



Prestone



SIMONIZ

SAFETY DATA SHEET

SIMONIZ Liquid Diamond Polish & Wax

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

1.1. Product identifier

| | |
|------------------------------------|--|
| Product name | SIMONIZ Liquid Diamond Polish & Wax |
| Product number | SAPP0188A |
| Internal identification | NQA2295 |
| EU REACH registration notes | This is a MIXTURE; no registration information contained in this document. Holts are classed as Downstream User. |

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

| | |
|------------------------|--|
| Identified uses | Car maintenance product. Polish. Wax for car care. |
|------------------------|--|

1.3. Details of the supplier of the safety data sheet

| | |
|-----------------------|---|
| Supplier | Holt Lloyd Services 52 Rue des 40 Mines, 60000 – Allonne, France Phone: +33 (0)3 64 99 00 32 info@holtsauto.com |
| Contact person | Contact email address: info@holtsauto.com |
| Manufacturer | Holt Lloyd International Ltd Barton Dock Road Stretford Manchester M32 0YQ - England, UK +44 (0) 161 866 4800 FAX +44 (0) 161 866 4854 www.holtsauto.com |

1.4. Emergency telephone number

| | |
|----------------------------|--|
| Emergency telephone | UK - 00 44 (0) 161 866 4800 Office hrs = 0900 - 1700 hrs |
|----------------------------|--|

SIMONIZ Liquid Diamond Polish & Wax

National emergency telephone number +43 1 31304 5620; chemikalien@umweltbundesamt.at (Austria)
 +32022649636; info@poisoncentre.be (Belgium)
 +359 2 9154 409; poison_centre@mail.orbitel.bg (Bulgaria)
 +38514686910; toksikologija@hzjz.hr (Croatia)
 +35722405611; cy-chemregistry@dli.mlsi.gov.cy (Cyprus)
 +420267082257; biocidy@mzcr.cz (Czech Republic)
 +45 72 54 40 00; mst@mst.dk (Denmark)
 +372 794 3500; clp@terviseamet.ee, info@terviseamet.ee (Estonia)
 +358 5052 000; kirjaamo@tukes.fi (Finland)
 + 33 3 83 85 21 92; bnpc@chru-nancy.fr (France)
 +49-30-18412-0; bfr@bfr.bund.de (Germany)
 +302106479250; +302106479450; devxp.gcs@aade.gr, environment.gcs@aade.gr (Greece)
 +36 (1) 476 1135; clp.ca@nnk.gov.hu (Hungary)
 +354 543 22 22; eitur@landspitali.is (Iceland)
 +353 (1) 809 2166 / +353 (1) 809 2566; chemicalsinfo@beaumont.ie (Ireland)
 +390649906140; inscweb@iss.it (Italy)
 +371 67032600; lvgmc@lvgmc.lv (Latvia)
 +370 70662008; aaa@aaa.am.lt (Lithuania)
 +320 22649636; +352 24785551; info@poisoncentre.be; direction-sante@ms.etat.lu (Luxembourg)
 +356 2395 2000; info@mccaa.org.mt (Malta)
 +31 88 75 585 61; productnotificatie@umcutrecht.nl (The Netherlands)
 +4573580500; produktregisteret@miljodir.no / +47 21 07 70 00; folkehelseinstituttet@fhi.no (Norway)
 +48 42 2538 400; biuro@chemikalia.gov.pl (Poland)
 +351 800 250 250; ciav.tox@inem.pt (Portugal)
 +40213183606; infotox@insp.gov.ro (Romania)
 +7 495 621 6885; +7 495 628 1687; rtiac@mail.ru; rtiac2003@yahoo.com (Russia)
 +421 2 5465 2307; ntic@ntic.sk (Slovakia)
 + 386 1 522 1293; gp.ukc@kclj.si (Slovenia)
 +34 917689800; intcf.doc@justicia.es (Spain)
 +46104566750; giftinformation@gic.se (Sweden)
 +44 121 507 4123; allistervale@npis.org, sallybradberry@npis.org (UK)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (SI 2019 No. 720)

| | |
|-----------------------|----------------|
| Physical hazards | Not Classified |
| Health hazards | Not Classified |
| Environmental hazards | Not Classified |

2.2. Label elements

| | |
|--------------------------|---|
| Hazard statements | EUH208 Contains 1,2-BENZISOTHIAZOLIN-3-ONE. May produce an allergic reaction. |
| Precautionary statements | 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 regulations. |
| Contains | 1,2-BENZISOTHIAZOLIN-3-ONE |

