

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

1.1. Product identifier

Product form : Mixture
Trade name : Lijmverwijderaar
Type of product : Detergent

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

1.2.1. Relevant identified uses

Intended for general public
Main use category : Consumer use, Professional use
Use of the substance/mixture : Cleaning agent

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Rectavit N.V. N.V.
Ambachtenlaan 4
9080 Lochristi
Belgium
T +32 9 216 85 20 - F +32 9 216 85 30
msds@rectavit.be - www.Rectavit.be

1.4. Emergency telephone number

| Country | Organisation/Company | Address | Emergency number | Comment |
|---------|--------------------------------------------------------------------------|------------------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Belgium | Centre Anti-Poisons/Antigifcentrum c/o Hôpital Militaire Reine Astrid | Rue Bruyn 1 1120 Brussels | +32 70 245 245 | Please dial: 070 245 245 for any urgent questions about intoxication (free of charge 24/7), if not accessible, dial: 02 264 96 30 (standard fee) |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 1, Sub-Category 1B H314

Serious eye damage/eye irritation, Category 1 H318

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Causes severe skin burns and eye damage. Causes serious eye damage.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



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GHS05

| | |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Signal word (CLP) | : Danger |
| Contains | : potassium hydroxide; 2-aminoethanol; isotridecanol, ethoxylated |
| Hazard statements (CLP) | : H314 - Causes severe skin burns and eye damage. |
| Precautionary statements (CLP) | : P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children. P280 - Wear protective gloves, protective clothing, eye protection, face protection. P301+P330+P331+P310 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER, a doctor. P303+P361+P353+P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER, a doctor. P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER, a doctor. P405 - Store locked up. P501 - Dispose of contents, container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. |
| Extra phrases | : Do not use in paint spraying equipment. |

2.3. Other hazards

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

| Component | |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| potassium hydroxide (1310-58-3) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| 2-(2-butoxyethoxy)ethanol (112-34-5) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| 2-aminoethanol (141-43-5) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| trisodium nitrilotriacetate (5064-31-3) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| isotridecanol, ethoxylated (69011-36-5) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------|
| 2-(2-butoxyethoxy)ethanol substance with national workplace exposure limit(s) (BE); substance with a Community workplace exposure limit | CAS-No.: 112-34-5 EC-No.: 203-961-6 EC Index-No.: 603-096-00-8 REACH-no: 01-2119475104-44 | $\geq 10 - < 25$ | Eye Irrit. 2, H319 |

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| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2-aminoethanol substance with national workplace exposure limit(s) (BE); substance with a Community workplace exposure limit | CAS-No.: 141-43-5 EC-No.: 205-483-3 EC Index-No.: 603-030-00-8 REACH-no: 01-2119486455-28 | ≥ 1 – < 5 | Acute Tox. 4 (Inhalation), H332 (ATE=1,5 mg/l/4h) Acute Tox. 4 (Dermal), H312 (ATE=1100 mg/kg bodyweight) Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Corr. 1B, H314 |
| potassium hydroxide substance with national workplace exposure limit(s) (BE) | CAS-No.: 1310-58-3 EC-No.: 215-181-3 EC Index-No.: 019-002-00-8 REACH-no: 01-2119487136-33 | ≥ 1 – < 5 | Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Corr. 1A, H314 |
| isotridecanol, ethoxylated | CAS-No.: 69011-36-5 EC-No.: 500-241-6 | ≥ 1 – < 5 | Acute Tox. 4 (Oral), H302 (ATE=300 mg/kg bodyweight) Eye Dam. 1, H318 |
| trisodium nitrilotriacetate | CAS-No.: 5064-31-3 EC-No.: 225-768-6 EC Index-No.: 607-620-00-6 REACH-no: 01-2119519239-36 | ≥ 0,1 – < 1 | Carc. 2, H351 Acute Tox. 4 (Oral), H302 (ATE=1740 mg/kg bodyweight) Eye Irrit. 2, H319 |

