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

1.1 Product identifier

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

Care for waterproof floor coverings

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

DREITURM GmbH

Postach 11 40

36392 Steinau an der Straße Tel.: +49 (0) 66 63 / 970 - 0

Fax: +49 (0) 66 63 / 970 - 490

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number

Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:

+1 872 5888271 (DTR)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP)

The mixture is not classified as dangerous in the terms of the Regulation (EC) 1272/2008 (CLP).

2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)

EUH208-Contains Rosin. May produce an allergic reaction.

EUH210-Safety data sheet available on request.

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0.1 %).



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SECTION 3: Composition/information on ingredients

3.1 Substances

n.a.

3.2 Mixtures

| C16-18 alcohols, ethoxylated | |
|---|--------------------|
| Registration number (REACH) | |
| Index | |
| EINECS, ELINCS, NLP, REACH-IT List-No. | |
| CAS | 68439-49-6 |
| content % | 1-2,5 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M- | Eye Irrit. 2, H319 |
| factors | |

| Alcohols, C16-18 and C18-unsatd., ethoxylated | |
|---|-------------------------|
| Registration number (REACH) | |
| Index | |
| EINECS, ELINCS, NLP, REACH-IT List-No. | |
| CAS | 68920-66-1 |
| content % | 1-2,5 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M- | Aquatic Chronic 3, H412 |
| factors | |

| Rosin | |
|---|-----------------------|
| Registration number (REACH) | 01-2119480418-32-XXXX |
| Index | 650-015-00-7 |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 232-475-7 |
| CAS | 8050-09-7 |
| content % | 0,05-<1 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M- | Skin Sens. 1, H317 |
| factors | |

Impurities, test data and additional information may have been taken into account in classifying and labelling the product.

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

Inhalation

Supply person with fresh air and consult doctor according to symptoms.

Skin contact

Wash thoroughly using copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting. Consult doctor immediately.

Keep Data Sheet available

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.



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In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

Sensitive individuals: Allergic reaction possible.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Adapt to the nature and extent of fire.

Unsuitable extinguishing media

None known

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Toxic gases

5.3 Advice for firefighters

For personal protective equipment see Section 8.

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary.

Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.

Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Do not pour down the drain undiluted.

Prevent surface and ground-water infiltration, as well as ground penetration.

6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent) and dispose of according to Section 13.

Flush residue using copious water.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.



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7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Store product closed and only in original packing.

Not to be stored in gangways or stair wells.

Protect from frost.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

| Chemical Name | Rosin | | | | | Content %:0,05- |
|--|--|----------------------|---------------|-------------------------------|---------|------------------|
| WEL-TWA: 0,05 mg/m3 (Rosin fume) | -based solder flux | WEL-STEL: flux fume) | 0,15 mg/m3 (R | osin-based solder | | |
| Monitoring procedures: | - | | | | | |
| BMGV: | | | | Other information: flux fume) | Sen (Ro | sin-based solder |
| Chemical Name | Chemical Name Paraffin wax and hydrocarbon wax | | | | | |
| WEL-TWA: 2 mg/m3 (paraffin wax, fume) WEL-STEL: 6 mg/m3 (paraffin wax, fume) | | | | | | |
| Monitoring procedures: | - | | · | · | | |
| BMGV: | | - | - | Other information: | | |

| Rosin | | | | | | |
|---------------------|---|-----------------------------|-----------|--------|---------------|------|
| Area of application | Exposure route / | Effect on health | Descripto | Value | Unit | Note |
| | Environmental | | r | | | |
| | compartment | | | | | |
| | Environment - freshwater | | PNEC | 0,005 | mg/l | |
| | Environment - marine | | PNEC | 0,0005 | mg/l | |
| | Environment - sewage treatment plant | | PNEC | 1000 | mg/l | |
| | Environment - soil | | PNEC | 21,4 | mg/kg | |
| | Environment - sediment, freshwater | | PNEC | 0,007 | mg/kg dw | |
| | Environment - sediment, marine | | PNEC | 0,0007 | mg/kg dw | |
| | Environment - sporadic (intermittent) release | | PNEC | 0,016 | mg/l | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 10 | mg/kg bw/d | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 35 | mg/m3 | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 10 | mg/kg bw/d | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 17 | mg/kg bw/d | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 117 | mg/m3 | |

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).

