

Safety Data Sheet according to (EC) No 1907/2006 as amended

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LOCTITE 561

SDS No. : 153640 V008.0 Revision: 09.12.2021 printing date: 10.12.2021 Replaces version from: 15.06.2021

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

1.1. Product identifier

LOCTITE 561

- **1.2. Relevant identified uses of the substance or mixture and uses advised against** Intended use: Sealant
- 1.3. Details of the supplier of the safety data sheet

Henkel Ltd Adhesives Wood Lane End HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 (1442) 278000 Fax-no.: +44 (1442) 278071

ua-productsafety.uk@henkel.com

For Safety Data Sheet updates please visit our website https://mysds.henkel.com/index.html#/appSelection or www.henkel-adhesives.com.

1.4. Emergency telephone number

24 Hours Emergency Tel: +44 (0)1442 278497

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

Skin sensitizerH317 May cause an allergic skin reaction.Chronic hazards to the aquatic environmentH412 Harmful to aquatic life with long lasting effects.

Category 3

Category 1

2.2. Label elements

Label elements (CLP):

Hazard pictogram:



Contains

Diamid wax mixture

| Signal word: | Warning |
|--|--|
| Hazard statement: | H317 May cause an allergic skin reaction. H412 Harmful to aquatic life with long lasting effects. |
| Supplemental information | EUH212 Warning! Hazardous respirable dust may be formed when used. Do not breathe dust. |
| Precautionary statement: Prevention | P273 Avoid release to the environment. P280 Wear protective gloves. |
| Precautionary statement: Response | P333+P313 If skin irritation or rash occurs: Get medical advice/attention. |

2.3. Other hazards

None if used properly. Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General chemical description: Anaerobic Sealant

Declaration of the ingredients according to CLP (EC) No 1272/2008:

| Hazardous components CAS-No. | EC Number REACH-Reg No. | content | Classification |
|--|-------------------------------|--------------|--|
| Diamid wax mixture | 430-050-2 | 5- < 10 % | Aquatic Chronic 2 H411 Skin Sens. 1 H317 |
| Ethoxylated bisphenol A dimethacrylate esters 41637-38-1 | 609-946-4 01-2119980659-17 | 5-< 10 % | Aquatic Chronic 4 H413 |
| Ethane-1,2-diol 107-21-1 | 203-473-3 01-2119456816-28 | 1-< 5% | Acute Tox. 4; Oral H302 STOT RE 2; Oral H373 |
| Titanium dioxide 13463-67-7 | 236-675-5 01-2119489379-17 | 1-< 5% | Carc. 2; Inhalation H351 |
| Cumene hydroperoxide 80-15-9 | 201-254-7 01-2119475796-19 | 0,1- < 1 % | STOT RE 2 H373 Skin Corr. 1B H314 Acute Tox. 2; Inhalation H330 Aquatic Chronic 2 H411 Acute Tox. 4; Oral H302 Acute Tox. 4; Dermal H312 Org. Perox. E H242 STOT SE 3 H335 |
| N,N-Diethyl-p-toluidine 613-48-9 | 210-345-0 | 0,1-< 1 % | Acute Tox. 3; Oral H301 Acute Tox. 3; Dermal H311 Acute Tox. 3; Inhalation H331 STOT RE 2 H373 Aquatic Chronic 3 H412 |
| 1,4-Naphthalenedione 130-15-4 | 204-977-6 | 0,01-< 0,1 % | Acute Tox. 3; Oral H301 Skin Corr. 1C H314 Skin Sens. 1 H317 Eye Dam. 1 H318 Acute Tox. 1; Inhalation H330 STOT SE 3 H335 Aquatic Acute 1 H400 Aquatic Chronic 1 H410 M factor (Acute Aquat Tox): 10 |

For full text of the H - statements and other abbreviations see section 16 "Other information". Substances without classification may have community workplace exposure limits available.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Move to fresh air. If symptoms persist, seek medical advice.

Skin contact: Rinse with running water and soap. Obtain medical attention if irritation persists.

Eye contact:

Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

Ingestion:

Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Prolonged or repeated contact may cause eye irritation.

SKIN: Rash, Urticaria.

4.3. Indication of any immediate medical attention and special treatment needed

See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: water, carbon dioxide, foam, powder

Extinguishing media which must not be used for safety reasons:

High pressure waterjet

5.2. Special hazards arising from the substance or mixture

In the event of a fire, carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx) can be released.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

Additional information:

In case of fire, keep containers cool with water spray.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Wear protective equipment. Ensure adequate ventilation. Keep away from sources of ignition.

6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

6.3. Methods and material for containment and cleaning up

Dispose of contaminated material as waste according to Section 13. Scrape up as much material as possible. Sweep up spilled material. Avoid creating dust. Store in a partly filled, closed container until disposal.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling Avoid skin and eye contact. See advice in section 8

Hygiene measures:

Wash hands before work breaks and after finishing work. Do not eat, drink or smoke while working. Good industrial hygiene practices should be observed.