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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| | |
|-----------------------------------|----------------------|
| Isotridecanol, ethoxylated | <1% |
| CAS number: 69011-36-5 | EC number: 500-241-6 |
| Classification | |
| Acute Tox. 4 - H302 | |
| Eye Dam. 1 - H318 | |
| Aquatic Chronic 3 - H412 | |
| 1,2-BENZISOTHIAZOLIN-3-ONE | <1% |
| CAS number: 2634-33-5 | EC number: 220-120-9 |
| M factor (Acute) = 10 | |
| Classification | |
| Acute Tox. 4 - H302 | |
| Skin Irrit. 2 - H315 | |
| Eye Dam. 1 - H318 | |
| Skin Sens. 1 - H317 | |
| Aquatic Acute 1 - H400 | |
| Triethanolamine | <1% |
| CAS number: 102-71-6 | EC number: 203-049-8 |
| Classification | |
| Skin Irrit. 2 - H315 | |
| Eye Irrit. 2 - H319 | |
| STOT SE 3 - H335 | |
| SODIUM HYDROXIDE | <1% |
| CAS number: 1310-73-2 | EC number: 215-185-5 |
| Classification | |
| Skin Corr. 1A - H314 | |
| Eye Dam. 1 - H318 | |
| DIETHANOLAMINE | <1% |
| CAS number: 111-42-2 | EC number: 203-868-0 |
| Classification | |
| Acute Tox. 4 - H302 | |
| Skin Irrit. 2 - H315 | |
| Eye Dam. 1 - H318 | |
| STOT RE 2 - H373 | |

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| | |
|--|----------------------|
| BRONOPOL (INN) | <1% |
| CAS number: 52-51-7 | EC number: 200-143-0 |
| M factor (Acute) = 10 | |
| Classification Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335 Aquatic Acute 1 - H400 | |

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|----------------------------|---|
| General information | Treat symptomatically. |
| Inhalation | Unlikely route of exposure as the product does not contain volatile substances. |
| Ingestion | Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues. |
| Skin contact | Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing. |
| Eye contact | Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues. |

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

| | |
|----------------------------|---|
| General information | The severity of the symptoms described will vary dependent on the concentration and the length of exposure. |
| Inhalation | This is unlikely to occur but symptoms similar to those of ingestion may develop. |
| Ingestion | May cause discomfort if swallowed. |
| Skin contact | May be slightly irritating to skin. Prolonged or repeated exposure may cause severe irritation. |
| Eye contact | May be slightly irritating to eyes. Prolonged or repeated exposure may cause severe irritation. |

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

| | |
|-----------------------------|------------------------|
| Notes for the doctor | Treat symptomatically. |
|-----------------------------|------------------------|

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media The product is non-combustible. Use fire-extinguishing media suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

| | |
|--------------------------------------|--|
| Specific hazards | Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours. |
| Hazardous combustion products | Oxides of carbon. Oxides of nitrogen. |

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5.3. Advice for firefighters

Protective actions during firefighting No specific firefighting precautions known.

Special protective equipment for firefighters Use protective equipment appropriate for surrounding materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions Avoid release to the environment. Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. For waste disposal, see Section 13.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid spilling. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in a cool and well-ventilated place. Keep away from food, drink and animal feeding stuffs. Keep only in the original container.

Storage class Chemical storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

SODIUM HYDROXIDE

Long-term exposure limit (8-hour TWA): WEL

Short-term exposure limit (15-minute): WEL 2 mg/m³

WEL = Workplace Exposure Limit.

Isotridecanol, ethoxylated (CAS: 69011-36-5)

DNEL

Workers - Inhalation; Long term systemic effects: 294 mg/m³

Workers - Dermal; Long term systemic effects: 2080 mg/kg/day

General population - Inhalation; Long term systemic effects: 87 mg/m³

General population - Dermal; Long term systemic effects: 1250 mg/kg/day

General population - Oral; Long term systemic effects: 25 mg/kg/day

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PNEC Fresh water; 0.074 mg/l
 marine water; 0.007 mg/l
 STP; 1.4 mg/l
 Sediment (Freshwater); 0.604 mg/kg sediment dry weight
 Sediment (Marinewater); 0.06 mg/kg sediment dry weight
 Soil; 0.1 mg/kg soil dry weight

1,2-BENZISOTHIAZOLIN-3-ONE (CAS: 2634-33-5)

DNEL Workers - Inhalation; Long term systemic effects: 6.81 mg/m³
 Workers - Dermal; Long term systemic effects: 0.966 mg/kg bw/day
 General population - Inhalation; Long term systemic effects: 1.2 mg/m³
 General population - Dermal; Long term systemic effects: 0.345 mg/kg bw/day

PNEC Fresh water; Long term 4.03 µg/l
 Fresh water; Long term 0.403 µg/l
 STP; Long term 1.03 mg/l
 Sediment (Freshwater); Long term 49.9 µg/kg sediment dw
 Sediment (Marinewater); Long term 4.99 µg/kg sediment dw
 Soil; Long term 3 mg/kg soil dry weight

Triethanolamine (CAS: 102-71-6)