^{(8) =} Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive



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2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision. (13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here.

Not required in contained systems, as no exposure normally occurs here.

If operational exposure (e.g. repair or maintenance work) cannot be avoided, corresponding protective measures need to be taken. Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

Recommended

Tight fitting protective goggles (EN 166) with side protection, with danger of splashes.

Skin protection - Hand protection:

Recommended

Rubber gloves (EN ISO 374).

Protective nitrile gloves (EN ISO 374).

Minimum layer thickness in mm:

0.35

Permeation time (penetration time) in minutes:

>= 480

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.

The recommended maximum wearing time is 50% of breakthrough time.

Protective hand cream recommended.

Skin protection - Other:

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:

Normally not necessary.

Thermal hazards:

Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.



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Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Liquid
Colour: Beige
Odour: Perfumed

Melting point/freezing point:

There is no information available on this parameter.

Boiling point or initial boiling point and boiling range:

There is no information available on this parameter.

Flammability:

There is no information available on this parameter.

Lower explosion limit:

Upper explosion limit:

There is no information available on this parameter.

Auto-ignition temperature:

There is no information available on this parameter.

Decomposition temperature:

There is no information available on this parameter.

There is no information available on this parameter.

pH: 8,5

Kinematic viscosity: There is no information available on this parameter.

Solubility: Soluble

Partition coefficient n-octanol/water (log value): Does not apply to mixtures.

Vapour pressure: There is no information available on this parameter.

Density and/or relative density: 1,0025 g/

Relative vapour density: There is no information available on this parameter.

Particle characteristics: Does not apply to liquids.

9.2 Other information

Explosives: Product is not explosive.

Oxidising liquids:

SECTION 10: Stability and reactivity

10.1 Reactivity

Not to be expected

10.2 Chemical stability

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

No dangerous reactions are known.

10.4 Conditions to avoid

None known

10.5 Incompatible materials

None known

10.6 Hazardous decomposition products

No decomposition when used as directed.

SECTION 11: Toxicological information

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

Possibly more information on health effects, see Section 2.1 (classification).

| D3 SPEZIAL | | | | | | | | |
|--------------------------------|----------|-------|------|----------|-------------|--------|--|--|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes | | |
| Acute toxicity, by oral route: | | | | | | n.d.a. | | |
| Acute toxicity, by dermal | | | | | | n.d.a. | | |
| route: | | | | | | | | |



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| | | |
|----------------------------------|------|--------|
| Acute toxicity, by inhalation: | | n.d.a. |
| Skin corrosion/irritation: | | n.d.a. |
| Serious eye | | n.d.a. |
| damage/irritation: | | |
| Respiratory or skin | | n.d.a. |
| sensitisation: | | |
| Germ cell mutagenicity: | | n.d.a. |
| Carcinogenicity: | | n.d.a. |
| Reproductive toxicity: | | n.d.a. |
| Specific target organ toxicity - | | n.d.a. |
| single exposure (STOT-SE): | | |
| Specific target organ toxicity - | | n.d.a. |
| repeated exposure (STOT- | | |
| RÉ): | | |
| Aspiration hazard: | | n.d.a. |
| Symptoms: | | n.d.a. |

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|--------------------------------|----------|-------|-------|------------|---------------------|---------------|
| Acute toxicity, by oral route: | LD50 | >5000 | mg/kg | Rat | | |
| Acute toxicity, by dermal | LD50 | >2000 | mg/kg | Rat | | |
| route: | | | | | | |
| Skin corrosion/irritation: | | | | Rat | | Negative |
| Skin corrosion/irritation: | | | | Rabbit | | Not irritant, |
| | | | | | | Analogous |
| | | | | | | conclusion |
| Serious eye | | | | Rabbit | | Eye Irrit. 2, |
| damage/irritation: | | | | | | Analogous |
| | | | | | | conclusion |
| Respiratory or skin | | | | Guinea pig | | Negative |
| sensitisation: | | | | | | |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial | Negative |
| | | | | | Reverse Mutation | |
| | | | | | Test) | |