Specific concentration limits:

| Name | Product identifier | Specific concentration limits (%) |
|-----------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| 2-aminoethanol | CAS-No.: 141-43-5 EC-No.: 205-483-3 EC Index-No.: 603-030-00-8 REACH-no: 01-2119486455-28 | (5 ≤ C ≤ 100) STOT SE 3, H335 |
| potassium hydroxide | CAS-No.: 1310-58-3 EC-No.: 215-181-3 EC Index-No.: 019-002-00-8 REACH-no: 01-2119487136-33 | (0,5 ≤ C < 2) Skin Irrit. 2, H315 (0,5 ≤ C < 2) Eye Irrit. 2, H319 (2 ≤ C < 5) Skin Corr. 1B, H314 (5 ≤ C < 100) Skin Corr. 1A, H314 |
| isotridecanol, ethoxylated | CAS-No.: 69011-36-5 EC-No.: 500-241-6 | (1 ≤ C < 10) Eye Irrit. 2, H319 (10 ≤ C < 100) Eye Dam. 1, H318 |
| trisodium nitrilotriacetate | CAS-No.: 5064-31-3 EC-No.: 225-768-6 EC Index-No.: 607-620-00-6 REACH-no: 01-2119519239-36 | (5 ≤ C < 100) Carc. 2, H351 |

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

: Call a physician immediately.

First-aid measures after inhalation

: Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact

: Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.

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| | |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures after eye contact | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. |
| First-aid measures after ingestion | : Rinse mouth. Do not induce vomiting. Call a physician immediately. |

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

| | |
|-------------------------------------|---------------------------|
| Symptoms/effects after skin contact | : Burns. |
| Symptoms/effects after eye contact | : Serious damage to eyes. |
| Symptoms/effects after ingestion | : Burns. |

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|------------------------------|--------------------------------------------------|
| Suitable extinguishing media | : Water spray. Dry powder. Foam. Carbon dioxide. |
|------------------------------|--------------------------------------------------|

5.2. Special hazards arising from the substance or mixture

| | |
|--------------------------------------------------|--------------------------------|
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |
|--------------------------------------------------|--------------------------------|

5.3. Advice for firefighters

| | |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------|
| Emergency procedures | : Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. |
|----------------------|---------------------------------------------------------------------------------------------------------------|

6.1.2. For emergency responders

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

| | |
|-------------------------|-----------------------------------------------------------------|
| Methods for cleaning up | : Take up liquid spill into absorbent material. |
| Other information | : Dispose of materials or solid residues at an authorized site. |

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

| | |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautions for safe handling | : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Wear personal protective equipment. |
| Hygiene measures | : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