DNEL Workers - Inhalation; Long term local effects: 1 mg/m³
 Workers - Dermal; Long term systemic effects: 7.5 mg/kg bw/day
 Workers - Dermal; Long term local effects: 140 µg/cm²
 General population - Inhalation; Long term local effects: 0.4 mg/m³
 General population - Dermal; Long term systemic effects: 2.66 mg/kg bw/day
 General population - Dermal; Long term local effects: 70 µg/cm²
 General population - Oral; Long term systemic effects: 3.3 mg/kg bw/day

PNEC Fresh water; Long term 0.32 mg/l
 marine water; Long term 0.032 mg/l
 STP; Long term 10 mg/l
 Sediment (Freshwater); Long term 1.7 mg/kg sediment dry weight
 Sediment (Marinewater); Long term 0.17 mg/kg sediment dry weight
 Soil; Long term 0.151 mg/kg soil dry weight

SODIUM HYDROXIDE (CAS: 1310-73-2)

DNEL Workers - Inhalation; Long term local effects: 1 mg/m³
 General population - Dermal; Long term local effects: 1 mg/m³

DIETHANOLAMINE (CAS: 111-42-2)

DNEL Workers - Inhalation; Long term systemic effects: 0.75 mg/m³
 Workers - Inhalation; Long term local effects: 0.5 mg/m³
 Workers - Dermal; Long term systemic effects: 0.13 mg/kg bw/day
 General population - Inhalation; Long term systemic effects: 0.125 mg/m³
 General population - Dermal; Long term systemic effects: 0.07 mg/kg bw/day
 General population - Oral; Long term systemic effects: 0.06 mg/kg bw/day

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| | |
|-------------|---|
| PNEC | Fresh water; Long term 0.021 mg/l marine water; Long term 0.002 mg/l STP; Long term 100 mg/l Sediment (Freshwater); Long term 0.092 mg/kg sediment dry weight Sediment (Marinewater); Long term 0.009 mg/kg sediment dry weight Soil; Long term 1.63 mg/kg soil dry weight |
|-------------|---|

BRONOPOL (INN) (CAS: 52-51-7)

| | |
|-------------|--|
| DNEL | Workers - Inhalation; Long term systemic effects: 3.5 mg/m ³ Workers - Inhalation; Short term Acute: 10.5 mg/m ³ Workers - Inhalation; Long term local effects: 2.5 mg/m ³ Workers - Inhalation; Short term Acute: 2.5 mg/m ³ Workers - Dermal; Long term systemic effects: 2 mg/kg/day Workers - Dermal; Short term Acute: 6 mg/kg/day Workers - skin irritation/corrosion; Long term local effects: 8 µg/cm ² Workers - skin irritation/corrosion; Short term Acute: 8 µg/cm ² General population - Inhalation; Long term systemic effects: 0.6 mg/m ³ General population - Inhalation; Short term Acute: 1.8 mg/m ³ General population - irritation (respiratory tract); Long term local effects: 0.6 mg/m ³ General population - irritation (respiratory tract); Short term Acute: 0.6 mg/m ³ General population - Dermal; Long term systemic effects: 0.7 mg/kg/day General population - Dermal; Short term Acute: 2.1 mg/kg/day General population - skin irritation/corrosion; Long term local effects: 4 µg/cm ² General population - skin irritation/corrosion; Short term Acute: 4 µg/cm ² General population - Oral; Long term systemic effects: 0.18 mg/kg/day General population - Oral; Short term Acute: 0.5 mg/kg/day |
|-------------|--|

| | |
|-------------|--|
| PNEC | Fresh water; 0.01 mg/l marine water; 0.001 mg/l STP; 0.43 mg/l Sediment (Freshwater); 0.041 mg/kg sediment dry weight Sediment (Marinewater); 0.003 mg/kg sediment dry weight Soil; 0.5 mg/kg soil dry weight |
|-------------|--|

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

No specific ventilation requirements.

Eye/face protection

Wear chemical splash goggles.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. To protect hands from chemicals, wear gloves that are proven to be impervious to the chemical and resist degradation.

Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures

Wash hands thoroughly after handling.

Respiratory protection

Respiratory protection not required.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-------------------------|----------------------------------|
| Appearance | Creamy liquid. |
| Colour | Beige. |
| Odour | Mild. |
| pH | pH (concentrated solution): 7.21 |
| Flash point | Not applicable. |
| Relative density | ~ 1.097 |
| Solubility(ies) | Miscible with water. |
| Viscosity | 2000 cP @ 20°C |

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Not applicable. Will not polymerise.

10.4. Conditions to avoid

Conditions to avoid Avoid heat. Avoid freezing.

10.5. Incompatible materials

Materials to avoid No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.6. Hazardous decomposition products

Hazardous decomposition products Does not decompose when used and stored as recommended. Oxides of carbon. Oxides of nitrogen.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects No information available.

