



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

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LOCTITE MR 5922

SDS No. : 153784

V004.0

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

1.1. Product identifier

LOCTITE MR 5922

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):

Serious eye irritation

Category 2

H319 Causes serious eye irritation.

Skin sensitizer

Category 1

H317 May cause an allergic skin reaction.

2.2. Label elements

Label elements (CLP):

Hazard pictogram:



Contains

rosin

| | |
|--|--|
| Signal word: | Warning |
| Hazard statement: | H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. |
| Supplemental information | EUH212 Warning! Hazardous respirable dust may be formed when used. Do not breathe dust. |
| Precautionary statement: | "***" ***For consumer use only: P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P501 Dispose of contents/container in accordance with national regulation.*** |
| Precautionary statement: Prevention | P280 Wear protective gloves. |
| Precautionary statement: Response | P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P337+P313 If eye irritation persists: 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****Declaration of the ingredients according to CLP (EC) No 1272/2008:**

| Hazardous components CAS-No. | EC Number REACH-RegNo. | content | Classification |
|---------------------------------|-------------------------------|-----------|---|
| rosin 8050-09-7 | 232-475-7 01-2119480418-32 | 10- 20 % | Skin Sens. 1 H317 |
| Propan-2-ol 67-63-0 | 200-661-7 01-2119457558-25 | 10- 20 % | Flam. Liq. 2 H225 Eye Irrit. 2 H319 STOT SE 3 H336 |
| Titanium dioxide 13463-67-7 | 236-675-5 01-2119489379-17 | 1 - < 5 % | Carc. 2; Inhalation H351 |

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

SKIN: Rash, Urticaria.

EYE: Irritation, conjunctivitis.

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

See section: Description of first aid measures

SECTION 5: Fire fighting 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 (NO_x) 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.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Scrape up as much material as possible.

Sweep up spilled material. Avoid creating dust.

Store in a partly filled, closed container until disposal.

Dispose of contaminated material as waste according to Section 13.

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] | ppm | mg/m³ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|---|------------|-------------------------|-----------------------------------|---|------------------------|
| Kaolin 1332-58-7 [KAOLIN, RESPIRABLE DUST] | | 2 | Time Weighted Average (TWA): | | EH40 WEL |
| Rosin 8050-09-7 [ROSIN-BASED SOLDER FLUX FUME] | | 0,05 | Time Weighted Average (TWA): | | EH40 WEL |
| Rosin 8050-09-7 [ROSIN-BASED SOLDER FLUX FUME] | | 0,15 | Short Term Exposure Limit (STEL): | 15 minutes | EH40 WEL |
| Propan-2-ol 67-63-0 [PROPAN-2-OL] | 400 | 999 | Time Weighted Average (TWA): | | EH40 WEL |
| Propan-2-ol 67-63-0 [PROPAN-2-OL] | 500 | 1.250 | 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 |

Occupational Exposure LimitsValid for
Ireland

| Ingredient [Regulated substance] | ppm | mg/m³ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|--|------------|-------------------------|-----------------------------------|---|------------------------|
| Kaolin 1332-58-7 [KAOLIN] | | 2 | Time Weighted Average (TWA): | | IR_OEL |
| Rosin 8050-09-7 [ROSIN CORE SOLDER PYROLYSIS PRODUCTS] | | 0,05 | Time Weighted Average (TWA): | | IR_OEL |
| Rosin 8050-09-7 [ROSIN CORE SOLDER PYROLYSIS PRODUCTS] | | 0,15 | Short Term Exposure Limit (STEL): | 15 minutes | IR_OEL |
| Propan-2-ol 67-63-0 [ISOPROPYL ALCOHOL] | 200 | | Time Weighted Average (TWA): | | IR_OEL |
| Propan-2-ol 67-63-0 [ISOPROPYL ALCOHOL] | | | Skin designation: | Can be absorbed through the skin. | IR_OEL |
| Propan-2-ol 67-63-0 [ISOPROPYL ALCOHOL] | 400 | | Short Term Exposure Limit (STEL): | 15 minutes | IR_OEL |
| Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE] | | 10 | Time Weighted Average (TWA): | | IR_OEL |
| Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE] | | 4 | Time Weighted Average (TWA): | | IR_OEL |

