

## SAFETY DATA SHEET (SDS)



**Manufacturer:**  
Covestro

**Product Name:**  
Covestro Desolite® DP-1021 Primary Optical Fiber Coating, UV Cure (10 kg)

**Manufacturer Part Number:**  
COV-DP-1021-10KG

▶ Click here for more details on the Covestro Desolite® DP-1021 Primary Optical Fiber Coating, UV Cure (10 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

This document is formatted for A4 paper size

*Data is subject to change without notice.*

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

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## DeSolite DP-1021

Version 3.0

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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



#### 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/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) |

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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:<br>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:<br>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:<br>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 <sup>3</sup> 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 <sup>2</sup> /s at 20 °C<br>> 20,5 mm <sup>2</sup> /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.



## DeSolite DP-1021

Version 3.0

Revision Date 15.08.2025

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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

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.