7.2. Conditions for safe storage, including any incompatibilities

Refer to Technical Data Sheet

7.3. Specific end use(s) Sealant

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for

Great Britain

| Ingredient [Regulated substance] | ient [Regulated substance] ppm mg/m ³ Value type | | Short term exposure limit category / Remarks | Regulatory list | |
|---|---|-----|--|-----------------------------------|----------|
| Silicon dioxide 112945-52-5 [SILICA, AMORPHOUS, INHALABLE DUST] | | 6 | Time Weighted Average (TWA): | | EH40 WEL |
| Silicon dioxide 112945-52-5 [SILICA, AMORPHOUS, RESPIRABLE DUST] | | 2,4 | Time Weighted Average (TWA): | | EH40 WEL |
| Silicon dioxide 112945-52-5 [Dust, respirable dust] | | 4 | Time Weighted Average (TWA): | | EH40 WEL |
| Silicon dioxide 112945-52-5 [Dust, inhalable dust] | | 10 | Time Weighted Average (TWA): | | EH40 WEL |
| Ethane-1,2-diol 107-21-1 [ETHANE-1,2-DIOL, PARTICULATE] | | 10 | Time Weighted Average (TWA): | | EH40 WEL |
| Ethane-1,2-diol 107-21-1 [ETHANE-1,2-DIOL, VAPOUR] | 20 | 52 | Time Weighted Average (TWA): | | EH40 WEL |
| Ethane-1,2-diol 107-21-1 [ETHANE-1,2-DIOL, PARTICULATE] | | | Skin designation: | Can be absorbed through the skin. | EH40 WEL |
| Ethane-1,2-diol 107-21-1 [ETHANE-1,2-DIOL, VAPOUR] | | | Skin designation: | Can be absorbed through the skin. | EH40 WEL |
| Ethane-1,2-diol 107-21-1 [ETHYLENE GLYCOL] | 40 | 104 | Short Term Exposure Limit (STEL): | Indicative | ECTLV |
| Ethane-1,2-diol 107-21-1 [ETHYLENE GLYCOL] | 20 | 52 | Time Weighted Average (TWA): | Indicative | ECTLV |
| Ethane-1,2-diol 107-21-1 [ETHANE-1,2-DIOL, VAPOUR] | 40 | 104 | Short Term Exposure Limit (STEL): | 15 minutes | EH40 WEL |
| Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE, RESPIRABLE] | | 4 | Time Weighted Average (TWA): | | EH40 WEL |
| Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE, TOTAL INHALABLE] | | 10 | Time Weighted Average (TWA): | | EH40 WEL |
| Ethene, homopolymer 9002-88-4 [DUST, INHALABLE DUST] | | 10 | Time Weighted Average (TWA): | | EH40 WEL |
| Ethene, homopolymer 9002-88-4 [DUST, RESPIRABLE DUST] | | 4 | Time Weighted Average (TWA): | | EH40 WEL |

Occupational Exposure Limits

Valid for

Ireland

| Ingredient [Regulated substance] | ррт | mg/m ³ | | Short term exposure limit category / Remarks | Regulatory list |
|---|-----|-------------------|------------------------------|--|-----------------|
| Silicon dioxide 112945-52-5 [SILICA, AMORPHOUS] | | 6 | Time Weighted Average (TWA): | | IR_OEL |
| Silicon dioxide 112945-52-5 [SILICA, AMORPHOUS] | | 2,4 | Time Weighted Average (TWA): | | IR_OEL |

