release	60 µg/l	Fresh water
Intermittent use/release	6 µg/l	Marine 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 Face-shield

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:	colourless to yellowish
Odour:	characteristic
Odour Threshold:	not established
pH:	not applicable
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 g/cm ³ 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:	4.800 - 6.200 mPa.s at 20 °C
Viscosity, kinematic:	> 4800 mm ² /s at 20 °C > 20,5 mm ² /s at 40 °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

Ethoxylated nonyl phenol acrylate
LD50 rat: > 5.000 mg/kg

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide
LD50 rat, male/female: > 5.000 mg/kg
Method: OECD Test Guideline 401

Poly(oxy-1,2-ethanediyl), alpha, alpha-[(1-methylethylidene)di-4,1-phenylene]bis[omega-[(1-oxo-2-propenyl)oxy]-
LD50 rat, female: > 2.000 mg/kg
Assessment: The substance or mixture has no acute oral toxicity
Method: OECD Test Guideline 423

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

nonylphenol, branched and linear, ethoxylated (with average molecular weight $\leq 1\,540$ g/mol) [includes ortho-, meta-, para-isomers or any combination thereof]
LD50 rat: 8.400 mg/kg
Studies of a comparable product.

Acute toxicity, dermal

Ethoxylated nonyl phenol acrylate
Assessment: No data available, supplier information

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

Poly(oxy-1,2-ethanediyl), alpha, alpha-[(1-methylethylidene)di-4,1-phenylene]bis[omega
-[(1-oxo-2-propenyl)oxy]-
LD50 rat, male/female: > 2.000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity
Method: OECD Test Guideline 402

3-Trimethoxysilylpropane-1-thiol
LD50 rabbit, male/female: > 2.000 mg/kg
Method: OECD Test Guideline 402

nonylphenol, branched and linear, ethoxylated (with average molecular weight $\leq 1\,540$ g/mol) [includes ortho-, meta-, para-isomers or any combination thereof]
LD50 rabbit: > 3.000 mg/kg
Studies of a comparable product.

Acute toxicity, inhalation

Ethoxylated nonyl phenol acrylate
Assessment: No data available, supplier information

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

Poly(oxy-1,2-ethanediyl), alpha, alpha-[(1-methylethylidene)di-4,1-phenylene]bis[omega
-[(1-oxo-2-propenyl)oxy]-
Assessment: Study scientifically not justified.

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.

nonylphenol, branched and linear, ethoxylated (with average molecular weight $\leq 1\,540$ g/mol) [includes ortho-, meta-, para-isomers or any combination thereof]
Assessment: no data available
Studies of a comparable product.

Primary skin irritation

Ethoxylated nonyl phenol acrylate
Result: irritating
Classification: Causes skin irritation.

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide
Species: rabbit
Result: slight irritant
Classification: No skin irritation

Poly(oxy-1,2-ethanediyl), alpha, alpha-[(1-methylethylidene)di-4,1-phenylene]bis[omega
-[(1-oxo-2-propenyl)oxy]-
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

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nonylphenol, branched and linear, ethoxylated (with average molecular weight $\leq 1\,540$ g/mol) [includes ortho-, meta-, para-isomers or any combination thereof]

Species: rabbit

Result: non-irritant

Classification: No skin irritation

Primary mucosae irritation

Ethoxylated nonyl phenol acrylate

Result: irritating

Classification: Causes serious eye irritation.

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

Species: rabbit

Result: slight irritant

Classification: No eye irritation

Poly(oxy-1,2-ethanediyl), alpha, alpha-[(1-methylethylidene)di-4,1-phenylene]bis[omega-[(1-oxo-2-propenyl)oxy]-

Species: rabbit

Result: non-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

nonylphenol, branched and linear, ethoxylated (with average molecular weight $\leq 1\,540$ g/mol) [includes ortho-, meta-, para-isomers or any combination thereof]

Species: rabbit

Result: non-irritant

Classification: No eye irritation

Sensitisation

Ethoxylated nonyl phenol acrylate

Skin sensitisation:

No data available.

