



SAFETY DATA SHEET

5L SUPER PROFESSIONAL NON BIOLOGICAL LAUNDRY LIQUID L3

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.

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

1.1. Product identifier

| | |
|----------------|--|
| Product name | 5L SUPER PROFESSIONAL NON BIOLOGICAL LAUNDRY LIQUID L3 |
| Product number | 800-242-0005 L3 |
| Container size | 5 litres |
| UFI | UFI: U8W4-7K6M-8N7V-QXXY |

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

| | |
|----------------------|--|
| Identified uses | Detergent. |
| Uses advised against | Not for Oral Consumption. Do not use for personal cleansing. Use only for intended applications. |

1.3. Details of the supplier of the safety data sheet

| | |
|----------|--|
| Supplier | Mirius™ A Coventry Group Company Woodhams Road Siskin Drive Coventry CV3 4FX Coventry Chemicals (Ireland) Limited 4th Floor 8-34 Percy Place Dublin 4 Ireland Tel: +44 (0) 02476 639 739 Fax: +44 (0) 02476 639 717 Email: sales@mirius.com |
|----------|--|

| | |
|----------------|---|
| Contact person | For content of safety data sheet:, sds@mirius.com |
|----------------|---|

1.4. Emergency telephone number

| | |
|-------------------------------------|---|
| Emergency telephone | +44 (0) 1865407333 (Strictly for emergencies only: incidents involving damage to human health and/or the environment) |
| National emergency telephone number | UK: In case of a medical emergency following exposure to a chemical call NHS Direct in England or Wales 0845 46 47 or NHS 24 in Scotland 08454 24 24 24 Ireland: For information or to report a poisoning incident contact The National Poisons Information Centre (01 8092166) |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (SI 2019 No. 720)

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| | |
|------------------------------|-------------------|
| Physical hazards | Not Classified |
| Health hazards | Eye Dam. 1 - H318 |
| Environmental hazards | Not Classified |

2.2. Label elements

Hazard pictograms



| | |
|---|--|
| Signal word | Danger |
| Hazard statements | H318 Causes serious eye damage. |
| Precautionary statements | P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P264 Wash contaminated skin thoroughly after handling. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P310 Immediately call a POISON CENTER/ doctor. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P501 Dispose of contents/ container in accordance with local regulations. |
| Contains | C12-14-ALKYL ETHER SULFATES, ALCOHOLS, C12-14, ETHOXYLATED |
| Detergent labelling | 5 - < 15% anionic surfactants, < 5% non-ionic surfactants, < 5% optical brighteners, < 5% perfumes, < 5% polycarboxylates, Contains 2-Bromo-2-nitropropane-1, 3-diol |
| Supplementary precautionary statements | P102 Keep out of reach of children. P363 Wash contaminated clothing before reuse. |

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB. The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) >0.1% published by the European Chemicals Agency (ECHA) under article 57 of the REACH regulation (as amended). This product is not classified as, nor contains substances classed as having endocrine disrupting characteristics at levels >0.1% by weight (according to Regulation (EU) 2018/605).

SECTION 3: Composition/information on ingredients

3.2. Mixtures

| | |
|------------------------------------|----------------------|
| C12-14 ALKYL ETHER SULFATES | 5-10% |
| CAS number: 68891-38-3 | EC number: 500-234-8 |
| Classification | |
| Skin Irrit. 2 - H315 | |
| Eye Dam. 1 - H318 | |
| Aquatic Chronic 3 - H412 | |

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| | |
|--------------------------------------|--|
| ALCOHOLS, C12-14, ETHOXYLATED | 1-5% |
| CAS number: 68439-50-9 | EC number: 500-213-3 |
| Classification | |
| Acute Tox. 4 - H302 | |
| Eye Dam. 1 - H318 | |
| Aquatic Chronic 3 - H412 | |
| SODIUM CARBONATE | 1-5% |
| CAS number: 497-19-8 | EC number: 207-838-8 |
| Classification | Classification (67/548/EEC or 1999/45/EC) |
| Eye Irrit. 2 - H319 | Xi;R36 |
| BRONOPOL (INN) | <1% |
| CAS number: 52-51-7 | EC number: 200-143-0 |
| M factor (Acute) = 10 | |
| Classification | Classification (67/548/EEC or 1999/45/EC) |
| Acute Tox. 4 - H302 | Xn;R21/22 Xi;R37/38,R41 N;R50 |
| Acute Tox. 4 - H312 | |
| Skin Irrit. 2 - H315 | |
| Eye Dam. 1 - H318 | |
| STOT SE 3 - H335 | |
| Aquatic Acute 1 - H400 | |
| Aquatic Chronic 2 - H411 | |