Acute toxicity - oral

Notes (oral LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Based on available data the classification criteria are not met.

Skin corrosion/irritation

Skin corrosion/irritation Based on available data the classification criteria are not met.

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Serious eye damage/irritation

Serious eye damage/irritation Based on available data the classification criteria are not met.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.

Genotoxicity - in vivo Based on available data the classification criteria are not met.

Carcinogenicity

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

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity - development Does not contain any substances known to be toxic to reproduction.

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Not relevant.

Inhalation This is unlikely to occur but symptoms similar to those of ingestion may develop.

Ingestion May cause discomfort if swallowed.

Skin contact May be slightly irritating to skin. Prolonged or repeated exposure may cause severe irritation.

Eye contact May be slightly irritating to eyes. Prolonged or repeated exposure may cause severe irritation.

Toxicological information on ingredients.

Isotridecanol, ethoxylated

Acute toxicity - oral

Notes (oral LD₅₀) Harmful if swallowed.

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ > 2000 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC50 > 16 mg/m³, Inhalation, Rat

Skin corrosion/irritation

Skin corrosion/irritation Not irritating.

Serious eye damage/irritation

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| | |
|--|--|
| Serious eye damage/irritation | Causes serious eye damage. |
| <u>Respiratory sensitisation</u> | |
| Respiratory sensitisation | No information available. |
| <u>Skin sensitisation</u> | |
| Skin sensitisation | Based on available data the classification criteria are not met. |
| <u>Carcinogenicity</u> | |
| Carcinogenicity | No information available. |
| <u>Reproductive toxicity</u> | |
| Reproductive toxicity - fertility | Based on available data the classification criteria are not met. |
| <u>Specific target organ toxicity - single exposure</u> | |
| STOT - single exposure | Based on available data the classification criteria are not met. |
| <u>Specific target organ toxicity - repeated exposure</u> | |
| STOT - repeated exposure | Based on available data the classification criteria are not met. |
| <u>Aspiration hazard</u> | |
| Aspiration hazard | Not relevant. |
| . | |
| Inhalation | No specific health hazards known. |
| Ingestion | May cause discomfort. |
| Skin contact | May cause skin irritation. |
| Eye contact | May cause eye irritation. |

1,2-BENZISOTHIAZOLIN-3-ONE

| | |
|---|--|
| <u>Acute toxicity - oral</u> | |
| Notes (oral LD₅₀) | LD ₅₀ 490 mg/kg, Oral, Rat |
| <u>Acute toxicity - dermal</u> | |
| Notes (dermal LD₅₀) | LD ₅₀ > 2000 mg/kg, Dermal, Rat NOAEL 2000 mg/kg, Dermal, Rat |
| <u>Acute toxicity - inhalation</u> | |
| Notes (inhalation LC₅₀) | No specific test data are available. |
| <u>Skin corrosion/irritation</u> | |
| Skin corrosion/irritation | Causes skin irritation. |
| <u>Serious eye damage/irritation</u> | |
| Serious eye damage/irritation | Causes serious eye damage. |
| <u>Respiratory sensitisation</u> | |
| Respiratory sensitisation | No information available. |
| <u>Skin sensitisation</u> | |

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| | |
|--|--|
| Skin sensitisation | May cause an allergic skin reaction. |
| <u>Germ cell mutagenicity</u> | |
| Genotoxicity - in vitro | Negative. |
| Genotoxicity - in vivo | Negative. |
| <u>Carcinogenicity</u> | |
| Carcinogenicity | No information available. |
| <u>Reproductive toxicity</u> | |
| Reproductive toxicity - fertility | Two-generation study - NOAEL 112 mg/kg/day, Oral, Rat P Based on available data the classification criteria are not met. |
| Reproductive toxicity - development | Does not contain any substances known to be toxic to reproduction. |
| <u>Specific target organ toxicity - single exposure</u> | |
| STOT - single exposure | No information available. |
| <u>Specific target organ toxicity - repeated exposure</u> | |
| STOT - repeated exposure | No information available. |
| <u>Aspiration hazard</u> | |
| Aspiration hazard | Not relevant. |

Triethanolamine

| | |
|---|--|
| <u>Acute toxicity - oral</u> | |
| Notes (oral LD₅₀) | LD ₅₀ 6400 mg/kg, Oral, Rat |
| <u>Acute toxicity - dermal</u> | |
| Notes (dermal LD₅₀) | LD ₅₀ > 2000 mg/kg, Dermal, Rat |
| <u>Acute toxicity - inhalation</u> | |
| Notes (inhalation LC₅₀) | Scientifically unjustified. |
| <u>Skin corrosion/irritation</u> | |
| Skin corrosion/irritation | Not irritating. |
| <u>Serious eye damage/irritation</u> | |
| Serious eye damage/irritation | Based on available data the classification criteria are not met. |
| <u>Respiratory sensitisation</u> | |
| Respiratory sensitisation | No information available. |
| <u>Skin sensitisation</u> | |
| Skin sensitisation | Not sensitising. |
| <u>Germ cell mutagenicity</u> | |
| Genotoxicity - in vitro | Negative. |
| Genotoxicity - in vivo | No information available. |
| <u>Carcinogenicity</u> | |