| Alcohols, C16-18 and C18-unsatd., ethoxylated | | | | | | | | |
|---|----------|-------|------|----------|-------------|--------------|--|--|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes | | |
| Skin corrosion/irritation: | | | | | | Not irritant | | |
| Serious eye | | | | | | Not irritant | | |
| damage/irritation: | | | | | | | | |
| Aspiration hazard: | | | | | | No | | |

| Rosin | | | | | | | | |
|------------------------------------|----------|-------|-------|----------|--|--|--|--|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes | | |
| Acute toxicity, by oral route: | LD50 | 2800 | mg/kg | Rat | | | | |
| Acute toxicity, by dermal route: | LD50 | >2000 | mg/kg | Rat | | | | |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant | | |
| Serious eye damage/irritation: | | | | | | Mechanical irritation possible. | | |
| Respiratory or skin sensitisation: | | | | Mouse | OECD 429 (Skin Sensitisation - Local Lymph Node Assay) | Negative, Does not conform with EU classification. | | |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial Reverse Mutation Test) | Negative | | |



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| Reproductive toxicity: | NOEL | 3000 | ppm | Rat | OECD 421 | No indications |
|----------------------------------|-------|------|---------|-----|-----------------------|-----------------|
| • | | | | | (Reproduction/Develop | of such an |
| | | | | | mental Toxicity | effect. |
| | | | | | Screening Test) | |
| Specific target organ toxicity - | NOAEL | 600 | mg/kg/d | Rat | OECD 408 (Repeated | |
| repeated exposure (STOT- | | | | | Dose 90-Day Oral | |
| RE): | | | | | Toxicity Study in | |
| | | | | | Rodents) | |
| Aspiration hazard: | | | | | | No |
| Symptoms: | | | | | | asthmatic |
| | | | | | | symptoms, |
| | | | | | | headaches, |
| | | | | | | gastrointestina |
| | | | | | | disturbances, |
| | | | | | | dizziness, |
| | | | | | | nausea |

| Paraffin wax and hydrocarbon wax | | | | | | | |
|----------------------------------|----------|-------|---------|-------------|-------------------|-------------------|--|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes | |
| Acute toxicity, by oral route: | LD50 | >5000 | mg/kg | Rat | OECD 401 (Acute | | |
| | | | | | Oral Toxicity) | | |
| Acute toxicity, by oral route: | NOAEL | 1,5 | mg/kg | Rat | • • | | |
| Acute toxicity, by dermal | LD50 | >3600 | mg/kg | Rabbit | IUCLID Chem. Data | | |
| route: | | | | | Sheet (ESIS) | | |
| Acute toxicity, by inhalation: | LC50 | >5 | mg/l/4h | Human being | · | Dust | |
| Skin corrosion/irritation: | | | | | (Patch-Test) | Not irritant | |
| Serious eye | | | | | | Not irritant | |
| damage/irritation: | | | | | | | |
| Respiratory or skin | | | | | | Not sensitizising | |
| sensitisation: | | | | | | | |
| Reproductive toxicity | NOAEL | >1000 | mg/kg | Rat | | | |
| (Developmental toxicity): | | | | | | | |
| Symptoms: | | | | | | diarrhoea | |

11.2. Information on other hazards

| D3 SPEZIAL | | | | | | | | | |
|----------------------|----------|-------|------|----------|-------------|---|--|--|--|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes | | | |
| Endocrine disrupting | | | | | | Does not apply | | | |
| properties: | | | | | | to mixtures. | | | |
| Other information: | | | | | | No other relevant information available on adverse effects on health. | | | |

SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

| D3 SPEZIAL | | | | | | | | | | |
|--------------------------|----------|------|-------|------|----------|-------------|--------|--|--|--|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes | | | |
| 12.1. Toxicity to fish: | | | | | | | n.d.a. | | | |
| 12.1. Toxicity to | | | | | | | n.d.a. | | | |
| daphnia: | | | | | | | | | | |
| 12.1. Toxicity to algae: | | | | | | | n.d.a. | | | |