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| Silicon dioxide | | 10 | Time Weighted Average | | IR_OEL |
|--|----|------|------------------------------|-----------------------------|--------|
| 112945-52-5 [DUSTS NON-SPECIFIC] | | | (TWA): | | |
| Silicon dioxide | | 4 | Time Weishted Assesses | | ID OFI |
| 112945-52-5 | | 4 | Time Weighted Average (TWA): | | IR_OEL |
| [DUSTS NON-SPECIFIC] | | | (1 wA): | | |
| . , | 10 | 10.4 | | x 1 | DOTIN |
| Ethane-1,2-diol | 40 | 104 | Short Term Exposure | Indicative | ECTLV |
| 107-21-1 | | | Limit (STEL): | | |
| [ETHYLENE GLYCOL] | 20 | 52 | | Indicative | DOTI M |
| Ethane-1,2-diol 107-21-1 | 20 | 52 | Time Weighted Average | Indicative | ECTLV |
| [ETHYLENE GLYCOL] | | | (TWA): | | |
| | | 20 | | Indicative OELV | |
| Ethane-1,2-diol 107-21-1 | | 20 | Time Weighted Average (TWA): | Indicative OELV | IR_OEL |
| | | | (1 wA): | | |
| [ETHANE-1,2-DIOL, VAPOUR] Ethane-1,2-diol | 20 | 52 | Time Weisherd Assessed | Indicative OELV | IR OEL |
| 107-21-1 | 20 | 52 | Time Weighted Average (TWA): | Indicative OEL V | IR_OEL |
| [ETHANE-1,2-DIOL] | | | (1 wA): | | |
| Ethane-1,2-diol | | | Skin designation: | Can be absorbed through the | IR OEL |
| 107-21-1 | | | Skill designation: | skin. | IK_OEL |
| [ETHANE-1,2-DIOL] | | | | SKIII. | |
| Ethane-1,2-diol | 40 | 104 | Short Term Exposure | 15 minutes | IR OEL |
| 107-21-1 | 40 | 104 | Limit (STEL): | Indicative OELV | IK_OEL |
| [Ethane-1,2-diol] | | | Linin (STEL). | Indicative OEE V | |
| Titanium dioxide | | 10 | Time Weighted Average | | IR OEL |
| 13463-67-7 | | 10 | (TWA): | | IK_OEL |
| [TITANIUM DIOXIDE] | | | (1 WA). | | |
| Titanium dioxide | | 4 | Time Weighted Average | | IR_OEL |
| 13463-67-7 | | 4 | (TWA): | | IK_OEL |
| [TITANIUM DIOXIDE] | | | (1 WA). | | |
| Ethene, homopolymer | | 10 | Time Weighted Average | | IR_OEL |
| 9002-88-4 | | 10 | (TWA): | | IK_OEL |
| [DUSTS NON-SPECIFIC] | | | (1 11/1). | | |
| Ethene, homopolymer | | 4 | Time Weighted Average | | IR OEL |
| 9002-88-4 | | 4 | (TWA): | | IK_OEL |
| [DUSTS NON-SPECIFIC] | | | (1 11/1). | | |
| | I | | | | |

Predicted No-Effect Concentration (PNEC):

| Name on list | Environmental Compartment | Exposure period | Value | | Remarks | | |
|--|------------------------------------|--------------------|-----------------|-----|----------------|--------|-------------------------------------|
| | F | periou | mg/l | ppm | mg/kg | others | |
| Bisphenol A, 2-EO dimethacrylate 41637-38-1 | aqua (freshwater) | | | | | | no hazard identified |
| Bisphenol A, 2-EO dimethacrylate 41637-38-1 | aqua (marine water) | | | | | | no hazard identified |
| Bisphenol A, 2-EO dimethacrylate 41637-38-1 | sewage treatment plant (STP) | | | | | | no hazard identified |
| Bisphenol A, 2-EO dimethacrylate 41637-38-1 | sediment (freshwater) | | | | | | |
| Bisphenol A, 2-EO dimethacrylate 41637-38-1 | sediment (marine water) | | | | | | |
| Bisphenol A, 2-EO dimethacrylate 41637-38-1 | Air | | | | | | no hazard identified |
| Bisphenol A, 2-EO dimethacrylate 41637-38-1 | soil | | | | | | |
| Bisphenol A, 2-EO dimethacrylate 41637-38-1 | Predator | | | | | | |
| Ethane-1,2-diol 107-21-1 | aqua (freshwater) | | 10 mg/l | | | | |
| Ethane-1,2-diol 107-21-1 | aqua (marine water) | | 1 mg/l | | | | |
| Ethane-1,2-diol 107-21-1 | aqua (intermittent releases) | | 10 mg/l | | | | |
| Ethane-1,2-diol 107-21-1 | sewage treatment plant (STP) | | 199,5 mg/l | | | | |
| Ethane-1,2-diol 107-21-1 | sediment (freshwater) | | | | 37 mg/kg | | |
| Ethane-1,2-diol 107-21-1 | sediment (marine water) | | | | 3,7 mg/kg | | |
| Ethane-1,2-diol 107-21-1 | Air | | | | | | no hazard identified |
| Ethane-1,2-diol 107-21-1 | Soil | | | | 1,53 mg/kg | | |
| Ethane-1,2-diol 107-21-1 | Predator | | | | | | no potential for bioaccumulation |
| Titanium dioxide 13463-67-7 | aqua (freshwater) | | | | | | no hazard identified |
| Titanium dioxide 13463-67-7 | aqua (marine water) | | | | | | no hazard identified |
| Titanium dioxide 13463-67-7 | sewage treatment plant (STP) | | | | | | no hazard identified |
| Titanium dioxide 13463-67-7 | sediment (freshwater) | | | | | | no hazard identified |
| Titanium dioxide 13463-67-7 | sediment (marine water) | | | | | | no hazard identified |
| Titanium dioxide 13463-67-7 | Soil | | | | | | no hazard identified |
| Titanium dioxide 13463-67-7 | Aquatic (intermit. releases) | | | | | | no hazard identified |
| Titanium dioxide 13463-67-7 | Predator | | | | | | no hazard identified |
| .alpha.,.alphaDimethylbenzyl hydroperoxide 80-15-9 | aqua (freshwater) | | 0,0031 mg/l | | | | |
| .alpha.,.alphaDimethylbenzyl hydroperoxide 80-15-9 | aqua (marine water) | | 0,00031 mg/l | | | | |
| .alpha.,alphaDimethylbenzyl hydroperoxide 80-15-9 | aqua (intermittent releases) | | 0,031 mg/l | | | | |
| .alpha.,.alphaDimethylbenzyl hydroperoxide 80-15-9 | Sewage treatment plant | | 0,35 mg/l | | | | |
| .alpha.,.alphaDimethylbenzyl hydroperoxide | sediment (freshwater) | | | | 0,023 mg/kg | | |