| potassium hydroxide (1310-58-3) | |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Belgium - Occupational Exposure Limits | |
| Local name | Potassium (hydroxyde de) # Kaliumhydroxide |
| OEL STEL | 2 mg/m ³ (La mention "M" indique que lors d'une exposition supérieure à la valeur limite, des irritations apparaissent ou un danger d'intoxication aiguë existe. Le procédé de travail doit être conçu de telle façon que l'exposition ne dépasse jamais la valeur limite. Lors des mesurages, la période d'échantillonnage doit être aussi courte que possible afin de pouvoir effectuer des mesurages fiables. Le résultat des mesurages est calculé en fonction de la période d'échantillonnage.) |
| Remark | M: la mention "M" indique que lors d'une exposition supérieure à la valeur limite, des irritations apparaissent ou un danger d'intoxication aiguë existe. Le procédé de travail doit être conçu de telle façon que l'exposition ne dépasse jamais la valeur limite. Lors des mesurages, la période d'échantillonnage doit être aussi courte que possible afin de pouvoir effectuer des mesurages fiables. Le résultat des mesurages est calculé en fonction de la période d'échantillonnage. # M: de vermelding "M" duidt aan dat bij de blootstelling boven de grenswaarde irritatie optreedt of er gevaar bestaat voor acute vergiftiging. Het werkproces moet zo zijn ontworpen dat de blootstelling de grenswaarde nooit overschrijdt. Bij een controle geldt dat de bemonsterde periode zo kort mogelijk moet zijn om een betrouwbare meting te kunnen verrichten. Het meetresultaat wordt dan gerelateerd aan de beschouwde periode. |
| Regulatory reference | Koninklijk besluit/Arrêté royal 11/05/2021 |
| 2-(2-butoxyethoxy)ethanol (112-34-5) | |
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| Local name | 2-(2-Butoxyethoxy)ethanol |
| IOEL TWA | 67,5 mg/m ³ |
| IOEL TWA [ppm] | 10 ppm |
| IOEL STEL | 101,2 mg/m ³ |
| IOEL STEL [ppm] | 15 ppm |
| Regulatory reference | COMMISSION DIRECTIVE 2006/15/EC |
| Belgium - Occupational Exposure Limits | |
| Local name | 2-(2-Butoxyéthoxy)éthanol # 2-(2-Butoxyethoxy)ethanol |
| OEL TWA | 67,5 mg/m ³ |
| OEL TWA [ppm] | 10 ppm |
| OEL STEL | 101,2 mg/m ³ |
| OEL STEL [ppm] | 15 ppm |
| Regulatory reference | Koninklijk besluit/Arrêté royal 19/11/2020 |

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| 2-aminoethanol (141-43-5) | |
|-----------------------------------------------------------|-----------------------|
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| IOEL TWA | 2,5 mg/m ³ |
| IOEL TWA [ppm] | 1 ppm |
| IOEL STEL | 7,6 mg/m ³ |
| IOEL STEL [ppm] | 3 ppm |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 2,5 mg/m ³ |
| OEL TWA [ppm] | 1 ppm |
| OEL STEL | 7,6 mg/m ³ |
| OEL STEL [ppm] | 3 ppm |

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses (EN 166)

8.2.2.2. Skin protection

Skin and body protection:

Protective clothing (EN 14605 or EN 13034)

Hand protection:

Protective gloves against chemicals (EN 374)

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

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8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-------------------------------------------------|---------------------------------|
| Physical state | : Liquid |
| Colour | : Colourless. |
| Odour | : ether-like. |
| Odour threshold | : Not available |
| Melting point | : Not applicable |
| Freezing point | : Not available |
| Boiling point | : Not available |
| Flammability | : Non flammable. |
| Lower explosion limit | : Not available |
| Upper explosion limit | : Not available |
| Flash point | : N.A. |
| Auto-ignition temperature | : Not available |
| Decomposition temperature | : Not available |
| pH | : 13 |
| pH solution concentration | : 100 % |
| Viscosity, kinematic | : Not available |
| Solubility | : Miscible with water. |
| Partition coefficient n-octanol/water (Log Kow) | : Not available |
| Vapour pressure | : Not available |
| Vapour pressure at 50°C | : Not available |
| Density | : 1,02 g/cm ³ (20°C) |
| Relative density | : Not available |
| Relative vapour density at 20°C | : Not available |
| Particle characteristics | : Not applicable |

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

VOC content : 5 %

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

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10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

potassium hydroxide (1310-58-3)

| | |
|---------------|----------------------------------------------------------------------------------------------------------------|
| LD50 oral rat | 333 – 388 mg/kg bodyweight (Equivalent or similar to OECD 425, Rat, Male, Experimental value, Oral, 14 day(s)) |
| LD50 oral | 333 mg/kg bodyweight |

2-(2-butoxyethoxy)ethanol (112-34-5)

| | |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------|
| LD50 oral | 2410 – 5530 mg/kg bodyweight (Equivalent or similar to OECD 401, Mouse, Male, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rabbit | 2764 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male, Experimental value, Dermal, 14 day(s)) |
| LD50 dermal | 2764 mg/kg bodyweight |
| LC50 Inhalation - Rat (Dust/Mist) | > 196 mg/l |

