Safety Data Sheet

according to Regulation (EU) 2015/830 Date of issue: 07/04/2017 Revision date: 07/04/2017 Version: 2.1

| Product form | : Mixtures | 2.3. |
|---|---|---|
| Trade name | : Det&Rinse | No ac |
| Product code | : DB1016A0 | |
| | | SEC |
| 2. Relevant identified uses of the s | substance or mixture and uses advised against | 3.1. |
| 2.1. Relevant identified uses | | Not a |
| Main use category | : Detergents | 3.2. |
| ndustrial/Professional use spec | : Professional | |
| Jse of the substance/mixture | : Oven cleaners | |
| 2.2. Uses advised against | | Na |
| • | ad in the tasknical degumentation is to be considered incorrect/pat recommended | |
| Details of the supplier of the saf | nd in the technical documentation is to be considered incorrect/not recommended | Dip |
| INOX SpA | ety data sheet | sub |
| /IA MAJORANA ,22 55010 Cadoneghe - Italy T +39 049 86.57.511 - F +39 049 86.57.55 Det.Rinse@unox.it | 5 | po |
| 4. Emergency telephone number | | Alc |
| Emergency number (24h/24) | : Tel. (+)1 760 476 3961 Tel (+)0-800-680-0425 (only UK) | D-4 |
| | Access Code: 334577 | Sp |
| lational Daisona Information Societa (NDI) | 2) Email: director himingham unit@nnia.org | Na |
| lational Poisons Information Service (NPIS | · · · · · · · · · · · · · · · · · · · | pot |
| | Website: http://www.npis.org/ | |
| ECTION 2: Hazards identificatio | n | |
| I. Classification of the substance of | or mixture | Full te |
| assification according to Regulation (E | C) No. 1272/2008 [CLP] | SEC |
| Corrective to motels. Cotogony 1 | H290 | 4.1. |
| Corrosive to metals, Category 1 | H314 | |
| kin corrosion/irritation, Category 1A | | Firs |
| erious eye damage/eye irritation, Categor | y i H318 | FIIS |
| Il text of H statements : see section 16 | | Firs |
| Iverse physicochemical, human health | and environmental effects | |
| | | Firs |
| additional information available | | |
| | | _ |
| 2. Label elements | | First |
| 2. Label elements belling according to Regulation (EC) No | o. 1272/2008 [CLP] | Firs |
| 2. Label elements belling according to Regulation (EC) No | p. 1272/2008 [CLP] : | 4.2. |
| 2. Label elements belling according to Regulation (EC) No | o. 1272/2008 [CLP] : | |
| 2. Label elements belling according to Regulation (EC) No | o. 1272/2008 [CLP] : | 4.2. |
| 2. Label elements belling according to Regulation (EC) No | o. 1272/2008 [CLP] : | 4.2. Sym |
| 2. Label elements belling according to Regulation (EC) No | 0. 1272/2008 [CLP] : : : GHS05 | <mark>4.2.</mark> Sym Sym |
| 2. Label elements belling according to Regulation (EC) No lazard pictograms (CLP) | | <mark>4.2.</mark> Syn Syn Syn Syn |
| 2. Label elements belling according to Regulation (EC) No lazard pictograms (CLP) | : GHS05 | 4.2. Sym Sym Sym Sym 4.3. |
| Label elements belling according to Regulation (EC) No lazard pictograms (CLP) ignal word (CLP) lazardous ingredients | : GHS05 : Danger : potassium hydroxide, caustic potash : H290 - May be corrosive to metals | 4.2. Sym Sym Sym 4.3. Keep |
| 2. Label elements belling according to Regulation (EC) No lazard pictograms (CLP) ignal word (CLP) lazardous ingredients lazard statements (CLP) | : GHS05 CHS0 | 4.2. Sym Sym Sym 4.3. Keep where |
| 2. Label elements belling according to Regulation (EC) No lazard pictograms (CLP) Signal word (CLP) lazardous ingredients lazard statements (CLP) | : GHS05 : Danger : potassium hydroxide, caustic potash : H290 - May be corrosive to metals H314 - Causes severe skin burns and eye damage : P264 - Wash hands, forearms and face thoroughly after handling | 4.2. Sym Sym Sym 4.3. Keep where SEC |
| 2 additional information available 2. Label elements abelling according to Regulation (EC) No lazard pictograms (CLP) Signal word (CLP) lazardous ingredients lazard statements (CLP) Precautionary statements (CLP) | : GHS05 CHS0 | 4.2. Sym Sym Sym 4.3. Keep where |

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P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P310 - Immediately call a POISON CENTER or doctor P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