Predicted No-Effect Concentration (PNEC):

| Name on list | Environmental Compartment | Exposure period | Value | | | | Remarks |
|--------------------------------|------------------------------------|--------------------|----------------|-----|----------------|--------|----------------------|
| | | | mg/l | ppm | mg/kg | others | |
| rosin 8050-09-7 | aqua (freshwater) | | 0,002 mg/l | | | | |
| rosin 8050-09-7 | aqua (marine water) | | 0,0002 mg/l | | | | |
| rosin 8050-09-7 | sediment (freshwater) | | | | 0,007 mg/kg | | |
| rosin 8050-09-7 | sediment (marine water) | | | | 0,001 mg/kg | | |
| rosin 8050-09-7 | Soil | | | | 0 mg/kg | | |
| rosin 8050-09-7 | sewage treatment plant (STP) | | 1000 mg/l | | | | |
| rosin 8050-09-7 | aqua (intermittent releases) | | 0,016 mg/l | | | | |
| Propan-2-ol 67-63-0 | aqua (freshwater) | | 140,9 mg/l | | | | |
| Propan-2-ol 67-63-0 | aqua (marine water) | | 140,9 mg/l | | | | |
| Propan-2-ol 67-63-0 | sediment (freshwater) | | | | 552 mg/kg | | |
| Propan-2-ol 67-63-0 | sediment (marine water) | | | | 552 mg/kg | | |
| Propan-2-ol 67-63-0 | Soil | | | | 28 mg/kg | | |
| Propan-2-ol 67-63-0 | aqua (intermittent releases) | | 140,9 mg/l | | | | |
| Propan-2-ol 67-63-0 | sewage treatment plant (STP) | | 2251 mg/l | | | | |
| Propan-2-ol 67-63-0 | oral | | | | 160 mg/kg | | |
| 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 |

Derived No-Effect Level (DNEL):

| Name on list | Application Area | Route of Exposure | Health Effect | Exposure Time | Value | Remarks |
|------------------------|--------------------|-------------------|---------------------------------------|---------------|-------------|---------|
| rosin 8050-09-7 | Workers | inhalation | Long term exposure - local effects | | 10 mg/m3 | |
| rosin 8050-09-7 | Workers | dermal | Long term exposure - systemic effects | | 2,131 mg/kg | |
| rosin 8050-09-7 | General population | dermal | Long term exposure - systemic effects | | 1,065 mg/kg | |
| rosin 8050-09-7 | General population | oral | Long term exposure - systemic effects | | 1,065 mg/kg | |
| Propan-2-ol 67-63-0 | Workers | dermal | Long term exposure - systemic effects | | 888 mg/kg | |
| Propan-2-ol 67-63-0 | Workers | inhalation | Long term exposure - systemic effects | | 500 mg/m3 | |
| Propan-2-ol 67-63-0 | General population | dermal | Long term exposure - systemic effects | | 319 mg/kg | |
| Propan-2-ol 67-63-0 | General population | inhalation | Long term exposure - systemic effects | | 89 mg/m3 | |
| Propan-2-ol 67-63-0 | General population | oral | Long term exposure - systemic effects | | 26 mg/kg | |

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 | paste pasty black |
| Odor | characteristic |
| Odour threshold | No data available / Not applicable |
| pH | Not applicable |
| Melting point | No data available / Not applicable |
| Solidification temperature | No data available / Not applicable |
| Initial boiling point | 82 °C (179.6 °F) |
| Flash point | Product is a solid. (ASTM D 4359) |
| Evaporation rate | No data available / Not applicable |
| Flammability | No data available / Not applicable |
| Explosive limits | No data available / Not applicable |
| Vapour pressure (20 °C (68 °F)) | 33 mm hg |
| Relative vapour density: | 2,07 |
| Density (25 °C (77 °F)) | 1,5 g/cm3 |
| Bulk density | No data available / Not applicable |
| Solubility | No data available / Not applicable |
| Solubility (qualitative) (23 °C (73.4 °F); Solvent: Water) | Partially soluble |
| 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 (Brookfield; Instrument: RVT; 25 °C (77 °F); speed of rotation: 5 min-1; Spindle No: 7) | 500.000 - 700.000 mPa.s |
| 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

None if used properly.