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| | |
|--|---|
| Carcinogenicity | NOAEL 1333 mg/kg/day, Oral, Rat |
| <u>Reproductive toxicity</u> | |
| Reproductive toxicity - fertility | Two-generation study - NOAEL 300 mg/kg/day, Oral, Rat F0 Two-generation study - NOAEL 1000 mg/kg/day, Oral, Rat F1 |
| Reproductive toxicity - development | Developmental toxicity: - NOAEL: 300 (prenatal) mg/kg/day, Oral, Rat Developmental toxicity: - NOAEL: 1000 (offspring) mg/kg/day, Oral, Rat Developmental toxicity:, Teratogenicity: - NOAEL: 1125 mg/kg/day, Oral, Mouse |
| <u>Specific target organ toxicity - single exposure</u> | |
| STOT - single exposure | Based on available data the classification criteria are not met. |
| <u>Specific target organ toxicity - repeated exposure</u> | |
| STOT - repeated exposure | Based on available data the classification criteria are not met. |
| <u>Aspiration hazard</u> | |
| Aspiration hazard | Not relevant. |

SODIUM HYDROXIDE

| | |
|--|--|
| <u>Acute toxicity - oral</u> | |
| Acute toxicity oral (LD₅₀ mg/kg) | 500.0 |
| Species | Rat |
| Notes (oral LD₅₀) | Not applicable. REACH dossier information. |
| <u>Acute toxicity - dermal</u> | |
| Notes (dermal LD₅₀) | Not applicable. REACH dossier information. |
| <u>Acute toxicity - inhalation</u> | |
| Notes (inhalation LC₅₀) | Not applicable. REACH dossier information. |
| <u>Skin corrosion/irritation</u> | |
| Skin corrosion/irritation | Causes severe burns. |
| <u>Serious eye damage/irritation</u> | |
| Serious eye damage/irritation | Causes serious eye damage. |
| <u>Respiratory sensitisation</u> | |
| Respiratory sensitisation | No information available. |
| <u>Skin sensitisation</u> | |
| Skin sensitisation | Not sensitising. |
| <u>Germ cell mutagenicity</u> | |
| Genotoxicity - in vitro | Negative. |
| Genotoxicity - in vivo | Negative. |
| <u>Carcinogenicity</u> | |
| Carcinogenicity | Based on available data the classification criteria are not met. |
| <u>Reproductive toxicity</u> | |

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Reproductive toxicity - fertility Scientifically unjustified. REACH dossier information.

Reproductive toxicity - development This substance has no evidence of toxicity to reproduction.

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Not relevant.

DIETHANOLAMINE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 1,100.0

Species Rat

Notes (oral LD₅₀) Harmful if swallowed.

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

Notes (dermal LD₅₀) Not available.

Skin corrosion/irritation

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage.

Skin sensitisation

Skin sensitisation Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Negative with metabolic activation. Negative without metabolic activation.

Genotoxicity - in vivo Negative.

Carcinogenicity

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

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity - development Does not contain any substances known to be toxic to reproduction.

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

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Specific target organ toxicity - repeated exposure

STOT - repeated exposure Central and/or peripheral nervous system damage. Liver and/or kidney damage.

Aspiration hazard

Aspiration hazard Not relevant.

BRONOPOL (INN)

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 350.0

Species Rat

Notes (oral LD₅₀) LD₅₀ 193 mg/kg, Oral, Rat REACH dossier information.

ATE oral (mg/kg) 350.0

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ > 2000 mg/kg, Dermal, Rat REACH dossier information.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC₅₀ > 0.588 mg/m³, Inhalation, Rat LC₅₀ > 120 - < 1140 mg/m³, Inhalation, Rat REACH dossier information.

Skin corrosion/irritation

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage.

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Conclusive data but not sufficient for classification.

Genotoxicity - in vivo Conclusive data but not sufficient for classification.

Carcinogenicity

Carcinogenicity NOAEL 7 mg/kg/day, Oral, Rat NOAEL 0.2 - 0.5 %, Dermal, Mouse REACH dossier information. Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - fertility Two-generation study - NOAEL 150 mg/kg/day, Oral, Rat F1b

Reproductive toxicity - development Maternal toxicity:, Teratogenicity:, Embryotoxicity: - NOAEL: >/= 80 mg/kg/day, Oral, Rat Maternal toxicity:, Teratogenicity:, Embryotoxicity: - NOAEL: 10 mg/kg/day, Oral, Rat REACH dossier

Specific target organ toxicity - single exposure

STOT - single exposure May cause respiratory irritation

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Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Not relevant.