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.

Poly(oxy-1,2-ethanediyl), alpha, alpha-[(1-methylethylidene)di-4,1-phenylene]bis[omega-[(1-oxo-2-propenyl)oxy]-

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

Species: Mouse

Result: negative

Classification: Does not cause skin sensitization.

Method: OECD Test Guideline 429

Respiratory sensitization

no data available

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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.

nonylphenol, branched and linear, ethoxylated (with average molecular weight $\leq 1\,540$ g/mol) [includes ortho-, meta-, para-isomers or any combination thereof]

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

Species: Guinea pig

Result: negative

Classification: Does not cause skin sensitization.

Method: OECD Test Guideline 406

Studies of a comparable product.

Respiratory sensitization

No data available.

Subacute, subchronic and prolonged toxicity

Ethoxylated nonyl phenol acrylate

NOAEL: 40 mg/kg

Species: rat, male/female

Exposure duration: 90 d

NOAEL: 200 mg/kg

Species: rat, male/female

Exposure duration: 2 Years

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

Poly(oxy-1,2-ethanediyl), alpha, alpha-[(1-methylethylidene)di-4,1-phenylene]bis[omega-[(1-oxo-2-propenyl)oxy]-

NOAEL: 250 mg/kg body weight/day

LOAEL (Lowest observable adverse effect level): 1.000 mg/kg

Application Route: Oral

Species: rat, male/female

Dose Levels: 0 - 50 - 250 - 1000 mg/kg bw/day

Method: OECD Test Guideline 408

3-Trimethoxysilylpropane-1-thiol

No data available.

nonylphenol, branched and linear, ethoxylated (with average molecular weight $\leq 1\,540$ g/mol) [includes ortho-, meta-, para-isomers or any combination thereof]

NOAEL: 50 mg/kg

LOAEL (Lowest observable adverse effect level): 150 mg/kg

Application Route: Oral

Species: rat, male/female

Exposure duration: 90 d

Frequency of treatment: daily

Studies of a comparable product.

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NOAEL: 100 mg/kg
LOAEL (Lowest observable adverse effect level): 400 mg/kg
Application Route: Oral
Species: rat, male/female
Dose Levels: 25 - 100 - 400
Exposure duration: 28 d
Frequency of treatment: daily
Method: OECD Test Guideline 407
Studies of a comparable product.

Carcinogenicity

Ethoxylated nonyl phenol acrylate
No data available, supplier information

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

Poly(oxy-1,2-ethanediyl), alpha, alpha-[(1-methylethylidene)di-4,1-phenylene]bis[omega
-[(1-oxo-2-propenyl)oxy]-
no data available

3-Trimethoxysilylpropane-1-thiol
No data available.

nonylphenol, branched and linear, ethoxylated (with average molecular weight $\leq 1\,540$ g/mol) [includes ortho-, meta-, para-isomers or any combination thereof]
No data available.

Reproductive toxicity/Fertility

Ethoxylated nonyl phenol acrylate
No data available, supplier information

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide
NOAEL (parents, generally 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

Poly(oxy-1,2-ethanediyl), alpha, alpha-[(1-methylethylidene)di-4,1-phenylene]bis[omega
-[(1-oxo-2-propenyl)oxy]-
NOAEL (parents, generally toxicity): 250 mg/kg body weight/day
NOAEL (parents, fertility): 1000 mg/kg body weight/day
NOAEL (offspring): >1000 mg/kg body weight/day
Species: rat, male/female
Application Route: Oral
Dose Levels: 0 - 50 - 250 - 1000 mg/kg body weight/day
Method: OECD Test Guideline 421

3-Trimethoxysilylpropane-1-thiol
No data available.

nonylphenol, branched and linear, ethoxylated (with average molecular weight $\leq 1\,540$ g/mol) [includes ortho-, meta-, para-isomers or any combination thereof]
No data available.