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| 12.2. Persistence and | The |
|-------------------------|------------------|
| degradability: | surfactant(s) |
| | contained in |
| | this mixture |
| | complies(compl |
| | |
| | y) with the |
| | biodegradability |
| | criteria as laid |
| | down in |
| | Regulation |
| | (EČ) |
| | No.648/2004 |
| | |
| | on detergents. |
| | Data to support |
| | this assertion |
| | are held at the |
| | disposal of the |
| | competent |
| | authorities of |
| | the Member |
| | States and will |
| | |
| | be made |
| | available to |
| | them, at their |
| | direct request |
| | or at the |
| | request of a |
| | detergent |
| | manufacturer. |
| 12.3. Bioaccumulative | n.d.a. |
| | n.u.a. |
| potential: | |
| 12.4. Mobility in soil: | n.d.a. |
| 12.5. Results of PBT | n.d.a. |
| and vPvB assessment | |
| 12.6. Endocrine | Does not apply |
| disrupting properties: | to mixtures. |
| 12.7. Other adverse | No information |
| effects: | available on |
| | other adverse |
| | effects on the |
| | |
| | environment. |
| Other information: | DOC- |
| | elimination |
| | degree(complex |
| | ing organic |
| | substance)>= |
| | 80%/28d: n.a. |
| | 5070/200. II.a. |

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|-----------------------|----------|------|-------|------|----------|--------------------|------------|
| 12.2. Persistence and | | 28d | >60 | % | | OECD 301 B | |
| degradability: | | | | | | (Ready | |
| | | | | | | Biodegradability - | |
| | | | | | | Co2 Evolution | |
| | | | | | | Test) | |
| 12.2. Persistence and | | | >=90 | % | | OECD 303 A | Analogous |
| degradability: | | | | | | (Simulation Test - | conclusion |
| - | | | | | | Aerobic Sewage | |
| | | | | | | Treatment - | |
| | | | | | | Activated Sludge | |
| | | | | | | Units) | |



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| 12.1. Toxicity to fish: | LC50 | 96h | >1-10 | mg/l | Cyprinus caprio | OECD 203 (Fish, Acute Toxicity Test) | |
|----------------------------|------|-----|-------|------|-------------------------|--|---------|
| 12.1. Toxicity to daphnia: | EC50 | 48h | >1-10 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.1. Toxicity to algae: | EC50 | 72h | >1-10 | mg/l | Desmodesmus subspicatus | OECD 201 (Alga, Growth Inhibition Test) | |
| Water solubility: | | | | | | | Soluble |

| Alcohols, C16-18 and C18-unsatd., ethoxylated | | | | | | | | | | |
|---|----------|------|-------|------|----------|-------------|----------------|--|--|--|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes | | | |
| 12.2. Persistence and | | | | | | | Readily | | | |
| degradability: | | | | | | | biodegradable | | | |
| 12.5. Results of PBT | | | | | | | No PBT | | | |
| and vPvB assessment | | | | | | | substance, No | | | |
| | | | | | | | vPvB substance | | | |

| Rosin | | | | | | | |
|--------------------------------------|----------|------|---------|------|-------------------------|--|--------------------------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | NOELR | 96h | 1 | mg/l | Brachydanio rerio | | |
| 12.1. Toxicity to daphnia: | LC0 | 48h | 3,8-5,4 | mg/l | | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.1. Toxicity to algae: | EC50 | 72h | 400-410 | mg/l | Scenedesmus subspicatus | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.2. Persistence and degradability: | | 28d | 89 | % | | OECD 301 B (Ready Biodegradability - Co2 Evolution Test) | Readily biodegradable |
| 12.3. Bioaccumulative potential: | BCF | | <=130 | | | · | Oncorhyncus mykiss |
| Toxicity to bacteria: | EC50 | 3h | >10000 | mg/l | activated sludge | DIN EN ISO 11348-2 | • |
| Water solubility: | | | <1 | mg/l | | | 20°C |

| Paraffin wax and hydro | ocarbon wax | | | | | | |
|--------------------------|-------------|------|--------|------|---------------|--------------------|----------------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to | NOEC/NOEL | | 10 | mg/l | | | |
| daphnia: | | | | | | | |
| 12.2. Persistence and | | 28d | >50 | % | | OECD 301 B | Biodegradable |
| degradability: | | | | | | (Ready | |
| | | | | | | Biodegradability - | |
| | | | | | | Co2 Evolution | |
| | | | | | | Test) | |
| 12.5. Results of PBT | | | | | | | No PBT |
| and vPvB assessment | | | | | | | substance, No |
| | | | | | | | vPvB substance |
| 12.1. Toxicity to fish: | LL50 | | >100 | mg/l | | | |
| 12.1. Toxicity to | EL50 | | >10000 | mg/l | Daphnia magna | | |
| daphnia: | | | | | | | |
| 12.1. Toxicity to algae: | NOEC/NOEL | | >100 | mg/l | | | |
| Water solubility: | | | | | | | Insoluble |



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SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be

allocated under certain circumstances. (2014/955/EU)

07 06 01 aqueous washing liquids and mother liquors

20 01 30 detergents other than those mentioned in 20 01 29

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

Neutralisation possible by an expert

E.g. suitable incineration plant.