2-aminoethanol (141-43-5)

| | |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------|
| LD50 oral rat | 1089 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s)) |
| LD50 oral | 1515 mg/kg bodyweight |
| LD50 dermal rabbit | 1018 mg/kg (24 h, Rabbit, Inconclusive, insufficient data, Dermal) |
| LD50 dermal | 2504 mg/kg bodyweight |
| LC50 Inhalation - Rat | > 1,3 mg/l air (6 h, Rat, Male / female, Experimental value, (maximum achievable concentration), Inhalation (vapours)) |
| LC50 Inhalation - Rat (Dust/Mist) | 136 mg/l |

trisodium nitrilotriacetate (5064-31-3)

| | |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| LD50 oral rat | 1740 mg/kg bodyweight (EU Method B.1: Acute Toxicity (Oral), Rat, Male / female, Read-across, Oral) |
| LD50 oral | 1740 mg/kg bodyweight |
| LD50 dermal rabbit | > 2000 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value, Anhydrous form, Dermal) |
| LD50 dermal | > 2000 mg/kg bodyweight |
| LC50 Inhalation - Rat | > 5 mg/l air (4 h, Rat, Male, Experimental value, Anhydrous form, Inhalation (aerosol)) |
| LC50 Inhalation - Rat (Dust/Mist) | > 5000 mg/l |

isotridecanol, ethoxylated (69011-36-5)

| | |
|--------------------|--------------------------------------------------------------------------------------------|
| LD50 oral rat | 300 – 2000 mg/kg own test results |
| LD50 dermal rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |
| LD50 dermal rabbit | ≈ 5960 mg/kg bodyweight Animal: rabbit, Animal sex: male |

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| isotridecanol, ethoxylated (69011-36-5) | |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LD50 dermal | > 5000 mg/kg bodyweight (Literature study, Dermal) |
| LC50 Inhalation - Rat | > 1,6 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity) |
| Skin corrosion/irritation | : Causes severe skin burns. pH: 13 |
| potassium hydroxide (1310-58-3) | |
| pH | 13,5 (0.56 %, 25 °C) |
| 2-(2-butoxyethoxy)ethanol (112-34-5) | |
| pH | No data available in the literature |
| 2-aminoethanol (141-43-5) | |
| pH | 12,1 (100 g/l) |
| isotridecanol, ethoxylated (69011-36-5) | |
| pH | 5 – 7 (2 %, 20 °C) |
| Serious eye damage/irritation | : Causes serious eye damage. pH: 13 |
| potassium hydroxide (1310-58-3) | |
| pH | 13,5 (0.56 %, 25 °C) |
| 2-(2-butoxyethoxy)ethanol (112-34-5) | |
| pH | No data available in the literature |
| 2-aminoethanol (141-43-5) | |
| pH | 12,1 (100 g/l) |
| isotridecanol, ethoxylated (69011-36-5) | |
| pH | 5 – 7 (2 %, 20 °C) |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| trisodium nitrilotriacetate (5064-31-3) | |
| NOAEL (chronic, oral, animal/male, 2 years) | 100 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 451 (Carcinogenicity Studies), Remarks on results: other: |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : Not classified |
| 2-(2-butoxyethoxy)ethanol (112-34-5) | |
| NOAEL (oral, rat, 90 days) | 250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents) |
| trisodium nitrilotriacetate (5064-31-3) | |
| NOAEL (oral, rat, 90 days) | 9 mg/kg bodyweight Animal: rat, Animal sex: male |
| NOAEL (dermal, rat/rabbit, 90 days) | 50 mg/kg bodyweight Animal: rabbit |