Other hazards

additional information available

CTION 3: Composition/information on ingredients

Substances

applicable

Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] | |
|---|--|---|--|--|
| Dipropylene glycol monomethyl ether- substance with a Community workplace exposure limit | (CAS No) 34590-94-8 (EC no) 252-104-2 (REACH-no) 01-2119450011-60 | 1 - 5 | Not classified | |
| potassium hydroxide, caustic potash | (CAS No) 1310-58-3 (EC no) 215-181-3 (EC index no) 019-002-00-8 (REACH-no) 01-2119487136-33 | 1 - 4.5 | Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314 | |
| Alcohols, C12-14, ethoxylated propoxylated | (CAS No) 68439-51-0 (EC no) 614-484-1 (REACH-no) Not available | 1 - 3 | Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 3, H412 | |
| D-Glucopyranose, oligomeric, decyl octyl glycosides | (CAS No) 68515-73-1 (EC no) 500-220-1 (REACH-no) 01-2119488530-36 | 1 - 3 | Eye Dam. 1, H318 Aquatic Chronic 3, H412 | |
| Specific concentration limits: | | | | |
| Name | Product identifier | Specific c | Specific concentration limits | |
| potassium hydroxide, caustic potash | (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 <<br="">(2 =<c 5)<="" <="" td=""><td colspan="2">(0.5 =<c 2)="" 2,="" <="" h315<br="" irrit.="" skin="">(0.5 =<c 2)="" 2,="" <="" eye="" h319<br="" irrit.="">(2 =<c 1b,="" 5)="" <="" corr.="" h314<br="" skin="">(C >= 5) Skin Corr. 1A, H314</c></c></c></td></c></c> | (0.5 = <c 2)="" 2,="" <="" h315<br="" irrit.="" skin="">(0.5 =<c 2)="" 2,="" <="" eye="" h319<br="" irrit.="">(2 =<c 1b,="" 5)="" <="" corr.="" h314<br="" skin="">(C >= 5) Skin Corr. 1A, H314</c></c></c> | |

text of H-statements: see section 16

| 4.1. Description of first aid measures | |
|--|---|
| First-aid measures general | : Self-protection of the first aider. |
| First-aid measures after inhalation | : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention immediately. |
| First-aid measures after skin contact | : Immediately rinse with plenty of water (for at least 15 minutes). Remove contaminated clothin immediately and dispose of safely. Wash contaminated clothing before reuse. Seek medical attention immediately. |
| First-aid measures after eye contact | In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minute holding eyelids apart. Subsequently consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. Protect uninjured eye. |
| First-aid measures after ingestion | Immediately call a POISON CENTER or doctor/ physician. Never give anything by mouth to a unconscious person. Do not induce vomiting. |
| 4.2. Most important symptoms and effe | cts, both acute and delayed |
| Symptoms/injuries after inhalation | : Corrosive to respiratory system. Causes burns. |
| Symptoms/injuries after skin contact | : Causes severe burns. |
| Symptoms/injuries after eye contact | : Causes serious eye damage. Corneal opacity. Iris lesions. |
| Symptoms/injuries after ingestion | : Severe irritation or burns to the mouth, throat, oesophagus, and stomach. |
| 4.3. Indication of any immediate medica | al attention and special treatment needed |
| Keep under medical supervision for at least 48 l where possible). | nours. In case of accident or if you feel unwell, seek medical advice immediately (show the label |

: Water fog. carbon dioxide (CO2), dry chemical powder, foam.

Extinguishing media

itable extinguishing media

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| Coluling to Regulation (EO) 2015/650 | |
|---|---|
| Unsuitable extinguishing media | : Do not use water jet. |
| 5.2. Special hazards arising from the subs | stance or mixture |
| Fire hazard | : On burning: release of (highly) toxic gases/vapours. |
| Explosion hazard | : None known. |
| Hazardous decomposition products in case of fire | : Hazardous combustion products. On combustion forms: carbon oxides (CO and CO2). |
| 5.3. Advice for firefighters | |
| Precautionary measures fire | : Evacuate the personnel away from the fumes. |
| Firefighting instructions | : Cool down the containers exposed to heat with a water spray. Move undamaged containers from immediate hazard area if it can be done safely. |
| Protective equipment for firefighters | : Extra personal protection: complete protective clothing including self-contained breathing apparatus. |
| Other information | : Do not allow run-off from fire fighting to enter drains or water courses. |
| SECTION 6: Accidental release meas | ures |
| 6.1. Personal precautions, protective equi | ipment and emergency procedures |
| 6.1.1. For non-emergency personnel | |
| Protective equipment | : Wear personal protection equipment. Do not attempt to take action without suitable protective equipment. |
| Emergency procedures | Immediately contact emergency personnel. Eliminate all ignition sources if safe to do so. Spilled material may present a slipping hazard. |
| 6.1.2. For emergency responders | |
| Protective equipment | : Wear suitable protective clothing, gloves and eye/face protection. Do not attempt to take action |
| | without suitable protective equipment. In presence of product's residue, total impervious protective suits, gloves, and boots must be worn. |
| Emergency procedures | : Evacuate unnecessary personnel. Eliminate all ignition sources if safe to do so. Spilled materia |
| | may present a slipping hazard. Avoid inhalation of vapours. Ventilate affected area. Consult ar expert. |
| 6.2. Environmental precautions | |
| Avoid release to the environment. Avoid sub-soil p drain. | penetration. Relevant water authorities should be notified of any large spillage to water course or |
| 6.3. Methods and material for containment | t and cleaning up |
| For containment | Stop leak if safe to do so. Recover small spills with a suitable absorbent, like diatomaceous earth. Recover large spills by pumping (use an explosion proof or hand pump). |
| Methods for cleaning up | : Ventilate affected area. Wear personal protection equipment. Collect in closed containers for disposal. Wash with plenty of soap and water. Consult the appropriate authorities about waste disposal. Wash contaminated area with large amounts of water. |
| Other information | : Do not allow uncontrolled discharge of product into the environment. |
| 6.4. Reference to other sections | |
| | osal considerations. For further information refer to section 8: "Exposure controls/personal |
| SECTION 7: Handling and storage | |
| 7.1. Precautions for safe handling | |
| Precautions for safe handling | : Avoid contact with skin and eyes. Avoid breathing mist or vapor . Keep away from sources of ignition - No smoking. Take any precaution to avoid mixing with Incompatible materials. Open and handle container with care. Ensure operatives are trained to minimise exposures. Avoid formation of vapours. |
| Hygiene measures | Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. |
| 7.2. Conditions for safe storage, including | g any incompatibilities |
| | : Provide adequate ventilation. |
| Technical measures | |
| Technical measures Storage conditions | : Store tightly closed in a dry, cool and well-ventilated place. Keep out of direct sunlight. |
| | |
| Storage conditions | : Store tightly closed in a dry, cool and well-ventilated place. Keep out of direct sunlight. |
| Storage conditions Incompatible materials | Store tightly closed in a dry, cool and well-ventilated place. Keep out of direct sunlight. Acids. alkali. oxidizing agents. Flammable materials. Peroxides. |
| Storage conditions Incompatible materials Storage temperature | Store tightly closed in a dry, cool and well-ventilated place. Keep out of direct sunlight. Acids. alkali. oxidizing agents. Flammable materials. Peroxides. 5 - 40 °C |
| Storage conditions Incompatible materials Storage temperature Heat and ignition sources | Store tightly closed in a dry, cool and well-ventilated place. Keep out of direct sunlight. Acids. alkali. oxidizing agents. Flammable materials. Peroxides. 5 - 40 °C Keep away from open flames, hot surfaces and sources of ignition. |
| Storage conditions Incompatible materials Storage temperature Heat and ignition sources Prohibitions on mixed storage | Store tightly closed in a dry, cool and well-ventilated place. Keep out of direct sunlight. Acids. alkali. oxidizing agents. Flammable materials. Peroxides. 5 - 40 °C Keep away from open flames, hot surfaces and sources of ignition. Keep away from food, drink and animal feeding stuffs. Use explosion-proof lighting equipment. |
| Storage conditions Incompatible materials Storage temperature Heat and ignition sources Prohibitions on mixed storage Storage area | Store tightly closed in a dry, cool and well-ventilated place. Keep out of direct sunlight. Acids. alkali. oxidizing agents. Flammable materials. Peroxides. 5 - 40 °C Keep away from open flames, hot surfaces and sources of ignition. Keep away from food, drink and animal feeding stuffs. Use explosion-proof lighting equipment. stainless steel. Polyvinylchloride (PVC). Polyethylene. Teflon. Neoprene. Unsuitable material: |