SECTION 12: Ecological information

Ecotoxicity No information available.

Ecological information on ingredients.

Isotridecanol, ethoxylated

Ecotoxicity Harmful to aquatic life with long lasting effects.

12.1. Toxicity

Acute aquatic toxicity

Acute toxicity - fish No information available.

Acute toxicity - aquatic invertebrates Not available.

Acute toxicity - aquatic plants Not available.

Acute toxicity - microorganisms Not available.

Acute toxicity - terrestrial Not available.

Chronic aquatic toxicity

Chronic toxicity - fish early life stage Not available.

Short term toxicity - embryo and sac fry stages Not available.

Chronic toxicity - aquatic invertebrates Not available.

Ecological information on ingredients.

Isotridecanol, ethoxylated

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 2.5 mg/l, Brachydanio rerio (Zebra Fish)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 1.5 mg/l, Daphnia magna

Acute toxicity - aquatic plants ErC₅₀, 72 hours: 2.5 mg/l, Scenedesmus subspicatus

Acute toxicity - microorganisms EC₅₀, 3 hours: 140 mg/l, Activated sludge

Chronic aquatic toxicity

Chronic toxicity - fish early life stage EC₂₀, 30 days: 1.097 mg/l, Pimephales promelas (Fat-head Minnow)

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|---|---|
| Chronic toxicity - aquatic invertebrates | EC ₅₀ , 21 days: 0.74 mg/l, Daphnia magna |
| Toxicity to soil | > 1000 mg/kg soil dw (Eisenia fetida) 21 days |
| Toxicity to terrestrial plants | EC ₀ > 10 mg/kg soil dw. for growth (Lepidum sativum) 17 days |

1,2-BENZISOTHIAZOLIN-3-ONE

Acute aquatic toxicity

| | |
|---|---|
| LE(C)₅₀ | 0.01 < L(E)C ₅₀ ≤ 0.1 |
| M factor (Acute) | 10 |
| Acute toxicity - fish | LC ₅₀ , 96 hours: 2.15 mg/l, Cyprinodon variegatus (Sheepshead minnow) |
| Acute toxicity - aquatic invertebrates | EC ₅₀ , 48 hours: 2.94 mg/l, Daphnia magna |
| Acute toxicity - aquatic plants | EC ₅₀ , 72 hours: 110 µg/l, Selenastrum capricornutum NOEC, 72 hours: 40.3 µg/l, Selenastrum capricornutum |
| Acute toxicity - microorganisms | EC ₅₀ , 3 hours: 13 mg/l, Activated sludge NOEC, 3 hours: 11 mg/l, Activated sludge |
| Acute toxicity - terrestrial | EC ₅₀ , 14 days: 410.6 mg/kg/day, Eisenia Fetida (Earthworm) NOEC, 14 days: 234.5 mg/kg/day, Eisenia Fetida (Earthworm) |

Triethanolamine

Acute aquatic toxicity

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|---|---|
| Acute toxicity - fish | LC ₅₀ , 96 hours: 11800 mg/l, Pimephales promelas (Fat-head Minnow) |
| Acute toxicity - aquatic invertebrates | EC ₅₀ , 48 hours: 609.88 mg/l, Ceriodaphnia dubia |
| Acute toxicity - aquatic plants | EC ₅₀ , 72 hours: 512 mg/l, Desmodemus subspicatus EC ₁₀ , NOEC, 72 hours: 26 mg/l, Desmodemus subspicatus |
| Acute toxicity - microorganisms | EC ₅₀ , 3 hours: 1000 mg/l, Activated sludge |

Chronic aquatic toxicity

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|---|---|
| Chronic toxicity - fish early life stage | NOEC, : > 1 mg/l, QSAR |
| Chronic toxicity - aquatic invertebrates | EC ₁₀ , LC ₁₀ , NOEC, 21 days: 16 mg/l, Daphnia magna |

SODIUM HYDROXIDE

Acute aquatic toxicity

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|---|---|
| Acute toxicity - fish | LC ₅₀ , 33-189 hours: 96 mg/l, Fish LC ₅₀ , 45.5 hours: 96 mg/l, Oncorhynchus mykiss (Rainbow trout) |
| Acute toxicity - aquatic invertebrates | LC ₅₀ , 48 hours: 30 - < 1000 mg/l, Daphnia magna |