Reproductive toxicity/Developmental Toxicity/Teratogenicity

Ethoxylated nonyl phenol acrylate
No data available, supplier information

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

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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

Poly(oxy-1,2-ethanediyl), alpha, alpha-[(1-methylethylidene)di-4,1-phenylene]bis[omega-[(1-oxo-2-propenyl)oxy]-
NOAEL (teratogenicity): 1.000 mg/kg
NOAEL (maternal): 1.000 mg/kg
Species: rat, female
Application Route: Oral
Dose Levels: 0 - 50 - 250 - 1000 mg/kg body weight/day
Method: OECD Test Guideline 414

3-Trimethoxysilylpropane-1-thiol
No data available.

nonylphenol, branched and linear, ethoxylated (with average molecular weight $\leq 1\,540$ g/mol) [includes ortho-, meta-, para-isomers or any combination thereof]
No data available.

Genotoxicity in vitro

Ethoxylated nonyl phenol acrylate
No data available, supplier information

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

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Poly(oxy-1,2-ethanediyl), alpha, alpha-[(1-methylethylidene)di-4,1-phenylene]bis[omega-[(1-oxo-2-propenyl)oxy]-

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: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with/without

Result: negative

Method: OECD Test Guideline 471

Test type: Micronucleus test

Test system: mouse lymphoma cells

Metabolic activation: without

Result: positive

Method: OECD Test Guideline 487

Test type: Micronucleus test

Test system: mouse lymphoma cells

Metabolic activation: with

Result: negative

Method: OECD Test Guideline 487

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

nonylphenol, branched and linear, ethoxylated (with average molecular weight $\leq 1\,540$ g/mol) [includes ortho-, meta-, para-isomers or any combination thereof]

Test type: Ames test

Metabolic activation: with/without

Result: negative

Method: OECD Test Guideline 471

Studies of a comparable product.

Test type: Chromosome aberration test in vitro

Metabolic activation: with/without

Result: negative

Method: OECD Test Guideline 473

Studies of a comparable product.

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Test type: In vitro mammalian cell gene mutation test

Metabolic activation: with/without

Result: negative

Method: OECD Test Guideline 476

Studies of a comparable product.

Genotoxicity in vivo

Ethoxylated nonyl phenol acrylate

No data available, supplier information

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

No data available.

Poly(oxy-1,2-ethanediyl), alpha, alpha-[(1-methylethylidene)di-4,1-phenylene]bis[omega-[(1-oxo-2-propenyl)oxy]-

Test type: comet assay

Species: rat, male

Application Route: Oral

Result: negative

Method: OECD Test Guideline 489

Test substance: yes

3-Trimethoxysilylpropane-1-thiol

No data available.

nonylphenol, branched and linear, ethoxylated (with average molecular weight $\leq 1\,540$ g/mol) [includes ortho-, meta-, para-isomers or any combination thereof]

No data available.

STOT evaluation – one-time exposure

Ethoxylated nonyl phenol acrylate

No data available.

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

No data available.

Poly(oxy-1,2-ethanediyl), alpha, alpha-[(1-methylethylidene)di-4,1-phenylene]bis[omega-[(1-oxo-2-propenyl)oxy]-

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

3-Trimethoxysilylpropane-1-thiol

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

nonylphenol, branched and linear, ethoxylated (with average molecular weight $\leq 1\,540$ g/mol) [includes ortho-, meta-, para-isomers or any combination thereof]

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

STOT evaluation – repeated exposure

Ethoxylated nonyl phenol acrylate

No data available.

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

No data available.

Poly(oxy-1,2-ethanediyl), alpha, alpha-[(1-methylethylidene)di-4,1-phenylene]bis[omega-[(1-oxo-2-propenyl)oxy]-

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

3-Trimethoxysilylpropane-1-thiol

No data available.

nonylphenol, branched and linear, ethoxylated (with average molecular weight $\leq 1\,540$ g/mol) [includes ortho-, meta-, para-isomers or any combination thereof]

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

Aspiration toxicity

Ethoxylated nonyl phenol acrylate

No data available.