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

None if used properly.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral 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 |
|---------------------------------|---------------|---------------|---------|---|
| rosin 8050-09-7 | LD50 | 2.800 mg/kg | rat | not specified |
| Propan-2-ol 67-63-0 | LD50 | 5.840 mg/kg | rat | equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) |
| Titanium dioxide 13463-67-7 | LD50 | > 5.000 mg/kg | rat | OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure) |

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 |
|---------------------------------|---------------|-----------------|---------|--|
| rosin 8050-09-7 | LD50 | > 2.000 mg/kg | rat | OECD Guideline 402 (Acute Dermal Toxicity) |
| Propan-2-ol 67-63-0 | LD50 | 12.870 mg/kg | rabbit | OECD Guideline 402 (Acute Dermal Toxicity) |
| Titanium dioxide 13463-67-7 | LD50 | >= 10.000 mg/kg | hamster | not specified |

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 |
|---------------------------------|---------------|-------------|-----------------|------------------|---------|---------------|
| Propan-2-ol 67-63-0 | LC50 | 72,6 mg/l | | 4 h | rat | not specified |
| Titanium dioxide 13463-67-7 | LC50 | > 6,82 mg/l | dust | 4 h | rat | not specified |

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 |
|---------------------------------|---------------------|------------------|---------|---|
| rosin 8050-09-7 | not irritating | 4 h | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| Propan-2-ol 67-63-0 | slightly irritating | 4 h | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| Titanium dioxide 13463-67-7 | not irritating | 4 h | rabbit | equivalent or similar to 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 |
|---------------------------------|----------------|------------------|---------|--|
| rosin 8050-09-7 | not irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Propan-2-ol 67-63-0 | Category II | | rabbit | equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| 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 CAS-No. | Result | Test type | Species | Method |
|---------------------------------|-----------------|---------------------------------------|------------|--|
| Propan-2-ol 67-63-0 | not sensitising | Buehler 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) |

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 |
|---------------------------------|----------|--|--|---------|---|
| rosin 8050-09-7 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Propan-2-ol 67-63-0 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Propan-2-ol 67-63-0 | negative | mammalian cell gene mutation assay | with and without | | equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| 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) |
| Propan-2-ol 67-63-0 | negative | intraperitoneal | | mouse | equivalent or similar to OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |
| Titanium dioxide 13463-67-7 | negative | oral: gavage | | mouse | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |

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 |
|---------------------------------|------------------|-------------------------|---|---------|-------------|--|
| Propan-2-ol 67-63-0 | | inhalation: vapour | 104 w 6 h/d, 5 d/w | rat | male/female | OECD Guideline 451 (Carcinogenicity Studies) |
| 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 |
|---------------------------------|---|----------------------------|----------------------------|---------|--|
| Propan-2-ol 67-63-0 | NOAEL P 853 mg/kg | One generation study | oral: drinking water | rat | equivalent or similar to OECD Guideline 415 (One- Generation Reproduction Toxicity Study) |
| Propan-2-ol 67-63-0 | NOAEL P 500 mg/kg NOAEL F1 1.000 mg/kg | Two generation study | oral: gavage | rat | equivalent or similar to OECD Guideline 416 (Two- Generation Reproduction Toxicity Study) |
| 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 CAS-No. | Result / Value | Route of application | Exposure time / Frequency of treatment | Species | Method |
|---------------------------------|-------------------|-------------------------|--|---------|--|
| Propan-2-ol 67-63-0 | | inhalation: vapour | at least 104 w 6 h/d, 5 d/w | rat | OECD Guideline 451 (Carcinogenicity Studies) |
| Titanium dioxide 13463-67-7 | NOAEL 1.000 mg/kg | oral: gavage | 90 d daily | rat | OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |

Aspiration hazard:

The mixture is classified based on Viscosity data.

| Hazardous substances CAS-No. | Viscosity (kinematic) Value | Temperature | Method | Remarks |
|---------------------------------|--------------------------------|-------------|---------------------|---------|
| Propan-2-ol 67-63-0 | 1,8 mm ² /s | 40 °C | ASTM Standard D7042 | |