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7.3. Specific end use(s)

No additional information available

| | nomethyl ether- (34590-94-8) | |
|------------------------|---|--|
| EU | IOELV TWA (mg/m ³) | 308 mg/m ³ |
| EU | IOELV TWA (ng/m²) | 50 ppm |
| Austria | MAK (mg/m ³) | 307 mg/m ³ (mixed isomers) |
| Austria | MAK (ngm) | 50 ppm (mixed isomers) |
| Austria | MAK Short time value (mg/m³) | 614 mg/m ³ (isomers mixtures) |
| Austria | MAK Short time value (mg/m) | 100 ppm (isomers mixtures) |
| Belgium | Limit value (mg/m³) | 308 mg/m ³ |
| Belgium | Limit value (mg/m) | 50 ppm |
| Bulgaria | OEL TWA (mg/m ³) | 308 mg/m ³ |
| Bulgaria | OEL TWA (ppm) | 50 ppm |
| Croatia | GVI (granična vrijednost izloženosti) (mg/m ³) | 308 mg/m ³ |
| Croatia | GVI (granična vrijednost izloženosti) (ppm) | 50 ppm |
| Cyprus | OEL TWA (mg/m ³) | 308 mg/m ³ |
| Cyprus | OEL TWA (ppm) | 50 ppm |
| Czech Republic | Expoziční limity (PEL) (mg/m ³) | 270 mg/m ³ |
| Denmark | Grænseværdie (langvarig) (mg/m³) | 309 mg/m ³ |
| | | |
| Denmark | Grænseværdie (langvarig) (ppm) | 50 ppm |
| Estonia | OEL TWA (mg/m ³) | 308 mg/m ³ |
| Estonia | OEL TWA (ppm) | 50 ppm |
| Finland | HTP-arvo (8h) (mg/m ³) | 310 mg/m ³ |
| Finland | HTP-arvo (8h) (ppm) | 50 ppm |
| | | |
| France | VME (mg/m³) | 308 mg/m ³ (restrictive limit) |
| France | VME (ppm) | 50 ppm (restrictive limit) |
| Germany | TRGS 900 Occupational exposure limit value (mg/m ³) | 310 mg/m³ (isomer mixture) |
| Germany | TRGS 900 Occupational exposure limit value (ppm) | 50 ppm (isomer mixture) |
| Gibraltar Gibraltar | OEL TWA (mg/m ³) | 308 mg/m ³ |
| Gibraitai | OEL TWA (ppm) OEL TWA (mg/m ³) | 50 ppm 600 mg/m ³ |
| Greece | OEL TWA (mg/m²) OEL TWA (ppm) | 100 ppm |
| Greece | OEL STEL (mg/m ³) | 900 mg/m ³ |
| Greece | OEL STEL (mg/m) | 150 ppm |
| Hungary | AK-érték | 308 mg/m ³ |
| Hungary | CK-érték | 308 mg/m ³ (Substances with European indicative limi (96/94/EC, 2000/39/EC, 2006/15/EC, 2009/161/EU), which currently has no peak limit concentration. In |
| | | these cases, Annex 3.1. should be used exercised) |
| Ireland | OEL (8 hours ref) (mg/m ³) | 308 mg/m ³ |
| Ireland | OEL (8 hours ref) (ppm) | 50 ppm |
| Ireland | OEL (15 min ref) (mg/m3) | 924 mg/m³ (calculated) |
| Ireland | OEL (15 min ref) (ppm) | 150 ppm (calculated) |
| Italy | OEL TWA (mg/m³) | 308 mg/m ³ |
| , | | ÷ |
| Italy | OEL TWA (ppm) | 50 ppm |
| Latvia | OEL TWA (mg/m ³) | 308 mg/m ³ |
| Latvia | OEL TWA (ppm) | 50 ppm |
| Lithuania | IPRV (mg/m ³) | 300 mg/m ³ |
| Lithuania | IPRV (ppm) | 50 ppm |
| Lithuania | | |
| | TPRV (mg/m ³) | 450 mg/m ³ |
| Lithuania | TPRV (ppm) | 75 ppm |
| Malta | OEL TWA (mg/m ³) | 308 mg/m ³ |