E.g. dispose at suitable refuse site.

For contaminated packing material

Pay attention to local and national official regulations.

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

SECTION 14: Transport information

General statements

14.1. UN number or ID number: n.a.

Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:

14.3. Transport hazard class(es):n.a.14.4. Packing group:n.a.Classification code:n.a.LQ:n.a.

14.5. Environmental hazards:

Not applicable

Tunnel restriction code:

Transport by sea (IMDG-code)

14.2. UN proper shipping name:

14.3. Transport hazard class(es):n.a.14.4. Packing group:n.a.Marine Pollutant:n.a

14.5. Environmental hazards: Not applicable

Transport by air (IATA)

14.2. UN proper shipping name:

14.3. Transport hazard class(es):

n.a.

14.4. Packing group:

n.a.

14.5. Environmental hazards: Not applicable

14.6. Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

14.7. Maritime transport in bulk according to IMO instruments

Non-dangerous material according to Transport Regulations.

SECTION 15: Regulatory information

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

Observe restrictions:

General hygiene measures for the handling of chemicals are applicable.



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Directive 2010/75/EU (VOC): < 0,15 %

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections: 1-16

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Not applicable

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Eye Irrit. — Eye irritation

Aquatic Chronic — Hazardous to the aquatic environment - chronic

Skin Sens. — Skin sensitization

Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.

Guidelines for the preparation of safety data sheets as amended (ECHA).

Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).

Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).

EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.

National Lists of Occupational Exposure Limits for each country as amended.

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

Any abbreviations and acronyms used in this document:

acc., acc. to according, according to

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOX Adsorbable organic halogen compounds

approx. approximately Art., Art. no. Article number

ASTM ASTM International (American Society for Testing and Materials)

ATE Acute Toxicity Estimate

BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)
BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)

BCF Bioconcentration factor

BSEF The International Bromine Council

bw body weight

CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

DMEL Derived Minimum Effect Level

DNEL Derived No Effect Level

DOC Dissolved organic carbon



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dw dry weight

e.g. for example (abbreviation of Latin 'exempli gratia'), for instance

EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants)

EC European Community
ECHA European Chemicals Agency

ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect

EEC European Economic Community

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

EN European Norms

EPA United States Environmental Protection Agency (United States of America)

ErCx, EµCx, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants)

etc. et cetera EU European Union

EVAL Ethylene-vinyl alcohol copolymer

Fax. Fax number gen. general

GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

Koc Adsorption coefficient of organic carbon in the soil

Kow octanol-water partition coefficient

IARC International Agency for Research on Cancer

IATA International Air Transport Association IBC (Code) International Bulk Chemical (Code)

IMDG-code International Maritime Code for Dangerous Goods

incl. including, inclusive

IUCLIDInternational Uniform Chemical Information Database

IUPAC International Union for Pure Applied Chemistry LC50 Lethal Concentration to 50 % of a test population

LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)

Log Koc Logarithm of adsorption coefficient of organic carbon in the soil

Log Kow, Log Pow Logarithm of octanol-water partition coefficient

LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

n.a. not applicable n.av. not available n.c. not checked n.d.a. no data available

NIOSHNational Institute for Occupational Safety and Health (USA)

NLP No-longer-Polymer

NOEC, NOEL No Observed Effect Concentration/Level

OECD Organisation for Economic Co-operation and Development

org. organic

OSHA Occupational Safety and Health Administration (USA)

PBT persistent, bioaccumulative and toxic

PE Polyethylene

PNEC Predicted No Effect Concentration

ppm parts per million PVC Polyvinylchloride

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)

REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SVHC Substances of Very High Concern

Tel. Telephone

TOC Total organic carbon

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative



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wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.

These statements were made by:

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