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

No data available.

Poly(oxy-1,2-ethanediyl), alpha, alpha-[(1-methylethylidene)di-4,1-phenylene]bis[omega-[(1-oxo-2-propenyl)oxy]-

No data available.

3-Trimethoxysilylpropane-1-thiol

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

nonylphenol, branched and linear, ethoxylated (with average molecular weight $\leq 1\,540$ g/mol) [includes ortho-, meta-, para-isomers or any combination thereof]

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

CMR Assessment

Ethoxylated nonyl phenol acrylate

Carcinogenicity: No data available.

Mutagenicity: No data available.

Teratogenicity: No data available.

Reproductive toxicity/Fertility: No data available.

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).

Poly(oxy-1,2-ethanediyl), alpha, alpha-[(1-methylethylidene)di-4,1-phenylene]bis[omega-[(1-oxo-2-propenyl)oxy]-

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.

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.

nonylphenol, branched and linear, ethoxylated (with average molecular weight $\leq 1\,540$ g/mol) [includes ortho-, meta-, para-isomers or any combination thereof]

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.

Toxicology Assessment

Ethoxylated nonyl phenol acrylate

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

Sensitization: no data available

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.

Poly(oxy-1,2-ethanediyl), alpha, alpha-[(1-methylethylidene)di-4,1-phenylene]bis[omega-[(1-oxo-2-propenyl)oxy]-

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

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.

nonylphenol, branched and linear, ethoxylated (with average molecular weight $\leq 1\,540$ g/mol) [includes ortho-, meta-, para-isomers or any combination thereof]

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

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

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

Ethoxylated nonyl phenol acrylate

No data available, supplier information

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

Poly(oxy-1,2-ethanediyl), alpha, alpha-[(1-methylethylidene)di-4,1-phenylene]bis[omega -[(1-oxo-2-propenyl)oxy]-

LC50 > 100 mg/l

Species: Oncorhynchus mykiss (rainbow trout)

Exposure duration: 96 h

Method: OECD Test Guideline 203

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

nonylphenol, branched and linear, ethoxylated (with average molecular weight $\leq 1\,540$ g/mol) [includes ortho-, meta-, para-isomers or any combination thereof]

LC50 0,323 mg/l

Species: Pimephales promelas (fathead minnow)

Exposure duration: 96 h

Studies of a comparable product.

Chronic Fish toxicity

Ethoxylated nonyl phenol acrylate

No data available, supplier information

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

No data available.

Poly(oxy-1,2-ethanediyl), alpha, alpha-[(1-methylethylidene)di-4,1-phenylene]bis[omega -[(1-oxo-2-propenyl)oxy]-

No data available.

3-Trimethoxysilylpropane-1-thiol

No data available.

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nonylphenol, branched and linear, ethoxylated (with average molecular weight $\leq 1\,540$ g/mol) [includes ortho-, meta-, para-isomers or any combination thereof]

NOEC (Growth inhibition) 6 µg/l

Species: Fish

Exposure duration: 91 d

Studies of a comparable product.

Acute toxicity for daphnia

Ethoxylated nonyl phenol acrylate

No data available, supplier information

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

Poly(oxy-1,2-ethanediyl), alpha, alpha-[(1-methylethylidene)di-4,1-phenylene]bis[omega -[(1-oxo-2-propenyl)oxy]-

EC50 6 mg/l

Species: Daphnia magna (Water flea)

Exposure duration: 48 h

Method: OECD Test Guideline 202

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

nonylphenol, branched and linear, ethoxylated (with average molecular weight $\leq 1\,540$ g/mol) [includes ortho-, meta-, para-isomers or any combination thereof]

LC50 0,716 mg/l

Species: Ceriodaphnia dubia

Exposure duration: 48 h

Studies of a comparable product.