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| | onomethyl ether- (34590-94-8) | |
|-----------------|---|---|
| Malta | OEL TWA (ppm) | 50 ppm |
| Netherlands | Grenswaarde TGG 8H (mg/m ³) | 300 mg/m ³ |
| Poland | NDS (mg/m ³) | 240 mg/m ³ (mixture of isomers) |
| Poland | NDSCh (mg/m ³) | 480 mg/m ³ (mixture of isomers: Propanol, 1 (or 2)-(2- methoxymethylethoxy)-, Propanol, 1-(1- methoxymethylethoxy) |
| Portugal | OEL TWA (mg/m ³) | 308 mg/m ³ (indicative limit value) |
| Portugal | OEL TWA (ppm) | 50 ppm (indicative limit value) |
| Portugal | OEL STEL (ppm) | 150 ppm |
| Romania | OEL TWA (mg/m ³) | 308 mg/m ³ |
| Romania | OEL TWA (ppm) | 50 ppm |
| Slovakia | NPHV (priemerná) (mg/m ³) | 308 mg/m ³ |
| Slovakia | NPHV (priemerná) (ppm) | 50 ppm |
| Slovakia | NPHV (Hraničná) (mg/m³) | 568 mg/m ³ |
| Slovenia | OEL TWA (mg/m ³) | 308 mg/m ³ |
| Slovenia | OEL TWA (ppm) | 50 ppm |
| Spain | VLA-ED (mg/m ³) | 308 mg/m ³ (indicative limit value) |
| Spain | VLA-ED (ppm) | 50 ppm (indicative limit value) |
| Sweden | nivågränsvärde (NVG) (mg/m³) | 300 mg/m ³ |
| Sweden | nivågränsvärde (NVG) (ppm) | 50 ppm |
| Sweden | kortidsvärde (KTV) (mg/m³) | 450 mg/m ³ |
| Sweden | kortidsvärde (KTV) (ppm) | 75 ppm |
| United Kingdom | WEL TWA (mg/m ³) | 308 mg/m ³ |
| United Kingdom | WEL TWA (ppm) | 50 ppm |
| United Kingdom | WEL STEL (mg/m ³) | 924 mg/m ³ (calculated) |
| United Kingdom | WEL STEL (ppm) | 150 ppm (calculated) |
| Norway | Grenseverdier (AN) (mg/m ³) | 300 mg/m ³ |
| Norway | Grenseverdier (AN) (ppm) | 50 ppm |
| Norway | Grenseverdier (Korttidsverdi) (mg/m3) | 300 mg/m ³ |
| Norway | Grenseverdier (Korttidsverdi) (ppm) | 50 ppm |
| Switzerland | VME (mg/m ³) | 300 mg/m ³ |
| Switzerland | VME (ppm) | 50 ppm |
| Switzerland | VLE (mg/m ³) | 300 mg/m ³ |
| Switzerland | VLE (ppm) | 50 ppm |
| Australia | TWA (mg/m ³) | 308 mg/m ³ |
| Australia | TWA (ppm) | 50 ppm |
| Canada (Quebec) | VECD (mg/m ³) | 909 mg/m ³ |
| Canada (Quebec) | VECD (ppm) | 150 ppm |
| Canada (Quebec) | VEMP (mg/m ³) | 606 mg/m ³ |
| Canada (Quebec) | VEMP (ppm) | 100 ppm |
| USA - ACGIH | ACGIH TWA (ppm) | 100 ppm |
| USA - ACGIH | ACGIH STEL (ppm) | 150 ppm |
| USA - IDLH | US IDLH (ppm) | 600 ppm |
| USA - NIOSH | NIOSH REL (TWA) (mg/m ³) | 600 mg/m ³ |
| USA - NIOSH | NIOSH REL (TWA) (ppm) | 100 ppm |
| USA - NIOSH | NIOSH REL (STEL) (mg/m ³) | 900 mg/m ³ |
| USA - NIOSH | NIOSH REL (STEL) (ppm) | 150 ppm |
| USA - OSHA | OSHA PEL (TWA) (mg/m ³) | 600 mg/m ³ |
| USA - OSHA | OSHA PEL (TWA) (ppm) | 100 ppm |

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8.2. Exposure controls

Appropriate engineering controls:

Provide adequate ventilation. A washing facility/water for eye and skin cleaning purposes should be present.

Personal protective equipment:

Safety glasses. Gloves. Protective clothing. An approved organic vapour respirator/supplied air or self-contained breathing apparatus must be used when vapour concentration exceeds applicable exposure limits.