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|----------------------------|--|
| General information | Provide eyewash station. |
| Inhalation | Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues. |
| Ingestion | Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues. |
| Skin contact | Rinse immediately with plenty of water. Remove contaminated clothing. Get medical attention if irritation persists after washing. |
| Eye contact | Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if symptoms are severe or persist after washing. Show this Safety Data Sheet to the medical personnel. |

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

| | |
|----------------------------|---|
| General information | Provide eyewash station. |
| Inhalation | Unlikely to be hazardous by inhalation because of the low vapour pressure of the product at ambient temperature. |
| Ingestion | Unlikely exposure route without abuse. Symptoms will include, Sickness, possible Irritation of GI Tract. A soapy taste may be reported. |

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| | |
|---------------------|---|
| Skin contact | Prolonged contact may cause redness, irritation and dry skin. |
| Eye contact | The product is irritating to eyes and skin. Prolonged or repeated exposure may cause the following adverse effects: Irritation and redness, followed by blurred vision. Corneal damage. Risk of serious damage to eyes. |

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

| | |
|-----------------------------|------------------------------|
| Notes for the doctor | No specific recommendations. |
|-----------------------------|------------------------------|

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|-------------------------------------|---|
| Suitable extinguishing media | The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire. Foam, carbon dioxide or dry powder. |
|-------------------------------------|---|

5.2. Special hazards arising from the substance or mixture

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| Hazardous combustion products | Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Toxic gases or vapours. |
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5.3. Advice for firefighters

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| Protective actions during firefighting | Control run-off water by containing and keeping it out of sewers and watercourses. |
| Special protective equipment for firefighters | Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

| | |
|-----------------------------|---|
| Personal precautions | For personal protection, see Section 8. Treat the spilled material according to the instructions in the clean-up section. Take care as floors and other surfaces may become slippery. |
|-----------------------------|---|

6.2. Environmental precautions

| | |
|----------------------------------|--|
| Environmental precautions | Collect and dispose of spillage as indicated in Section 13. Do not discharge into drains or watercourses or onto the ground. |
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6.3. Methods and material for containment and cleaning up

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|--------------------------------|---|
| Methods for cleaning up | Stop leak if safe to do so. Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses. |
|--------------------------------|---|

6.4. Reference to other sections

| | |
|------------------------------------|--|
| Reference to other sections | For personal protection, see Section 8. See Section 11 for additional information on health hazards. For waste disposal, see Section 13. |
|------------------------------------|--|

SECTION 7: Handling and storage

7.1. Precautions for safe handling

| | |
|--------------------------|--|
| Usage precautions | Provide adequate ventilation. Avoid spilling. Avoid contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet. Avoid breathing vapour/spray. Do not mix with other household chemical products. Do not mix with acid. |
|--------------------------|--|

| | |
|---|--|
| Advice on general occupational hygiene | Good personal hygiene procedures should be implemented. Do not eat, drink or smoke when using this product. Wash skin thoroughly after handling. Take off contaminated clothing and wash it before reuse. Use appropriate hand lotion to prevent defatting and cracking of skin. |
|---|--|

7.2. Conditions for safe storage, including any incompatibilities

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Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Store at room temperature. Keep out of the reach of children. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

7.3. Specific end use(s)

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

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

C12-14 ALKYL ETHER SULFATES (CAS: 68891-38-3)

DNEL Workers - Inhalation; Long term systemic effects: 175 mg/m³
 Workers - Dermal; Long term systemic effects: 2750 mg/kg/day
 Consumer - Inhalation; Long term systemic effects: 52 mg/m³
 Consumer - Dermal; Long term systemic effects: 1650 mg/kg/day
 Consumer - Oral; Long term systemic effects: 15 mg/kg/day

PNEC - Fresh water; 0.24 mg/l
 - marine water; 0.024 mg/l
 - Intermittent release; 0.071 mg/l
 - Sediment, Fresh water; 0.917 mg/kg
 - Sediment, marine water; 0.092 mg/kg
 - Soil; 7.5 mg/kg
 - STP; 10,000 mg/l

ALCOHOLS, C12-14, ETHOXYLATED (CAS: 68439-50-9)

DNEL Workers - Inhalation; Long term systemic effects: 294 mg/m³
 Workers - Dermal; Long term systemic effects: 2080 mg/kg/day
 General population - Inhalation; Long term systemic effects: 87 mg/m³
 General population - Dermal; Long term systemic effects: 1250 mg/kg/day
 General population - Oral; Long term systemic effects: 25 mg/kg/day