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| Acute toxicity - aquatic plants | Scientifically unjustified. |
| Acute toxicity - microorganisms | EC ₁₀ , 2 minutes: 161 mg/l, Tetrahymena Thermophila EC ₅₀ , 15 minutes: 22 mg/l, Photobacterium phosphoreum luminescence inhibition study |
| <u>Chronic aquatic toxicity</u> | |
| Chronic toxicity - fish early life stage | Not available. |
| Short term toxicity - embryo and sac fry stages | Not available. |
| Chronic toxicity - aquatic invertebrates | Not applicable. |

DIETHANOLAMINE

| | |
|---|--|
| <u>Acute aquatic toxicity</u> | |
| Acute toxicity - fish | LC ₅₀ , 96 hours: 460 mg/l, Oncorhynchus mykiss (Rainbow trout) |
| Acute toxicity - aquatic invertebrates | EC ₅₀ , 48 hours: 30.1 mg/l, Ceriodaphnia dubia |
| Acute toxicity - aquatic plants | EC ₅₀ , 72 hours: 9.5 mg/l, Pseudokirchneriella subcapitata |
| Acute toxicity - microorganisms | EC ₁₀ , 30 minutes: > 1000 mg/l, Activated sludge |
| <u>Chronic aquatic toxicity</u> | |
| Chronic toxicity - aquatic invertebrates | NOEC, 21 days: 1.05 mg/l, Daphnia magna |

BRONOPOL (INN)

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|---|---|
| <u>Acute aquatic toxicity</u> | |
| LE(C)₅₀ | 0.01 < L(E)C ₅₀ ≤ 0.1 |
| M factor (Acute) | 10 |
| Acute toxicity - fish | LC ₅₀ , 96 hours: 35.7 mg/l, Lepomis macrochirus (Bluegill) NOEC, 96 hours: 11.4 mg/l, Lepomis macrochirus (Bluegill) LC ₅₀ , 96 hours: 41.2 mg/l, Oncorhynchus mykiss (Rainbow trout) LC ₅₀ , 96 hours: 57.6 mg/l, Cyprinodon variegatus (Sheepshead minnow) REACH dossier information. |
| Acute toxicity - aquatic invertebrates | EC ₅₀ , 48 hours: 1.4 mg/l, Daphnia magna EC ₅₀ , 48 hours: 3.5 mg/l, Acartia tonsa |

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|---|--|
| Acute toxicity - aquatic plants | ErC50, 72 hours: 0.37 mg/l, Selenastrum capricornutum NOErC, 72 hours: 0.1 mg/l, Selenastrum capricornutum ErC50, 72 hours: 0.25 mg/l, Skeletonema costatum NOEC, 72 hours: 0.08 mg/l, Skeletonema costatum ErC50, 72 hours: 0.89 - 2.84 mg/l, Chlorella vulgaris NOErC, 72 hours: 0.32 mg/l, Chlorella vulgaris ErC50, 72 hours: > 1.0 mg/l, Scenedesmus subspicatus NOErC, 72 hours: 0.1 mg/l, Scenedesmus subspicatus ErC50, 72 hours: 0.67 mg/l, Scenedesmus subspicatus NOErC, 72 hours: 0.1 mg/l, Scenedesmus subspicatus |
| Acute toxicity - microorganisms | EC ₂₀ , 2.5 hours: 2 mg/l, Activated sludge EC ₂₀ , 30 minutes: ca. 20 mg/l, Activated sludge EC ₁₀ , 16 hours: 0.5 mg/l, Pseudomonas putida |
| Acute toxicity - terrestrial | LC ₅₀ , 14 days: > 500 mg/kg, Eisenia Fetida (Earthworm) NOEC, 14 days: 12.8 mg/kg, Eisenia Fetida (Earthworm) |
| <u>Chronic aquatic toxicity</u> | |
| Chronic toxicity - fish early life stage | NOEC, 49 days: 21.5 mg/l, Oncorhynchus mykiss (Rainbow trout) |
| Chronic toxicity - aquatic invertebrates | NOEC, 21 days: 0.53 (nominal); 0.27 (measured) mg/l, Daphnia magna |

12.2. Persistence and degradability

Persistence and degradability The product is biodegradable.

Ecological information on ingredients.

Isotridecanol, ethoxylated

Persistence and degradability 60 - 80% 28 days Rapidly degradable

1,2-BENZISOTHIAZOLIN-3-ONE

Persistence and degradability Not readily biodegradable.

Phototransformation Calculation method.
- Half-life, DT₅₀ : 7,568 hours

Triethanolamine

Persistence and degradability Rapidly degradable

SODIUM HYDROXIDE

Persistence and degradability No data available.

Stability (hydrolysis) Scientifically unjustified.
REACH dossier information.

DIETHANOLAMINE

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Biodegradation Rapidly degradable

BRONOPOL (INN)

Persistence and degradability Rapidly degradable

Biodegradation activated sludge - Degradation 99%: ~ 1 hour
activated sludge - DT₅₀ : 8.3 minutes
REACH dossier information.