Materials for protective clothing:

Rubbers. PVC (Polyvinyl chloride). Natural fibres (e.g. cotton). EN ISO 20344

Hand protection:

Chemical resistant gloves (according to European standard NF EN 374 or equivalent). Break through time: ≥ 480 min. Thickness of glove material: 0.4-0.5 mm. Chemical resistant gloves (nitrile-rubber, PVC, neoprene)

Eye protection:

Wear eye glasses with side protection according to EN 166. Do not wear contact lenses

Skin and body protection:

Chemical resistant protective apron/clothing (tested to EN 14605 or equivalent). Wear work clothes with long sleeves. EN ISO 20344

Respiratory protection:

An approved organic vapour respirator/supplied air or self-contained breathing apparatus must be used when vapour concentration exceeds applicable exposure limits. Wear a respirator conforming to EN140 with Type A/P2 filter or better. EN 14387. Combination filtering device (DIN EN 141)



| SECTION 9: Physical and chemical p | roperties |
|--|--|
| 9.1. Information on basic physical and ch | nemical properties |
| Physical state | : Liquid |
| Colour | : straw yellow. |
| Odour | : characteristic. |
| Odour threshold | : No data available |
| pH | : 14 at 20°C |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : >100 °C |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : Not flammable |
| Vapour pressure | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : No data available |
| Density | : 1.1 - 1.25 kg/l |
| Solubility | : soluble in water. |
| Log Pow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : Not expected to be explosive as none of the components is classified as explosive. |
| Oxidising properties | : Not oxidising. |
| Explosive limits | : No data available |
| 9.2. Other information | |
| VOC content | : 4.6 % |
| | |

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| SECTION 10: Stability and reactivity | |
|--------------------------------------|--|
|--------------------------------------|--|

10.1. Reactivity

Reacts exothermically with (some) acids. Reacts with (strong) oxidizers.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal conditions.

10.4. Conditions to avoid

Keep away from acids. Oxidizing agent. Peroxides.

10.5. Incompatible materials

Acids. Oxidizing agent. Peroxides. Flammable materials.

10.6. Hazardous decomposition products

On combustion or on thermal decomposition (pyrolysis) releases : Nitrogen oxides (NOx). Carbon dioxide (CO2). Phosphorus oxides. Sulfur oxides. Pyrolysis products, toxic.

SECTION 11: Toxicological information

| 1.1. Information on toxicological effects Acute toxicity : Not classified potassium hydroxide, caustic potash (1310-58-3) | element in realectogical informatic | | |
|---|---|--|--|
| potassium hydroxide, caustic potash (1310-58-3) LD50 oral rat 333 gr/kg Alcohols, C12-14, ethoxylated propoxylated (68439-51-0) LD50 oral rat > 2000 mg/kg D-Glucopyranose, oligomeric, decyl octyl glycosides (68515-73-1) LD50 oral rat > 2000 mg/kg (OECD 423 method) LD50 dermal rat > 2000 mg/kg (OECD 402 method) Dipropylene glycol monomethyl ether- (34590-94-8) | 1.1. Information on toxicological effects | | |
| LD50 oral rat 333 mg/kg Alcohols, C12-14, ethoxylated propoxylated (68439-51-0) LD50 oral rat > 2000 mg/kg D-Glucopyranose, oligomeric, decyl octyl glycosides (68515-73-1) LD50 oral rat > 2000 mg/kg (OECD 423 method) LD50 dermal rat > 2000 mg/kg (OECD 402 method) Dipropylene glycol monomethyl ether- (34590-94-8) ID50 oral rat LD50 dermal rat > 13000 mg/kg LD50 dermal rat > 13000 mg/kg Skin corrosion/irritation : Causes severe skin burns and eye damage. pH: 14 at 20°C Serious eye damage/irritation Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified | Acute toxicity | : Not classified | |
| Alcohols, C12-14, ethoxylated propoxylated (68439-51-0) LD50 oral rat > 2000 mg/kg D-Glucopyranose, oligomeric, decyl octyl glycosides (68515-73-1) LD50 oral rat > 2000 mg/kg (OECD 423 method) LD50 dermal rat > 2000 mg/kg (OECD 402 method) Dipropylene glycol monomethyl ether- (34590-94.8) | potassium hydroxide, caustic potash (1310- | 58-3) | |
| LD50 oral rat > 2000 mg/kg D-Glucopyranose, oligomeric, decyl octyl glycosides (68515-73-1) 1 LD50 oral rat > 2000 mg/kg (OECD 423 method) LD50 dermal rat > 2000 mg/kg (OECD 402 method) Dipropylene glycol monomethyl ether- (34590-94-8) 1 LD50 oral rat 5400 mg/kg LD50 dermal rat > 13000 mg/kg Skin corrosion/irritation : Causes severe skin burns and eye damage. pH: 14 at 20°C 94.14 at 20°C Serious eye damage/irritation : Not classified Germ cell mutagenicity : Not classified Germ cell mutagenicity : Not classified StoT-single exposure : Not classified StoT-repeated exposure : Not classified | LD50 oral rat | 333 mg/kg | |
| D-Glucopyranose, oligomeric, decyl octyl glycosides (68515-73-1) LD50 oral rat > 2000 mg/kg (OECD 423 method) LD50 dermal rat > 2000 mg/kg (OECD 402 method) Dipropylene glycol monomethyl ether- (34590-94-8) | Alcohols, C12-14, ethoxylated propoxylated | (68439-51-0) | |
| LD50 oral rat > 2000 mg/kg (OECD 423 method) LD50 dermal rat > 2000 mg/kg (OECD 402 method) Dipropylene glycol monomethyl ether- (34590-94-8) | LD50 oral rat | > 2000 mg/kg | |
| LD50 dermal rat > 2000 mg/kg (OECD 402 method) Dipropylene glycol monomethyl ether- (34590-94-8) LD50 dermal rat 5400 mg/kg LD50 dermal rat > 13000 mg/kg Skin corrosion/irritation : Causes severe skin burns and eye damage. pH: 14 at 20°C Serious eye damage/irritation : Causes serious eye damage. pH: 14 at 20°C Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Stort classified Stort classified Stort classified Stort classified Stort classified Stort classified Stort classified Stort classified Stort substance : Not classified S | D-Glucopyranose, oligomeric, decyl octyl gl | ycosides (68515-73-1) | |
| Dipropylene glycol monomethyl ether- (34590-94-8) LD50 oral rat 5400 mg/kg LD50 dermal rat > 13000 mg/kg Skin corrosion/irritation : Causes severe skin burns and eye damage. pH: 14 at 20°C Serious eye damage/irritation : Causes serious eye damage. pH: 14 at 20°C Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified | LD50 oral rat | > 2000 mg/kg (OECD 423 method) | |
| LD50 oral rat 5400 mg/kg LD50 dermal rat > 13000 mg/kg Skin corrosion/irritation : Causes severe skin burns and eye damage. pH: 14 at 20°C Serious eye damage/irritation : Causes serious eye damage. pH: 14 at 20°C Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified | LD50 dermal rat | > 2000 mg/kg (OECD 402 method) | |
| LD50 dermal rat > 13000 mg/kg Skin corrosion/irritation : Causes severe skin burns and eye damage. pH: 14 at 20°C Serious eye damage/irritation : Causes serious eye damage. pH: 14 at 20°C Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified | Dipropylene glycol monomethyl ether- (3459 | 0-94-8) | |
| Skin corrosion/irritation : Causes severe skin burns and eye damage. pH: 14 at 20°C Serious eye damage/irritation : Causes serious eye damage. pH: 14 at 20°C Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified | LD50 oral rat | 5400 mg/kg | |
| Berious eye damage/irritation : Causes serious eye damage. pH: 14 at 20°C Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified | LD50 dermal rat | > 13000 mg/kg | |
| Serious eye damage/irritation : Causes serious eye damage. pH: 14 at 20°C Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified | Skin corrosion/irritation | : Causes severe skin burns and eye damage. | |
| pH: 14 at 20°C Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified | | pH: 14 at 20°C | |
| Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified | Serious eye damage/irritation | : Causes serious eye damage. | |
| Gern cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified | | pH: 14 at 20°C | |
| Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified | Respiratory or skin sensitisation | : Not classified | |
| Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified | Germ cell mutagenicity | : Not classified | |
| STOT-single exposure : Not classified STOT-repeated exposure : Not classified | Carcinogenicity | : Not classified | |
| STOT-repeated exposure : Not classified | Reproductive toxicity | : Not classified | |
| | STOT-single exposure | : Not classified | |
| Aspiration hazard : Not classified | STOT-repeated exposure | : Not classified | |
| | Aspiration hazard | : Not classified | |