PNEC - Fresh water; 0.0437 mg/l
 - Intermittent release; 0.004 mg/l
 - STP; 10 mg/l
 - Sediment (Freshwater); 31 mg/kg
 - Sediment (Marinewater); 31 mg/kg
 - Soil; 1 mg/kg

SODIUM CARBONATE (CAS: 497-19-8)

DNEL Workers - Inhalation; Long term local effects: 10 mg/m³
 General population - Inhalation; Long term local effects: 10 mg/m³

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

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| | |
|-------------------|---|
| DNEL | Workers - Inhalation; Long term systemic effects: 4.1 mg/m ³ |
| | Workers - Inhalation; Short term systemic effects: 12.3 mg/m ³ |
| | Workers - Inhalation; Long term local effects: 4.2 mg/m ³ |
| | Workers - Inhalation; Short term local effects: 4.2 mg/m ³ |
| | Workers - Dermal; Long term systemic effects: 2.3 mg/kg/day |
| | Workers - Dermal; Short term systemic effects: 7 mg/kg/day |
| | Workers - Dermal; Long term local effects: 0.013 mg/cm ² |
| | Workers - Dermal; Short term local effects: 0.013 mg/cm ² |
| | General population - Inhalation; Long term systemic effects: 1.2 mg/m ³ |
| | General population - Inhalation; Short term systemic effects: 3.7 mg/m ³ |
| | General population - Inhalation; Long term local effects: 1.3 mg/m ³ |
| | General population - Inhalation; Short term local effects: 1.3 mg/m ³ |
| | General population - Dermal; Long term systemic effects: 1.4 mg/kg/day |
| | General population - Dermal; Short term systemic effects: 4.2 mg/kg/day |
| | General population - Dermal; Long term local effects: 0.008 mg/cm ² |
| | General population - Dermal; Short term local effects: 0.008 mg/cm ² |
| | General population - Oral; Long term systemic effects: 0.35 mg/kg/day |
| | General population - Oral; Short term systemic effects: 1.1 mg/kg/day |
| PNEC | - Fresh water; 0.01 mg/l |
| | - marine water; 0.008 mg/l |
| | - Intermittent release; 0.0025 mg/l |
| | - STP; 0.43 mg/l |
| | - Sediment (Freshwater); 0.041 mg/kg |
| | - Sediment (Marinewater); 0.00328 mg/kg |
| - Soil; 0.5 mg/kg | |

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses. Personal protective equipment that provides appropriate eye and face protection should be worn.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Polyvinyl chloride (PVC). Rubber (natural, latex). Neoprene. Nitrile rubber. Polyethylene. To protect hands from chemicals, wear gloves that are proven to be impervious to the chemical and resist degradation. A break through time of >60 minutes is suggested. Gloves should be inspected regularly for damage.

Other skin and body protection

Wear appropriate clothing to prevent repeated or prolonged skin contact. Use appropriate hand lotion to prevent defatting and cracking of skin.

Hygiene measures

Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Use appropriate skin cream to prevent drying of skin.

Respiratory protection

Respiratory protection not required.

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Environmental exposure controls Avoid releasing into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|---|
| Appearance | Liquid. |
| Colour | Light blue. |
| Odour | Perfumed. |
| Odour threshold | Not applicable. |
| pH | pH (concentrated solution): 8-10 |
| Melting point | Not determined. |
| Initial boiling point and range | Not determined but expected to be >90 Degrees C. |
| Flash point | This product is not flammable. |
| Evaporation rate | Not applicable. |
| Evaporation factor | Not applicable. |
| Flammability (solid, gas) | Not flammable. This product does not sustain combustion. |
| Upper/lower flammability or explosive limits | Not applicable. |
| Other flammability | Not applicable. |
| Vapour pressure | Not applicable. |
| Vapour density | Not applicable. |
| Relative density | 1.060 |
| Bulk density | Not applicable. |
| Solubility(ies) | Soluble in water. |
| Partition coefficient | Not technically possible for a mixture. |
| Auto-ignition temperature | Not applicable. |
| Decomposition Temperature | Not applicable. |
| Viscosity | 100-350 @ 20°C |
| Explosive properties | Not applicable |
| Explosive under the influence of a flame | Not considered to be explosive. |
| Oxidising properties | Not applicable. |
| Comments | Information given is applicable to the product as supplied. |

9.2. Other information

| | |
|--------------------------|---------------|
| Other information | Not relevant. |
| Refractive index | 14-16 |

SECTION 10: Stability and reactivity

10.1. Reactivity

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Reactivity Under normal storage conditions this product is stable.