| 80-15-9 | 1 | | | |
|--|----------------------------|--|-----------------|--|
| .alpha.,.alphaDimethylbenzyl hydroperoxide 80-15-9 | sediment (marine water) | | 0,0023 mg/kg | |
| .alpha.,.alphaDimethylbenzyl hydroperoxide 80-15-9 | Soil | | 0,0029 mg/kg | |

Derived No-Effect Level (DNEL):

| Name on list | Application Area | Route of | Health Effect | Exposure Time | Value | Remarks |
|--|-----------------------|------------------------|---|-------------------------------|------------|----------------------|
| Bisphenol A, 2-EO dimethacrylate 41637-38-1 | Workers | Exposure inhalation | Long term exposure - systemic effects | Time | 3,52 mg/m3 | no hazard identified |
| Bisphenol A, 2-EO dimethacrylate 41637-38-1 | Workers | dermal | Long term exposure - systemic effects | | 2 mg/kg | no hazard identified |
| Bisphenol A, 2-EO dimethacrylate 41637-38-1 | General population | inhalation | Long term exposure - systemic effects | | 0,87 mg/m3 | no hazard identified |
| Bisphenol A, 2-EO dimethacrylate 41637-38-1 | General population | dermal | Long term exposure - systemic effects | | 1 mg/kg | no hazard identified |
| Bisphenol A, 2-EO dimethacrylate 41637-38-1 | General population | oral | Long term exposure - systemic effects | Long term exposure - | | no hazard identified |
| Ethane-1,2-diol 107-21-1 | Workers | dermal | Long term exposure - systemic effects | | 106 mg/kg | no hazard identified |
| Ethane-1,2-diol 107-21-1 | Workers | inhalation | Long term exposure - local effects | Long term exposure - local | | no hazard identified |
| Ethane-1,2-diol 107-21-1 | General population | dermal | Long term exposure - systemic effects | | 53 mg/kg | no hazard identified |
| Ethane-1,2-diol 107-21-1 | General population | inhalation | Long term exposure - local effects | | 7 mg/m3 | no hazard identified |
| .alpha.,.alphaDimethylbenzyl hydroperoxide 80-15-9 | Workers | inhalation | Long term exposure - systemic effects | | 6 mg/m3 | |

Biological Exposure Indices:

None

8.2. Exposure controls:

Engineering controls: Ensure good ventilation/extraction.

Respiratory protection: Ensure adequate ventilation. An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area Dust mask, P2 particle filter.

Hand protection:

Chemical-resistant protective gloves (EN 374).

Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:

Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing. Protective eye equipment should conform to EN166.

Skin protection:

Wear suitable protective clothing.

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Appearance | waxy Off white |
|--|------------------------------------|
| Odor | mild |
| Odour threshold | No data available / Not applicable |
| | |
| pH | 6 - 8 |
| (20 °C (68 °F); Conc.: 100 %) | |
| Melting point | No data available / Not applicable |
| Solidification temperature | No data available / Not applicable |
| Initial boiling point | > 150 °C (> 302 °F) |
| Flash point | Not applicable |
| Evaporation rate | No data available / Not applicable |
| Flammability | No data available / Not applicable |
| Explosive limits | No data available / Not applicable |
| Vapour pressure | < 13 mbar |
| (25 °C (77 °F)) | |
| Relative vapour density: | No data available / Not applicable |
| Density | 1,14 g/cm3 |
| 0 | |
| Bulk density | No data available / Not applicable |
| Solubility | No data available / Not applicable |
| Solubility (qualitative) | Slight |
| (Solvent: Water) | |
| Partition coefficient: n-octanol/water | No data available / Not applicable |
| Auto-ignition temperature | No data available / Not applicable |
| Decomposition temperature | No data available / Not applicable |
| Viscosity | No data available / Not applicable |
| Viscosity (kinematic) | No data available / Not applicable |
| Explosive properties | No data available / Not applicable |
| Oxidising properties | No data available / Not applicable |
| | |

9.2. Other information

No data available / Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with strong oxidants. Acids. Reducing agents. Strong bases.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

Stable under normal conditions of storage and use.

10.5. Incompatible materials

See section reactivity.