SECTION 12: Ecological information

| | _ | | | |
|------|---|----|-----|----|
| 12.1 | | ox | ICI | TA |
| | | | | |

| potassium hydroxide, caustic potash (1310-58-3) | | |
|--|---------------------------------------|------|
| LC50 fish 1 | 80 mg/l Gambusia affinis | |
| Alcohols, C12-14, ethoxylated propoxyla | ted (68439-51-0) | |
| LC50 fish 1 | 1 - 10 mg/l (OECD 203 method) | |
| EC50 Daphnia 1 | 1 - 10 (OECD 202 method) | |
| EC50 other aquatic organisms 1 | > 10000 mg/l Bacteria toxicity | |
| EC50 72h algae (1) | 0.1 - 1 mg/l (OECD 201 method) | |
| EC50 72h algae (2) | 1 - 10 mg/l (OECD 201 method) | |
| D-Glucopyranose, oligomeric, decyl octyl glycosides (68515-73-1) | | |
| LC50 fish 1 | > 100 mg/l Brachydario rerio | |
| EC50 Daphnia 1 | 10 - 100 mg/l | |
| EC50 72h algae (1) | 10 - 100 mg/l Scenedesmus subspicatus | |
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| D-Glucopyranose, oligomeric, decyl octyl glycosides (68515-73-1) | | |
|--|--|--|
| NOEC chronic fish | 1.8 mg/l Brachydanio rerio | |
| NOEC chronic crustacea | 1 mg/l Daphinia Magna | |
| Dipropylene glycol monomethyl ether- (34590-94-8) | | |
| LC50 fish 1 | > 10000 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) | |
| EC50 Daphnia 1 | 1919 mg/l (Exposure time: 48 h - Species: Daphnia magna) | |
| EC50 other aquatic organisms 1 | 4168 mg/l Active sludge | |
| EC50 72h algae (1) | > 969 mg/l Pseudokirchneriella subcapitata | |

12.2. Persistence and degradability

| potassium hydroxide, caustic potash (1310-58-3) | | | |
|---|--|--|--|
| Persistence and degradability | The methods for determining the biological degradability are not applicable to inorganic substances. | | |
| Dipropylene glycol monomethyl ether- (34590-94-8) | | | |
| Persistence and degradability | Readily biodegradable. | | |
| Biodegradation | 96 % 28 day | | |
| 2.3. Bioaccumulative potential | | | |
| Det&Rinse | | | |
| Bioaccumulative potential | Low bioaccumulation potential. | | |
| potassium hydroxide, caustic potash (131 | 0-58-3) | | |
| Bioaccumulative potential | No bioaccumulation. | | |
| Alcohols, C12-14, ethoxylated propoxylate | d (68439-51-0) | | |
| Log Pow | < 1.77 | | |
| Bioaccumulative potential | No bioaccumulation. | | |
| Dipropylene glycol monomethyl ether- (34590-94-8) | | | |
| Log Pow | 0.004 | | |
| Bioaccumulative potential | No bioaccumulation. | | |
| 2.4. Mobility in soil | | | |
| Det&Rinse | | | |
| Ecology - soil | Expected to be highly mobile in soil. | | |
| 2.5. Results of PBT and vPvB assessme | nt | | |
| Det&Rinse | | | |
| Results of PBT assessment | The components in this formulation do not meet the criteria for classification as PBT or vPvB. | | |
| 2.6. Other adverse effects | | | |
| lo additional information available | | | |
| ECTION 13: Disposal consideration | 15 | | |
| 3.1. Waste treatment methods | | | |
| Waste treatment methods | : Reuse or recycle following decontamination. External recovery and recycling of waste should | | |