Chronic toxicity to daphnia

Ethoxylated nonyl phenol acrylate

No data available, supplier information

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

No data available.

Poly(oxy-1,2-ethanediyl), alpha, alpha-[(1-methylethylidene)di-4,1-phenylene]bis[omega -[(1-oxo-2-propenyl)oxy]-

EC10 11,3 µg/l

Species: Daphnia magna (Water flea)

Exposure duration: 21 d

Method: OECD Test Guideline 211

3-Trimethoxysilylpropane-1-thiol

No data available.

nonylphenol, branched and linear, ethoxylated (with average molecular weight $\leq 1\,540$ g/mol) [includes ortho-, meta-, para-isomers or any combination thereof]

NOEC (Reproduction) 100 µg/l

Species: Daphnia magna (Water flea)

Exposure duration: 21 d

Method: OECD Test Guideline 211

Studies of a comparable product.

Acute toxicity for algae

Ethoxylated nonyl phenol acrylate

No data available, supplier information

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

EC50 > 2,01 mg/l

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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

Poly(oxy-1,2-ethanediyl), alpha, alpha-[(1-methylethylidene)di-4,1-phenylene]bis[omega
-[(1-oxo-2-propenyl)oxy]-
EC50 > 100 mg/l
Species: *Pseudokirchneriella subcapitata* (green algae)
Method: OECD Test Guideline 201

EC10 > 100 mg/l
Species: *Pseudokirchneriella subcapitata* (green algae)
Method: OECD Test Guideline 201

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

nonylphenol, branched and linear, ethoxylated (with average molecular weight $\leq 1\,540$ g/mol) [includes ortho-, meta-, para-isomers or any combination thereof]
EC10 1,22 mg/l
endpoint: Growth inhibition
Species: *Pseudokirchneriella subcapitata* (green algae)
Exposure duration: 72 h
Method: OECD Test Guideline 201
Studies of a comparable product.

Acute bacterial toxicity

Ethoxylated nonyl phenol acrylate
No data available, supplier information

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide
EC50 > 1.000 mg/l
Species: activated sludge
Method: OECD Test Guideline 209

Poly(oxy-1,2-ethanediyl), alpha, alpha-[(1-methylethylidene)di-4,1-phenylene]bis[omega
-[(1-oxo-2-propenyl)oxy]-
NOEC 14,3 mg/l
Species: activated sludge
Method: OECD Test Guideline 301 B

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

nonylphenol, branched and linear, ethoxylated (with average molecular weight $\leq 1\,540$ g/mol) [includes ortho-, meta-, para-isomers or any combination thereof]
EC20 > 1.000 mg/l
Species: activated sludge
Exposure duration: 3 h
Method: OECD Test Guideline 209
Studies of a comparable product.

Ecotoxicology Assessment

Ethoxylated nonyl phenol acrylate

Acute aquatic toxicity: no data available

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

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.

Poly(oxy-1,2-ethanediyl), alpha, alpha-[(1-methylethylidene)di-4,1-phenylene]bis[omega-[(1-oxo-2-propenyl)oxy]-

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

Chronic aquatic toxicity: Very toxic 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.

nonylphenol, branched and linear, ethoxylated (with average molecular weight $\leq 1\,540$ g/mol) [includes ortho-, meta-, para-isomers or any combination thereof]

Acute aquatic toxicity: Very toxic to aquatic life.