12.3. Bioaccumulative potential

Bioaccumulative potential The product is not bioaccumulating.

Ecological information on ingredients.

Isotridecanol, ethoxylated

Bioaccumulative potential Bioaccumulation is unlikely.

Partition coefficient Log Koc: 4.73 QSAR data.

1,2-BENZISOTHIAZOLIN-3-ONE

Bioaccumulative potential Bioaccumulation is unlikely.

Triethanolamine

Bioaccumulative potential Bioaccumulation is unlikely.

Partition coefficient log Pow: -2.3

SODIUM HYDROXIDE

Bioaccumulative potential No potential for bioaccumulation.

Partition coefficient No information required. REACH dossier information.

BRONOPOL (INN)

Bioaccumulative potential Bioaccumulation is unlikely. REACH dossier information.

Partition coefficient log Pow: 0.21 (pH = 5, T = 24°C +/- 1°C); 0.22 (pH = 7, T = 24°C +/- 1°C); -0.34 (pH = 9, T = 24°C +/- 1°C) REACH dossier information.

12.4. Mobility in soil

Mobility The product contains substances which are water-soluble and may spread in water systems.

Ecological information on ingredients.

Isotridecanol, ethoxylated

Adsorption/desorption coefficient - Log Koc: 2.376 - 2.645 @ 25°C QSAR

1,2-BENZISOTHIAZOLIN-3-ONE

Adsorption/desorption coefficient Soil - Log Koc: 9.33 @ 20°C

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Triethanolamine

Adsorption/desorption coefficient Based on available data the classification criteria are not met.

BRONOPOL (INN)

Adsorption/desorption coefficient Expected to have a low potential for adsorption.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB at > 0.1%

Ecological information on ingredients.

Isotridecanol, ethoxylated

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current UK criteria.

1,2-BENZISOTHIAZOLIN-3-ONE

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current UK criteria.

Triethanolamine

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current UK criteria.

SODIUM HYDROXIDE

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current UK criteria.

DIETHANOLAMINE

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current UK criteria.

BRONOPOL (INN)

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current UK criteria.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

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General

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

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

Transport in bulk according to Not applicable.

**Annex II of MARPOL 73/78
and the IBC Code**

SECTION 15: Regulatory information

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

National regulations The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

Authorisations (SI 2020 No. 1577 Annex XIV) No specific authorisations are known for this product.

Restrictions (SI 2020 No. 1577 Annex XVII) No specific restrictions on use are known for this product.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

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|---|--|
| Abbreviations and acronyms used in the safety data sheet | <p>ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.</p> <p>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</p> <p>ATE: Acute Toxicity Estimate.</p> <p>BOD: Biochemical Oxygen Demand.</p> <p>CAS: Chemical Abstracts Service.</p> <p>DNEL: Derived No Effect Level.</p> <p>EC₅₀: 50% of maximal Effective Concentration.</p> <p>GHS: Globally Harmonized System.</p> <p>IARC: International Agency for Research on Cancer.</p> <p>IATA: International Air Transport Association.</p> <p>ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.</p> <p>IMDG: International Maritime Dangerous Goods.</p> <p>LC50: Lethal Concentration to 50 % of a test population.</p> <p>LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).</p> <p>LOAEC: Lowest Observed Adverse Effect Concentration.</p> <p>LOAEL: Lowest Observed Adverse Effect Level.</p> <p>NOAEC: No Observed Adverse Effect Concentration.</p> <p>NOAEL: No Observed Adverse Effect Level.</p> <p>NOEC: No Observed Effect Concentration.</p> <p>PBT: Persistent, Bioaccumulative and Toxic substance.</p> <p>PNEC: Predicted No Effect Concentration.</p> <p>REACH: The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577.</p> <p>RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.</p> <p>SVHC: Substances of Very High Concern.</p> <p>UVCB - Unknown or variable composition, complex reaction products or Biological materials.</p> <p>vPvB: Very Persistent and Very Bioaccumulative.</p> |
| Revision date | 31/01/2021 |
| Revision | 1 |
| SDS number | 21831 |
| Hazard statements in full | <p>H302 Harmful if swallowed.</p> <p>H312 Harmful in contact with skin.</p> <p>H314 Causes severe skin burns and eye damage.</p> <p>H315 Causes skin irritation.</p> <p>H317 May cause an allergic skin reaction.</p> <p>H318 Causes serious eye damage.</p> <p>H319 Causes serious eye irritation.</p> <p>H335 May cause respiratory irritation.</p> <p>H373 May cause damage to organs through prolonged or repeated exposure.</p> <p>H400 Very toxic to aquatic life.</p> <p>H412 Harmful to aquatic life with long lasting effects.</p> <p>EUH208 Contains 1,2-BENZISOTHIAZOLIN-3-ONE. May produce an allergic reaction.</p> |