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| isotridecanol, ethoxylated (69011-36-5) | |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| NOAEL (oral, rat, 90 days) | ≥ 500 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |

Aspiration hazard : Not classified

| potassium hydroxide (1310-58-3) | |
|---------------------------------|------------------------|
| Viscosity, kinematic | Not applicable (solid) |

| 2-(2-butoxyethoxy)ethanol (112-34-5) | |
|--------------------------------------|-------------------------------------|
| Viscosity, kinematic | No data available in the literature |

| 2-aminoethanol (141-43-5) | |
|---------------------------|--------------------------------------------------------------------|
| Viscosity, kinematic | 23,5 mm ² /s (20 °C, EN ISO 3104: Capillary viscometer) |

| isotridecanol, ethoxylated (69011-36-5) | |
|-----------------------------------------|-------------------------------------|
| Viscosity, kinematic | No data available in the literature |

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Before neutralisation, the product may represent a danger to aquatic organisms.
Hazardous to the aquatic environment, short-term (acute) : Not classified
Hazardous to the aquatic environment, long-term (chronic) : Not classified
Not rapidly degradable

| potassium hydroxide (1310-58-3) | |
|---------------------------------|---------|
| LC50 - Fish [1] | 80 mg/l |

| 2-(2-butoxyethoxy)ethanol (112-34-5) | |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| LC50 - Fish [1] | 1300 mg/l (Equivalent or similar to OECD 203, 96 h, Lepomis macrochirus, Static system, Fresh water, Experimental value, Nominal concentration) |
| EC50 - Crustacea [1] | > 100 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect) |
| EC50 - Other aquatic organisms [1] | > 1000 mg/l waterflea |
| EC50 - Other aquatic organisms [2] | > 100 mg/l |
| EC50 96h - Algae [1] | > 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |
| ErC50 algae | > 100 mg/l (OECD 201: Alga, Growth Inhibition Test, 96 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration) |

| 2-aminoethanol (141-43-5) | |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| LC50 - Fish [1] | 349 mg/l (EU Method C.1, 96 h, Cyprinus carpio, Semi-static system, Fresh water, Experimental value, GLP) |
| EC50 - Crustacea [1] | 27 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Nominal concentration) |
| EC50 - Other aquatic organisms [1] | 65 mg/l waterflea |

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| 2-aminoethanol (141-43-5) | |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| EC50 - Other aquatic organisms [2] | 2,5 mg/l |
| ErC50 algae | 2,8 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP) |
| trisodium nitrilotriacetate (5064-31-3) | |
| LC50 - Fish [1] | 114 mg/l Test organisms (species): Pimephales promelas |
| EC50 - Other aquatic organisms [1] | 98 mg/l waterflea |
| EC50 - Other aquatic organisms [2] | > 91,5 mg/l |
| EC50 72h - Algae [1] | > 91,5 mg/l (EU Method C.3, Scenedesmus subspicatus, Static system, Fresh water, Experimental value, Anhydrous form) |
| EC50 72h - Algae [2] | > 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |
| NOEC (chronic) | 9,3 mg/l Test organisms (species): other aquatic arthropod: Duration: '147 d' |
| NOEC chronic fish | > 54 mg/l Test organisms (species): Pimephales promelas Duration: '224 d' |
| TLM - Fish [1] | 103 mg/l (APHA, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Anhydrous form) |
| isotridecanol, ethoxylated (69011-36-5) | |
| LC50 - Fish [1] | 10 – 100 mg/l |
| EC50 - Crustacea [1] | 1 – 10 mg/l Test organisms (species): Daphnia magna |
| ErC50 algae | 1 – 10 mg/l |
| NOEC (chronic) | 220 mg/l |
| 12.2. Persistence and degradability | |
| potassium hydroxide (1310-58-3) | |
| Persistence and degradability | Biodegradability: not applicable. |
| Chemical oxygen demand (COD) | Not applicable (inorganic) |
| ThOD | Not applicable (inorganic) |
| 2-(2-butoxyethoxy)ethanol (112-34-5) | |
| Persistence and degradability | Readily biodegradable in water. |
| 2-aminoethanol (141-43-5) | |
| Persistence and degradability | Biodegradable in the soil. Readily biodegradable in water. |
| Biochemical oxygen demand (BOD) | 0,8 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 1,34 g O ₂ /g substance |
| ThOD | 2,49 g O ₂ /g substance |
| trisodium nitrilotriacetate (5064-31-3) | |
| Persistence and degradability | Biodegradable in the soil. Readily biodegradable in water. |
| isotridecanol, ethoxylated (69011-36-5) | |
| Persistence and degradability | Readily biodegradable in water. |