| waste treatment methods | Reuse or recycle rollowing decontamination. External recovery and recycling or waste should comply with applicable local and/or national regulations. Recycling is preferred to disposal or incineration. |
|--------------------------------|---|
| Waste disposal recommendations | : Dispose of this material and its container at hazardous or special waste collection point. |
| HP Code | : HP4 - "Irritant — skin irritation and eye damage." waste which on application can cause skin irritation or damage to the eye HP8 - "Corrosive:" waste which on application can cause skin corrosion |

SECTION 14: Transport information

| In accordance with ADR / RID / IMDG / IATA / ADN | | | | | |
|---|--|---|--|--|--|
| ADR | IMDG | IATA | ADN | RID | |
| 14.1. UN number | | | | | |
| 1814 | 1814 | 1814 | 1814 | 1814 | |
| 14.2. UN proper shipp | ing name | | | | |
| POTASSIUM HYDROXIDE SOLUTION | POTASSIUM HYDROXIDE SOLUTION | Potassium hydroxide solution | POTASSIUM HYDROXIDE SOLUTION | POTASSIUM HYDROXIDE SOLUTION | |
| Transport document desc | ription | | | | |
| UN 1814 POTASSIUM HYDROXIDE SOLUTION, 8, III, (E) | UN 1814 POTASSIUM HYDROXIDE SOLUTION, 8, III | UN 1814 Potassium hydroxide solution, 8, III | UN 1814 POTASSIUM HYDROXIDE SOLUTION, 8, III | UN 1814 POTASSIUM HYDROXIDE SOLUTION, 8, III | |
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| ADR | IMDG | ΙΑΤΑ | ADN | RID |
|--|--|------------------------------------|---------------------------------------|---------------------------------------|
| | | | | |
| 14.3. Transport | t hazard class(es) | | | |
| 8 | 8 | 8 | 8 | 8 |
| \Rightarrow | \Rightarrow | \Rightarrow | \Rightarrow | 8 |
| 14.4. Packing g | Iroup | | | |
| Ш | III | Ш | III | 111 |
| 14.5. Environm | ental 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 | |
|---------------------------------|--------|
| Limited quantities (ADR) | : 5L |
| Transport category (ADR) | : 3 |
| Tunnel restriction code (ADR) | : E |
| - Transport by sea | |
| Limited quantities (IMDG) | : 5L |
| EmS-No. (Fire) | : F-A |
| EmS-No. (Spillage) | : S-B |
| Stowage category (IMDG) | : A |
| - Air transport | |
| PCA Limited quantities (IATA) | : Y841 |
| PCA packing instructions (IATA) | : 852 |
| PCA max net quantity (IATA) | : 5L |
| CAO packing instructions (IATA) | : 856 |

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances

| VOC content | : 4.6 % |
|------------------------|---|
| Regulation EC 648/2004 | : Contains: 5% - 15 % phosphates Contains: < 5% anionic surfactants, amphoteric surfactants, non-ionic surfactants |
| Seveso Information | : None |

Seveso Information

15.1.2. National regulations

Germany

| VwVwS Annex reference | Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, 4) | Annex |
|---|---|-------|
| 12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV | : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance) | |
| Netherlands | | |
| SZW-lijst van kankerverwekkende stoffen | : None of the components are listed | |
| SZW-lijst van mutagene stoffen | : None of the components are listed | |
| | | |

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| NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding | : None of the components are listed |
|--|---|
| NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid | : None of the components are listed |
| NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling | : None of the components are listed |
| Denmark | |
| Recommendations Danish Regulation | : Young people below the age of 18 years are not allowed to use the product |

15.2. Chemical safety assessment

| For the following substances of this mixture a chemical safe | atv assessment has been carried out |
|--|-------------------------------------|
| TO THE IONOWING SUBSTAILES OF THIS THISTUP & CHEMICAL SAID | ely assessment has been camed out |

| For the following substances of this mixture a chemical safe | |
|--|--|
| | |
| | |

potassium hydroxide, caustic potash D-Glucopyranose, oligomeric, decyl octyl glycosides

SECTION 16: Other information

| SDS | Safety Data Sheet |
|-------|---|
| | CAS - Chemical Abstracts Service |
| | GHS - Globally Harmonised System |
| | CSR - Chemical Safety Report |
| 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 |
| DNEL | Derived-No Effect Level |
| EC50 | Median effective concentration |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| 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 |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| | PVC (Polyvinyl chloride). |
| PNEC | Predicted No-Effect Concentration |
| PBT | Persistent Bioaccumulative Toxic |
| vPvB | Very Persistent and Very Bioaccumulative |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |

the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. It is the user's responsibility to take mentioned precaution measures and ensure that this information is complete and sufficient for the use of this product.