10.6. Hazardous decomposition products

carbon oxides. Hydrocarbons nitrogen oxides Rapid polymerisation may generate excessive heat and pressure.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity:

| Hazardous substances | Value | Value | Species | Method |
|--|--|---------------|---------|--|
| CAS-No. | type | | | |
| Diamid wax mixture | LD50 | > 2.000 mg/kg | rat | not specified |
| Ethoxylated bisphenol A dimethacrylate esters 41637-38-1 | LD50 | > 2.000 mg/kg | rat | OECD Guideline 423 (Acute Oral toxicity) |
| Ethane-1,2-diol 107-21-1 | Acute toxicity estimate (ATE) | 500 mg/kg | | Expert judgement |
| Ethane-1,2-diol 107-21-1 | LD50 | 7.712 mg/kg | rat | not specified |
| Titanium dioxide 13463-67-7 | LD50 | > 5.000 mg/kg | rat | OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure) |
| Cumene hydroperoxide 80-15-9 | LD50 | 382 mg/kg | rat | other guideline: |
| 1,4-Naphthalenedione 130-15-4 | LD50 | 124 mg/kg | rat | equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) |

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Species | Method |
|--|--|--------------------|---------|--|
| Ethoxylated bisphenol A dimethacrylate esters 41637-38-1 | LD50 | > 2.000 mg/kg | rat | OECD Guideline 402 (Acute Dermal Toxicity) |
| Ethane-1,2-diol 107-21-1 | LD50 | 10.600 mg/kg | rabbit | not specified |
| Titanium dioxide 13463-67-7 | LD50 | >= 10.000 mg/kg | hamster | not specified |
| Cumene hydroperoxide 80-15-9 | Acute toxicity estimate (ATE) | 1.100 mg/kg | | Expert judgement |

Acute inhalative toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Test atmosphere | Exposure time | Species | Method |
|----------------------------------|---------------|-------------|-----------------|------------------|---------|---|
| Titanium dioxide 13463-67-7 | LC50 | > 6,82 mg/l | dust | 4 h | rat | not specified |
| Cumene hydroperoxide 80-15-9 | LC50 | 1,370 mg/l | vapour | 4 h | rat | not specified |
| 1,4-Naphthalenedione 130-15-4 | LC50 | 0,046 mg/l | dust/mist | 4 h | rat | OECD Guideline 403 (Acute Inhalation Toxicity) |

Skin corrosion/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result | Exposure time | Species | Method |
|--|----------------------------|------------------|---|---|
| Ethoxylated bisphenol A dimethacrylate esters 41637-38-1 | not irritating | 15 min | Human, EpiSkinTM (SM), Reconstructed Human Epidermis (RHE) | OECD Guideline 439 (In Vitro Skin Irritation: Reconstructed Human Epidermis (RHE) Test Method) |
| Ethane-1,2-diol 107-21-1 | not irritating | 20 h | rabbit | BASF Test |
| Titanium dioxide 13463-67-7 | not irritating | 4 h | rabbit | equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| Cumene hydroperoxide 80-15-9 | corrosive | | rabbit | Draize Test |
| 1,4-Naphthalenedione 130-15-4 | Category 1C (corrosive) | | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |

Serious eye damage/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result | Exposure time | Species | Method |
|--|----------------|------------------|----------------------------------|---|
| Ethoxylated bisphenol A dimethacrylate esters 41637-38-1 | not irritating | | Bovine, cornea, in vitro test | OECD Guideline 437 (BCOP) |
| Ethane-1,2-diol 107-21-1 | not irritating | | rabbit | BASF Test |
| Titanium dioxide 13463-67-7 | not irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |

Respiratory or skin sensitization:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances | Result | Test type | Species | Method |
|--|-----------------|---------------------------------------|------------|--|
| CAS-No. | | | _ | |
| Ethoxylated bisphenol A dimethacrylate esters 41637-38-1 | not sensitising | Mouse local lymphnode assay (LLNA) | mouse | OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |
| Ethane-1,2-diol 107-21-1 | not sensitising | Guinea pig maximisation test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |
| Titanium dioxide 13463-67-7 | not sensitising | Mouse local lymphnode assay (LLNA) | mouse | equivalent or similar to OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |
| 1,4-Naphthalenedione 130-15-4 | sensitising | not specified | guinea pig | not specified |

Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result | Type of study / Route of administration | Metabolic activation / Exposure time | Species | Method |
|--|----------|--|--|---------|--|
| Ethoxylated bisphenol A dimethacrylate esters 41637-38-1 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Ethoxylated bisphenol A dimethacrylate esters 41637-38-1 | negative | mammalian cell gene mutation assay | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| Ethoxylated bisphenol A dimethacrylate esters 41637-38-1 | negative | in vitro mammalian cell micronucleus test | with and without | | OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test) |
| Ethane-1,2-diol 107-21-1 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Titanium dioxide 13463-67-7 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Titanium dioxide 13463-67-7 | negative | in vitro mammalian chromosome aberration test | with and without | | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| Titanium dioxide 13463-67-7 | negative | mammalian cell gene mutation assay | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| Cumene hydroperoxide 80-15-9 | positive | bacterial reverse mutation assay (e.g Ames test) | without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |