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12.3. Bioaccumulative potential

potassium hydroxide (1310-58-3)

| | |
|-------------------------------------------------|----------------------|
| Partition coefficient n-octanol/water (Log Pow) | 0,75 |
| Bioaccumulative potential | Not bioaccumulative. |

2-(2-butoxyethoxy)ethanol (112-34-5)

| | |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Partition coefficient n-octanol/water (Log Pow) | 1 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 20 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |

2-aminoethanol (141-43-5)

| | |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Partition coefficient n-octanol/water (Log Pow) | -2,3 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C) |
| Bioaccumulative potential | Not bioaccumulative. |

trisodium nitrilotriacetate (5064-31-3)

| | |
|-------------------------------------------------|----------------------------------------------|
| Partition coefficient n-octanol/water (Log Pow) | -10,08 (Conclusion by analogy, Other, 25 °C) |
| Bioaccumulative potential | Not bioaccumulative. |

isotridecanol, ethoxylated (69011-36-5)

| | |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------|
| BCF - Fish [1] | 232,5 l/kg (72 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value) |
| Partition coefficient n-octanol/water (Log Pow) | 6,4 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 22 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |

12.4. Mobility in soil

potassium hydroxide (1310-58-3)

| | |
|-----------------|---------------------------------------|
| Surface tension | No data available in the literature |
| Ecology - soil | Low potential for adsorption in soil. |

2-(2-butoxyethoxy)ethanol (112-34-5)

| | |
|------------------------------------------------------------|--------------------------------------------------------------------------|
| Surface tension | 67,5 mN/m (20 °C, 1 g/l, OECD 115: Surface Tension of Aqueous Solutions) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 0,642 – 1 (log Koc, SRC PCKOCWIN v2.0, Calculated value) |
| Ecology - soil | Highly mobile in soil. |

2-aminoethanol (141-43-5)

| | |
|------------------------------------------------------------|-------------------------------------|
| Surface tension | No data available in the literature |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 1,16 (log Koc, Calculated value) |
| Ecology - soil | Highly mobile in soil. |

trisodium nitrilotriacetate (5064-31-3)

| | |
|----------------|---------------------------------------|
| Ecology - soil | Low potential for adsorption in soil. |
|----------------|---------------------------------------|

isotridecanol, ethoxylated (69011-36-5)

| | |
|------------------------------------------------------------|--------------------------------------------------|
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 2,376 – 2,645 (log Koc, SRC PCKOCWIN v2.0, QSAR) |
|------------------------------------------------------------|--------------------------------------------------|

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isotridecanol, ethoxylated (69011-36-5)

| | |
|----------------|---------------------------------------|
| Ecology - soil | Low potential for adsorption in soil. |
|----------------|---------------------------------------|

12.5. Results of PBT and vPvB assessment

Component

| | |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| potassium hydroxide (1310-58-3) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| 2-(2-butoxyethoxy)ethanol (112-34-5) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| 2-aminoethanol (141-43-5) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| trisodium nitrilotriacetate (5064-31-3) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| isotridecanol, ethoxylated (69011-36-5) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Waste treatment methods | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Sewage disposal recommendations | : Do not discharge into drains or the environment. |
| Ecology - waste materials | : Avoid release to the environment. |
| European List of Waste (LoW) code | : 20 01 29* - detergents containing dangerous substances 15 01 10* - packaging containing residues of or contaminated by dangerous substances |