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

M-Factor

Poly(oxy-1,2-ethanediyl), alpha, alpha-[(1-methylethylidene)di-4,1-phenylene]bis[omega-[(1-oxo-2-propenyl)oxy]-

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

nonylphenol, branched and linear, ethoxylated (with average molecular weight $\leq 1\,540$ g/mol) [includes ortho-, meta-, para-isomers or any combination thereof]

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

M-factor (chron. aquat. tox.): 10

12.2 Persistence and degradability**Biodegradability**

Ethoxylated nonyl phenol acrylate

No data available, supplier information

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

Poly(oxy-1,2-ethanediyl), alpha, alpha-[(1-methylethylidene)di-4,1-phenylene]bis[omega-[(1-oxo-2-propenyl)oxy]-

i.e. not readily biodegradable (10 day time window criterion is not met)

Method: OECD Test Guideline 301 D

i.e. not readily biodegradable (10 day time window criterion is not met)

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

nonylphenol, branched and linear, ethoxylated (with average molecular weight $\leq 1\,540$ g/mol) [includes ortho-, meta-, para-isomers or any combination thereof]

Biodegradation: 58,7 %, 35 d, i.e. not readily degradable

Method: OECD Test Guideline 301 B

Studies of a comparable product.

12.3 Bioaccumulative potential

Bioaccumulation

Ethoxylated nonyl phenol acrylate

No data available, supplier information

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

Bioconcentration factor (BCF): 18 - 22

Species: Cyprinus carpio (Carp)

Exposure duration: 8 Weeks

Poly(oxy-1,2-ethanediyl), alpha, alpha-[(1-methylethylidene)di-4,1-phenylene]bis[omega-[(1-oxo-2-propenyl)oxy]-

Bioconcentration factor (BCF): 0,84

Due to the low n-octanol-water partition coefficient, an accumulation in organisms is not to be expected.

3-Trimethoxysilylpropane-1-thiol

no data available

nonylphenol, branched and linear, ethoxylated (with average molecular weight $\leq 1\,540$ g/mol) [includes ortho-, meta-, para-isomers or any combination thereof]

no data available

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

This substance/mixture contains components considered to have endocrine disrupting properties for environment, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

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**

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14.1 UN number or ID number : UN 3082
 14.2 UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Ethoxylated Isononylphenol)
 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. (Ethoxylated Isononylphenol)
 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. (Ethoxylated Isononylphenol)
 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. (Ethoxylated Isononylphenol)
 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

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, 46

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

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Ethoxylated nonyl phenol acrylate
CAS-No.: 678991-31-6, EC-No.: 614-163-6
Subject to REACH Annex XVII, No. 3

nonylphenol, branched and linear, ethoxylated (with average molecular weight $\leq 1\,540$ g/mol) [includes ortho-, meta-, para-isomers or any combination thereof]
CAS-No.: 68412-54-4, EC-No.: 500-209-1
Subject to REACH Annex XVII, No. 46

Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals

This product is subject to Regulation (EU) No 649/2012. It contains:

nonylphenol, branched and linear, ethoxylated (with average molecular weight $\leq 1\,540$ g/mol) [includes ortho-, meta-, para-isomers or any combination thereof]
CAS-No.: 68412-54-4, EC-No.: 500-209-1

TA Luft List (Germany)

Type: 5.2.1 Total dust

Fraction of other substances: 0,05 %

Type: 5.2.4 Inorganic substances in gaseous form
portion Class 3: < 0,01 %

Type: 5.2.7.1.1 Carcinogenic substance
portion Class 1: < 0,01 %

Type: 5.2.5 Organic Substances
portion Class 1: 1,79 %

Fraction of other substances: 98,09 %

Water contaminating class (Germany)

2 obviously hazardous to water

Classification according to AwSV, Annex 1 (5.2)

Other regulations

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

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

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:

Poly(oxy-1,2-ethanediyl), alpha, alpha-[(1-methylethylidene)di-4,1-phenylene]bis[omega -[(1-oxo-2-propenyl)oxy]-

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.

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H360F	May damage fertility.
H360Fd	May damage fertility. 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.

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:

Skin Irrit. 2 H315

Eye Irrit. 2 H319

Skin Sens. 1 H317

Repr. 1B H360F

Aquatic Chronic 2 H411

Classification procedure:

Calculation method

Calculation method

Calculation method

Calculation method

Calculation method

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