Carcinogenicity

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous components CAS-No. | Result | Route of application | Exposure time / Frequency of treatment | Species | Sex | Method |
|---------------------------------|------------------|----------------------|---|---------|-------------|--|
| Titanium dioxide 13463-67-7 | not carcinogenic | inhalation | 24 m 6 h/d; 5 d/w | rat | male/female | OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies) |

Reproductive toxicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result / Value | Test type | Route of application | Species | Method |
|--|---|-----------|----------------------|---------|---|
| Ethoxylated bisphenol A dimethacrylate esters 41637-38-1 | NOAEL P 1.000 mg/kg NOAEL F1 1.000 mg/kg | screening | oral: gavage | rat | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| Titanium dioxide 13463-67-7 | NOAEL P > 1.000 mg/kg NOAEL F1 > 1.000 mg/kg | | oral: gavage | rat | OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test) |

STOT-single exposure:

No data available.

STOT-repeated exposure::

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances | Result / Value | Route of | Exposure time / | Species | Method |
|-------------------------|-------------------|--------------|-----------------|---------|---------------------------|
| CAS-No. | | application | Frequency of | | |
| | | | treatment | | |
| Ethoxylated bisphenol A | NOAEL 1.000 mg/kg | oral: gavage | 13 weeks | rat | OECD Guideline 408 |
| dimethacrylate esters | | | daily | | (Repeated Dose 90-Day |
| 41637-38-1 | | | | | Oral Toxicity in Rodents) |
| Ethane-1,2-diol | NOAEL 150 mg/kg | oral: feed | 16 w | rat | OECD Guideline 408 |
| 107-21-1 | | | daily | | (Repeated Dose 90-Day |
| | | | | | Oral Toxicity in Rodents) |
| Titanium dioxide | NOAEL 1.000 mg/kg | oral: gavage | 90 d | rat | OECD Guideline 408 |
| 13463-67-7 | | | daily | | (Repeated Dose 90-Day |
| | | | | | Oral Toxicity in Rodents) |
| Cumene hydroperoxide | | inhalation: | 6 h/d | rat | not specified |
| 80-15-9 | | aerosol | 5 d/w | | |

Aspiration hazard:

No data available.

SECTION 12: Ecological information

General ecological information:

Do not empty into drains / surface water / ground water.

12.1. Toxicity

Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances | Value | Value | Exposure time | Species | Method |
|--|-------|--------------------------------|---------------|---------------------|--|
| CAS-No. | type | | | | |
| Diamid wax mixture | LC50 | > 0,2 mg/l | 96 h | carp | not specified |
| Ethoxylated bisphenol A dimethacrylate esters 41637-38-1 | LL50 | Toxicity > Water solubility | 96 h | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Ethane-1,2-diol 107-21-1 | LC50 | 72.860 mg/l | 96 h | Pimephales promelas | EPA-660 (Methods for Acute Toxicity Tests with Fish, Macroinvertebrates and Amphibians) |
| Ethane-1,2-diol 107-21-1 | NOEC | 15.380 mg/l | 7 d | Pimephales promelas | other guideline: |
| Titanium dioxide 13463-67-7 | LC50 | Toxicity > Water solubility | 48 h | Leuciscus idus | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Cumene hydroperoxide 80-15-9 | LC50 | 3,9 mg/l | 96 h | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| 1,4-Naphthalenedione 130-15-4 | LC50 | 0,045 mg/l | 96 h | Oryzias latipes | OECD Guideline 203 (Fish, Acute Toxicity Test) |

Toxicity (Daphnia):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|--|---------------|--------------------------------|---------------|---------------|--|
| Diamid wax mixture | EL50 | 15,63 - 250 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Ethoxylated bisphenol A dimethacrylate esters 41637-38-1 | EL50 | Toxicity > Water solubility | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Ethane-1,2-diol 107-21-1 | EC50 | > 100 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Titanium dioxide 13463-67-7 | EC50 | Toxicity > Water solubility | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Cumene hydroperoxide 80-15-9 | EC50 | 18,84 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| 1,4-Naphthalenedione 130-15-4 | EC50 | 0,026 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |

Chronic toxicity to aquatic invertebrates

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances | Value | Value | Exposure time | Species | Method |
|-------------------------|-------|------------------|---------------|--------------------|---------------------------|
| CAS-No. | type | | | | |
| Diamid wax mixture | NOEC | 0,9 mg/l | 21 day | Daphnia magna | OECD 211 (Daphnia |
| | | - | - | | magna, Reproduction Test) |
| Ethoxylated bisphenol A | NOEC | Toxicity > Water | 48 day | Daphnia magna | OECD 211 (Daphnia |
| dimethacrylate esters | | solubility | | | magna, Reproduction Test) |
| 41637-38-1 | | | | | |
| Ethane-1,2-diol | NOEC | 8.590 mg/l | 7 d | Ceriodaphnia dubia | other guideline: |
| 107-21-1 | | | | | |

| Hazardous substances | Value | Value | Exposure time | Species | Method |
|-------------------------------------|-------|-----------------------|---------------|---------------------------------------|-------------------------------|
| CAS-No. | type | | - | • | |
| Diamid wax mixture | EC50 | 0,005 mg/l | 72 h | Skeletonema costatum | ISO 10253:2006 (Marine |
| | | | | | algal growth inhibition test) |
| Diamid wax mixture | NOEC | 0,003 mg/l | 72 h | Skeletonema costatum | ISO 10253:2006 (Marine |
| | | | | | algal growth inhibition test) |
| Ethoxylated bisphenol A | EL50 | Toxicity > Water | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, |
| dimethacrylate esters 41637-38-1 | | solubility | | | Growth Inhibition Test) |
| Ethoxylated bisphenol A | EL10 | Toxicity > Water | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, |
| dimethacrylate esters | | solubility | | | Growth Inhibition Test) |
| 41637-38-1 | | | | | |
| Ethane-1,2-diol | EC50 | > 6.500 - 13.000 mg/l | 96 h | Pseudokirchneriella subcapitata | |
| 107-21-1 | | | | | Growth Inhibition Test) |
| Ethane-1,2-diol | NOEC | > 100 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, |
| 107-21-1 | | | | | Growth Inhibition Test) |
| Titanium dioxide | EC50 | Toxicity > Water | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, |
| 13463-67-7 | | solubility | | | Growth Inhibition Test) |
| Cumene hydroperoxide | EC50 | 3,1 mg/l | 72 h | Desmodesmus subspicatus | OECD Guideline 201 (Alga, |
| 80-15-9 | | | | (reported as Scenedesmus subspicatus) | Growth Inhibition Test) |
| Cumene hydroperoxide | NOEC | 1 mg/l | 72 h | Desmodesmus subspicatus | OECD Guideline 201 (Alga, |
| 80-15-9 | | | | (reported as Scenedesmus | Growth Inhibition Test) |
| | | | | subspicatus) | |
| 1,4-Naphthalenedione | NOEC | 0,07 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, |
| 130-15-4 | | | | | Growth Inhibition Test) |
| 1,4-Naphthalenedione | EC50 | 0,42 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, |
| 130-15-4 | | | | | Growth Inhibition Test) |

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Toxicity to microorganisms

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances | Value | Value | Exposure time | Species | Method |
|------------------------------------|--------------|------------------|---------------|-------------------------------|------------------------------|
| CAS-No. Ethoxylated bisphenol A | type EC50 | Toxicity > Water | 3 h | activated sludge of a | OECD Guideline 209 |
| dimethacrylate esters | LC50 | solubility | 5 11 | predominantly domestic sewage | |
| 41637-38-1 | | | | | Respiration Inhibition Test) |
| Ethane-1,2-diol | EC20 | > 1.995 mg/l | 30 min | activated sludge, domestic | ISO 8192 (Test for |
| 107-21-1 | | | | | Inhibition of Oxygen |
| | | | | | Consumption by Activated |
| | | | | | Sludge) |
| Titanium dioxide | EC0 | Toxicity > Water | 24 h | Pseudomonas fluorescens | DIN 38412, part 8 |
| 13463-67-7 | | solubility | | | (Pseudomonas |
| | | | | | Zellvermehrungshemm- |
| | | | | | Test) |
| Cumene hydroperoxide 80-15-9 | EC10 | 70 mg/l | 30 min | | not specified |
| 1,4-Naphthalenedione | EC50 | 5,94 mg/l | 3 h | activated sludge of a | OECD Guideline 209 |
| 130-15-4 | | - | | predominantly domestic sewage | (Activated Sludge, |
| | | | | | Respiration Inhibition Test) |

12.2. Persistence and degradability

| Hazardous substances CAS-No. | Result | Test type | Degradability | Exposure time | Method |
|--|----------------------------|-----------|---------------|------------------|--|
| Diamid wax mixture | not readily biodegradable. | aerobic | 69,3 % | 28 day | OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test) |
| Ethoxylated bisphenol A dimethacrylate esters 41637-38-1 | not readily biodegradable. | aerobic | 24 % | 28 d | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test) |
| Ethane-1,2-diol 107-21-1 | readily biodegradable | aerobic | 90 - 100 % | 10 d | OECD Guideline 301 A (new version) (Ready Biodegradability: DOC Die Away Test) |
| Cumene hydroperoxide 80-15-9 | not readily biodegradable. | aerobic | 3 % | 28 d | OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test) |
| 1,4-Naphthalenedione 130-15-4 | not readily biodegradable. | aerobic | 0 % | 28 d | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |

12.3. Bioaccumulative potential

| Hazardous substances CAS-No. | Bioconcentratio n factor (BCF) | Exposure time | Temperature | Species | Method |
|---------------------------------|-----------------------------------|---------------|-------------|-------------|---------------------------------|
| Cumene hydroperoxide | 9,1 | | | calculation | OECD Guideline 305 |
| 80-15-9 | | | | | (Bioconcentration: Flow-through |
| | | | | | Fish Test) |

12.4. Mobility in soil

| Hazardous substances | LogPow | Temperature | Method |
|--|------------|-------------|--|
| CAS-No. | 51.55 | 25.00 | |
| Diamid wax mixture | 5,4 - 6,6 | 25 °C | EU Method A.8 (Partition Coefficient) |
| Ethoxylated bisphenol A dimethacrylate esters 41637-38-1 | 5,3 - 5,62 | | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method) |
| Ethane-1,2-diol 107-21-1 | -1,36 | | QSAR (Quantitative Structure Activity Relationship) |
| Cumene hydroperoxide 80-15-9 | 1,6 | 25 °C | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method) |
| 1,4-Naphthalenedione 130-15-4 | 1,71 | | not specified |

12.5. Results of PBT and vPvB assessment

| Hazardous substances | PBT / vPvB |
|---|--|
| CAS-No. | |
| Diamid wax mixture | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very |
| | Bioaccumulative (vPvB) criteria. |
| Ethoxylated bisphenol A dimethacrylate esters | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very |
| 41637-38-1 | Bioaccumulative (vPvB) criteria. |
| Ethane-1,2-diol | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very |
| 107-21-1 | Bioaccumulative (vPvB) criteria. |
| Titanium dioxide | According to Annex XIII of regulation (EC) 1907/2006 a PBT and vPvB assessment shall not |
| 13463-67-7 | be conducted for inorganic substances. |
| Cumene hydroperoxide | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very |
| 80-15-9 | Bioaccumulative (vPvB) criteria. |
| 1,4-Naphthalenedione | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very |
| 130-15-4 | Bioaccumulative (vPvB) criteria. |

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

Do not empty into drains / surface water / ground water. Dispose of in accordance with local and national regulations.

Disposal of uncleaned packages:

After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

Waste code

08 04 09* waste adhesives and sealants containing organic solvents and other dangerous substances

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

SECTION 14: Transport information

| 14.1. | UN number | | | |
|-------|------------------------------|---------------------|--|--|
| | ADR | Not dangerous goods | | |
| | RID | Not dangerous goods | | |
| | ADN | Not dangerous goods | | |
| | IMDG | Not dangerous goods | | |
| | IATA | Not dangerous goods | | |
| 14.2. | UN proper shipping name | | | |
| | ADR | Not dangerous goods | | |
| | RID | Not dangerous goods | | |
| | ADN | Not dangerous goods | | |
| | IMDG | Not dangerous goods | | |
| | IATA | Not dangerous goods | | |
| 14.3. | Transport hazard class(es) | | | |
| | ADR | Not dangerous goods | | |
| | RID | Not dangerous goods | | |
| | ADN | Not dangerous goods | | |
| | IMDG | Not dangerous goods | | |
| | IATA | Not dangerous goods | | |
| 14.4. | Packing group | | | |
| | ADR | Not dangerous goods | | |
| | RID | Not dangerous goods | | |
| | ADN | Not dangerous goods | | |
| | IMDG | Not dangerous goods | | |
| | IATA | Not dangerous goods | | |
| 14.5. | Environmental | hazards | | |
| | ADR | not applicable | | |
| | RID | not applicable | | |
| | ADN | not applicable | | |
| | IMDG | not applicable | | |
| | IATA | not applicable | | |
| 14.6. | Special precautions for user | | | |
| | ADR | not applicable | | |

| RID | not applicable |
|------|----------------|
| ADN | not applicable |
| IMDG | not applicable |
| IATA | not applicable |

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009): Prior Informed Consent (PIC) (Regulation (EU) No 649/2012): Persistent organic pollutants (Regulation (EU) 2019/1021):

Not applicable Not applicable Not applicable

VOC content (2010/75/EC) < 3 %

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text

of all abbreviations indicated by codes in this safety data sheet are as follows:

H242 Heating may cause a fire.

- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H311 Toxic in contact with skin.
- H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage. H330 Fatal if inhaled.
- H331 Toxic if inhaled.
- H331 TOXIC II IIIIlaied.
- H335 May cause respiratory irritation. H351 Suspected of causing cancer.
- H551 Suspected of causing cancer.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.
- H413 May cause long lasting harmful effects to aquatic life.

Further information:

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