SECTION 14: Transport information






In accordance with ADR / IMDG / IATA / ADN / RID /

| ADR | IMDG | IATA | ADN | RID |
|---------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|
| 14.1. UN number or ID number | | | | |
| UN 1760 | UN 1760 | UN 1760 | UN 1760 | UN 1760 |
| 14.2. UN proper shipping name | | | | |
| CORROSIVE LIQUID, N.O.S. (potassium hydroxide) | CORROSIVE LIQUID, N.O.S. (potassium hydroxide) | Corrosive liquid, n.o.s. (potassium hydroxide) | CORROSIVE LIQUID, N.O.S. (potassium hydroxide) | CORROSIVE LIQUID, N.O.S. (potassium hydroxide) |
| Transport document description | | | | |
| UN 1760 CORROSIVE LIQUID, N.O.S. (potassium hydroxide), 8, III, (E) | UN 1760 CORROSIVE LIQUID, N.O.S. (potassium hydroxide), 8, III | UN 1760 Corrosive liquid, n.o.s. (potassium hydroxide), 8, III | UN 1760 CORROSIVE LIQUID, N.O.S. (potassium hydroxide), 8, III | UN 1760 CORROSIVE LIQUID, N.O.S. (potassium hydroxide), 8, III |
| 14.3. Transport hazard class(es) | | | | |
| 8 | 8 | 8 | 8 | 8 |

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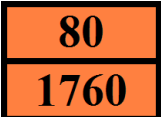

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| ADR | IMDG | IATA | ADN | RID |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |
| 14.4. Packing group | | | | |
| III | III | III | III | III |
| 14.5. Environmental hazards | | | | |
| Dangerous for the environment: No | Dangerous for the environment: No Marine pollutant: No | Dangerous for the environment: No | Dangerous for the environment: No | Dangerous for the environment: No |
| No supplementary information available | | | | |

14.6. Special precautions for user

Overland transport

| | |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Classification code (ADR) | : C9 |
| Special provisions (ADR) | : 274 |
| Limited quantities (ADR) | : 5I |
| Excepted quantities (ADR) | : E1 |
| Packing instructions (ADR) | : P001, IBC03, LP01, R001 |
| Mixed packing provisions (ADR) | : MP19 |
| Portable tank and bulk container instructions (ADR) | : T7 |
| Portable tank and bulk container special provisions (ADR) | : TP1, TP28 |
| Tank code (ADR) | : L4BN |
| Vehicle for tank carriage | : AT |
| Transport category (ADR) | : 3 |
| Special provisions for carriage - Packages (ADR) | : V12 |
| Hazard identification number (Kemler No.) | : 80 |
| Orange plates | :   |
| Tunnel restriction code (ADR) | : E |

Transport by sea

| | |
|------------------------------------|----------------------------------------------------|
| Special provisions (IMDG) | : 223, 274 |
| Limited quantities (IMDG) | : 5 L |
| Excepted quantities (IMDG) | : E1 |
| Packing instructions (IMDG) | : P001, LP01 |
| IBC packing instructions (IMDG) | : IBC03 |
| Tank instructions (IMDG) | : T7 |
| Tank special provisions (IMDG) | : TP1, TP28 |
| EmS-No. (Fire) | : F-A |
| EmS-No. (Spillage) | : S-B |
| Stowage category (IMDG) | : A |
| Stowage and handling (IMDG) | : SW2 |
| Properties and observations (IMDG) | : Causes burns to skin, eyes and mucous membranes. |