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 CAS-No. | Value type | Value | Exposure time | Species | Method |
|---------------------------------|---------------|--------------------------------|---------------|---------------------|---|
| rosin 8050-09-7 | LC50 | Toxicity > Water solubility | 96 h | Pimephales promelas | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Propan-2-ol 67-63-0 | LC50 | > 9.640 - 10.000 mg/l | 96 h | Pimephales promelas | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Titanium dioxide 13463-67-7 | LC50 | Toxicity > Water solubility | 48 h | Leuciscus idus | 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 |
|---------------------------------|---------------|--------------------------------|---------------|---------------|--|
| rosin 8050-09-7 | EL50 | Toxicity > Water solubility | 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) |

Chronic toxicity to aquatic invertebrates

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 |
|---------------------------------|---------------|---------|---------------|---------------|--|
| Propan-2-ol 67-63-0 | NOEC | 30 mg/l | 21 d | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |

Toxicity (Algae):

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 |
|------------------------------|------------|-----------------------------|---------------|---|---|
| rosin 8050-09-7 | EL50 | Toxicity > Water solubility | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| rosin 8050-09-7 | NOELR | Toxicity > Water solubility | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Propan-2-ol 67-63-0 | EC50 | > 1.000 mg/l | 96 h | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Propan-2-ol 67-63-0 | NOEC | 1.000 mg/l | 96 h | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Titanium dioxide 13463-67-7 | EC50 | Toxicity > Water solubility | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |

Toxicity to microorganisms

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 |
|------------------------------|------------|-----------------------------|---------------|---|--|
| rosin 8050-09-7 | EC20 | Toxicity > Water solubility | 3 h | activated sludge of a predominantly domestic sewage | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| Propan-2-ol 67-63-0 | EC50 | > 1.000 mg/l | 3 h | activated sludge | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| Titanium dioxide 13463-67-7 | EC0 | Toxicity > Water solubility | 24 h | Pseudomonas fluorescens | DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test) |

12.2. Persistence and degradability

| Hazardous substances CAS-No. | Result | Test type | Degradability | Exposure time | Method |
|------------------------------|-----------------------|-----------|---------------|---------------|--|
| rosin 8050-09-7 | readily biodegradable | aerobic | 71 % | 28 d | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test) |
| Propan-2-ol 67-63-0 | readily biodegradable | aerobic | 70 - 84 % | 30 d | EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test) |

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

| Hazardous substances CAS-No. | LogPow | Temperature | Method |
|---------------------------------|-----------|-------------|---|
| rosin 8050-09-7 | > 3 - 6,2 | | OECD Guideline 117 (Partition Coefficient (n-octanol/ water), HPLC Method) |
| Propan-2-ol 67-63-0 | 0,05 | | OECD Guideline 107 (Partition Coefficient (n-octanol/ water), Shake Flask Method) |

12.5. Results of PBT and vPvB assessment

| Hazardous substances CAS-No. | PBT/ vPvB |
|---------------------------------|---|
| rosin 8050-09-7 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Propan-2-ol 67-63-0 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Titanium dioxide 13463-67-7 | According to Annex XIII of regulation (EC) 1907/2006 a PBT and vPvB assessment shall not be conducted for inorganic substances. |

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**

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.2. UN proper shipping name

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.3. Transport hazard class(es)

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.4. Packing group

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.5. Environmental hazards

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.6. Special precautions for user

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

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): | Not applicable |
| Prior Informed Consent (PIC) (Regulation (EU) No 649/2012): | Not applicable |
| Persistent organic pollutants (Regulation (EU) 2019/1021): | Not applicable |

EU. REACH, Annex XVII, Marketing and Use Restrictions (Regulation 1907/2006/EC): Not applicable

| | |
|--|--------|
| VOC content (VOCV 814.018 VOC regulation CH) | 13,5 % |
|--|--------|

| | |
|-----------------------------|--------|
| VOC content (2010/75/EC) | 27,8 % |
|-----------------------------|--------|

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:

H225 Highly flammable liquid and vapor.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

Further information:

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This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

Dear Customer,

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Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different color on shadowed fields.