Full text of H- and EUH-statements:

| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 | |
|---------------------|---|-------|
| Aquatic Acute 1 | Hazardous to the aquatic environment — Acute Hazard, Category 1 | |
| Aquatic Chronic 3 | Hazardous to the aquatic environment — Chronic Hazard, Category 3 | |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 | |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 | |
| Met. Corr. 1 | Corrosive to metals, Category 1 | |
| Skin Corr. 1A | Skin corrosion/irritation, Category 1A | |
| H290 | May be corrosive to metals | |
| H302 | Harmful if swallowed | |
| H314 | Causes severe skin burns and eye damage | |
| H318 | Causes serious eye damage | |
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| H319 | Causes seriou | Causes serious eye irritation | | | | |
|---|-----------------|---|--|--|--|--|
| H400 | Very toxic to a | Very toxic to aquatic life | | | | |
| H412 | Harmful to aqu | Harmful to aquatic life with long lasting effects | | | | |
| Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]: | | | | | | |
| Met. Corr. 1 | H290 | Calculation method | | | | |
| Skin Corr. 1A | H314 | On basis of test data | | | | |
| Eye Dam. 1 | H318 | Calculation method | | | | |

SDS EU (REACH Annex II)

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

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EXPOSURE SCENARIO POTASSIUM HYDROXIDE

| | F. | | |
|--|---|--|--|
| Sector of use (SU). | SU 22 | | |
| Product category (PC). | PC35 | | |
| Process category (PROC). | PROC2 | | |
| Environment release category (ERC). | ERC8a | | |
| Contributing scenario controlling environmental exposure | | | |
| Product characteristics. | Covers concentrations up to 100% | | |
| Frequency and duration of use. | Continued exposure | | |
| Technical and specific conditions on-site to reduce or limit the drainage, emissions to the air and discharge to the earth. | A regular check of the pH is required in case of drainage into open waters. In general the drainage should take place in such a way as to minimize ar modifications to the pH of the surface water. In general the majority of aquat organisms are able to tolerate pH values between 6-9, as reported in the descriptic of the OECD standard tests on aquatic organisms. The measures of ris management for the environment are aimed at avoiding drainage into publ drainage systems or surface water, in the event in which such discharges would b able to cause significant changes to the pH. | | |
| Conditions and measures regarding the external treatment of waste for disposal. | The waste must be reused or discharged into industrial water drains and neutralized, if necessary. | | |
| Contributing scenario controlling worker exposure | | | |
| Product characteristics | Covers concentrations up to 100% | | |
| Quantity used | 0,6 kg | | |
| Duration of exposure (per day) | >240 min | | |
| Technical conditions and measures at process level (source) to prevent release | Substitute manual procedures with automatic procedures where possible. Us closed systems or covered open systems. Use suction pumps. Transfer via close circuit lines. Ensure that the transfer of materials is subject to containment measure or under suction ventilation. Adopt good standards of general ventilation. Natur ventilation comes from doors, windows. Controlled ventilation means air that supplied from or extracted from an electrically powered ventilator. Avoid spra Reduction of volumes of liquid in wells to prevent/collect any possible spills. | | |
| Organizational measures to prevent /limit releases, dispersion and exposure | Workers present in areas of risk or involved in working processes that are at rismust be training to: a) avoid working without protection of the respiratory tract, understand the corrosive properties and, particularly the effects of inhalation, follow the safety instructions given by the employer. The employer must make sure that the required PPE are available and are use according to their relative instructions. Substitute, where possible, manu processes with automatic processes and/or closed circuits. This would prevent th formation of fogs and aerosols that are initiants and potential sprays. Check th potential exposure using measures such as closed or autonomous systems, we equipped and maintained equipment and a plentiful general ventilation, discharg the systems and empty the pipelines before opening the installation. As far a possible, empty and rinse the exposure, ensure that the workers involved a informed on the nature of the exposure, and on the fundamental methods minimize the exposure. Ensure that the required personal protective equipment available. Collect the spilled material and dispose of the waste according to the precautions forescene by the law. Monitor the effectiveness of the control measure Evaluate the necessity of monitoring health. Identify and implement collecting measures. Ensure that the control measures are regularly checked and respecte On-site checks to make sure that the risk managements measures are used in the correct way and that the operative conditions are followed. | | |
| Conditions and measures related to personal protection, hygiene and health evaluation | In the event of the formation of powders or aerosols use PPE to protect the respiratory tract with the appropriate filter (P2). Wear suitable EN374 approve gloves. Wear safety glasses with side protection according to EN 166. Wear suitab protective clothing, aprons, shields and overalls. In the event of risk of spray: we rubber boots. | | |
| Exposure estimation and reference to its source | | | |
| Environment | The substance dissociates on contact with water, the only effect is an increase pH, therefore after having passed through the water treatment plant the exposu is to be considered negligible and without any risk. | | |
| Workers (ECETOC TRA model) | | | |

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| Contributing scenario | Specific conditions | Method of exposure | Level of exposure | PNEC | RCR | | | |
|--|---------------------|--------------------|------------------------|---------------------|------|--|--|--|
| PROC2 | Liquid | Inhalation | 0,23 mg/m ³ | 1 mg/m ³ | 0,23 | | | |
| Guidance to DU to evaluate whether he works inside the boundaries set by the ES | | | | | | | | |
| If no measured data is available, the downstream user can use scaling instrument such as ECETOC TRA. Important note: showing a safe use, with respect to the estimated exposure with DNEL in the long term, the acute DNEL is also covered (according to guide R.14, it is possible to deduce the acute levels of exposure by multiplying the estimate long term exposure by a factor of 2). The exposure by inhalation is estimated with ECETOC TRA. For the scaling see: http://ecetoc.org/tra . | | | | | | | | |

Only correctly trained personnel should use scaling methods to see if the operative conditions and risk management are within the limits indicated in the exposure scenario.

Additional advice for good practice

It is assumed that adequate standards for hygiene in the workplace are adopted.