Air transport

| | |
|----------------------------------------------|--------|
| PCA Excepted quantities (IATA) | : E1 |
| PCA Limited quantities (IATA) | : Y841 |
| PCA limited quantity max net quantity (IATA) | : 1L |
| PCA packing instructions (IATA) | : 852 |
| PCA max net quantity (IATA) | : 5L |
| CAO packing instructions (IATA) | : 856 |
| CAO max net quantity (IATA) | : 60L |

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Special provisions (IATA) : A3, A803
ERG code (IATA) : 8L

Inland waterway transport

Classification code (ADN) : C9
Special provisions (ADN) : 274
Limited quantities (ADN) : 5 L
Excepted quantities (ADN) : E1
Carriage permitted (ADN) : T
Equipment required (ADN) : PP, EP
Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : C9
Special provisions (RID) : 274
Limited quantities (RID) : 5L
Excepted quantities (RID) : E1
Packing instructions (RID) : P001, IBC03, LP01, R001
Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions (RID) : T7
Portable tank and bulk container special provisions (RID) : TP1, TP28
Tank codes for RID tanks (RID) : L4BN
Transport category (RID) : 3
Special provisions for carriage – Packages (RID) : W12
Colis express (express parcels) (RID) : CE8
Hazard identification number (RID) : 80

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

| EU restriction list (REACH Annex XVII) | | |
|----------------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reference code | Applicable on | Entry title or description |
| 3(b) | Lijmverwijderaar ; 2-(2-butoxyethoxy)ethanol ; 2-aminoethanol ; isotridecanol, ethoxylated | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10 |
| 55. | 2-(2-butoxyethoxy)ethanol | 2-(2-butoxyethoxy)ethanol (DEGBE) |

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

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VOC Directive (2004/42)

VOC content : 5 %

Detergent Regulation (648/2004)

| Labelling of contents | |
|----------------------------------------------------------------------|-----|
| Component | % |
| NTA (nitrilotriacetic acid) and salts thereof, non-ionic surfactants | <5% |

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

| Indication of changes | | | |
|-----------------------|------------------------------------------------------------------------------------------------|--------|----------|
| Section | Changed item | Change | Comments |
| | according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 | | |

Abbreviations and acronyms:

| | |
|--------|-------------------------------------------------------------------------------------------------|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| BLV | Biological limit value |
| BOD | Biochemical oxygen demand (BOD) |
| COD | Chemical oxygen demand (COD) |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC-No. | European Community number |
| EC50 | Median effective concentration |
| EN | European Standard |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |

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| Abbreviations and acronyms: | |
|-----------------------------|------------------------------------------------------------------------------|
| LOAEL | Lowest Observed Adverse Effect Level |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| OEL | Occupational Exposure Limit |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |
| STP | Sewage treatment plant |
| ThOD | Theoretical oxygen demand (ThOD) |
| TLM | Median Tolerance Limit |
| VOC | Volatile Organic Compounds |
| CAS-No. | Chemical Abstract Service number |
| N.O.S. | Not Otherwise Specified |
| vPvB | Very Persistent and Very Bioaccumulative |
| ED | Endocrine disrupting properties |

| Full text of H- and EUH-statements: | |
|-------------------------------------|--------------------------------------------------------|
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal), Category 4 |
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Carc. 2 | Carcinogenicity, Category 2 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| H290 | May be corrosive to metals. |
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H351 | Suspected of causing cancer. |
| Met. Corr. 1 | Corrosive to metals, Category 1 |
| Skin Corr. 1A | Skin corrosion/irritation, Category 1, Sub-Category 1A |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1, Sub-Category 1B |

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Full text of H- and EUH-statements:

| | |
|---------------|--------------------------------------------------------------------------------------------|
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| STOT SE 3 | Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation |

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

| | | |
|---------------|------|--------------------|
| Skin Corr. 1B | H314 | Calculation method |
| Eye Dam. 1 | H318 | Calculation method |

Safety Data Sheet (SDS), EU-2023-1

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.