10.2. Chemical stability

Stability Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Not applicable.

10.4. Conditions to avoid

Conditions to avoid Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

Hazardous decomposition products No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects Information given is based on data of the components and of similar products.

Acute toxicity - oral

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

ATE oral (mg/kg) 15,037.59

Acute toxicity - dermal

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

Acute toxicity - inhalation

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

Skin corrosion/irritation

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

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage. Calculation method.

Respiratory sensitisation

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

Skin sensitisation

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

Germ cell mutagenicity

Genotoxicity - in vitro Does not contain any substances known to be mutagenic.

Carcinogenicity

Carcinogenicity Does not contain any substances known to be carcinogenic.

Reproductive toxicity

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

Specific target organ toxicity - single exposure

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STOT - single exposure Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

General information This product has low toxicity.

Ingestion May cause irritation. Symptoms following overexposure may include the following: Stomach pain. Nausea, vomiting. Diarrhoea.

Skin contact Skin irritation should not occur when used as recommended. Prolonged or repeated exposure may cause the following adverse effects: Irritation. Redness. Dryness and/or cracking. Mild dermatitis, allergic skin rash.

Eye contact Irritating to eyes. May cause serious eye damage. Severe irritation, burning, tearing and blurred vision. Corneal damage.

11.2 Information on other hazards

11.2.1. Endocrine disrupting properties This product is not classified as, nor contains substances classed as having endocrine disrupting characteristics at levels >0.1% by weight (according to Regulation (EU) 2018/605).

11.2.2 Other information None known

SECTION 12: Ecological information

Ecotoxicity There are no data on the ecotoxicity of this product. Not regarded as dangerous for the environment.

12.1. Toxicity

Toxicity Not considered toxic to fish.

12.2. Persistence and degradability

Persistence and degradability The surfactant(s) contained in this product complies(comply) with the biodegradability criteria as laid down in The Detergents Regulations (as amended).

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not technically possible for a mixture.

12.4. Mobility in soil

Mobility The product is water-soluble and may spread in water systems.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Endocrine disrupting properties

Endocrine disrupting properties This product is not classified as, nor contains substances classed as having endocrine disrupting characteristics at levels >0.1% by weight (according to Regulation (EU) 2018/605).

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

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13.1. Waste treatment methods

| | |
|----------------------------|---|
| General information | Do not discharge into drains or watercourses or onto the ground. |
| Disposal methods | Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Normal use solutions are expected to be flushed to sewers. Reuse or recycle products wherever possible. |

SECTION 14: Transport information

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

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

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

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78
and the IBC Code

SECTION 15: Regulatory information

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

| | |
|-----------------------------|---|
| National regulations | <p>The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended).</p> <p>EH40/2005 Workplace exposure limits.</p> <p>The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 (SI 2020 No. 1577) (as amended).</p> <p>The Product Safety and Metrology etc. (Amendment etc.) (EU Exit) Regulations 2019 (SI 2019 No. 696) (as amended).</p> <p>The Detergents Regulations 2010 (SI 2010 No. 740) (as amended). The Detergents (Amendment) (EU Exit) Regulations 2019 (SI 2019 No. 612) (as amended). The Detergents (Safeguarding) (Amendment) (EU Exit) Regulations 2019 (SI 2019 No. 671) (as amended).</p> <p>The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019 (as amended).</p> <p>The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).</p> |
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EU legislation

European Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (as amended)
 European Regulation (EC) No 1907/2006 - Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended)
 European Regulation (EC) No 648/2004 on detergents (as amended)

Guidance

Workplace Exposure Limits EH40.
 ECHA Guidance on the Application of the CLP Criteria.
 ECHA Guidance on the compilation of safety data sheets.
 COSHH Essentials.
 Technical Guidance WM2: Hazardous Waste.

15.2. Chemical safety assessment

No information available.

SECTION 16: Other information

| | |
|---|---|
| Abbreviations and acronyms used in the safety data sheet | <p>DNEL: Derived No Effect Level. PBT: Persistent, Bioaccumulative and Toxic substance. PNEC: Predicted No Effect Concentration. MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.</p> |
| Revision comments | <p>NOTE: Lines within the margin indicate significant changes from the previous revision. Review of SDS with no change of classification. Note: Finished product SDS take their revision history from the parent bulk liquid SDS. The revision data will show that of the parent liquid.</p> |
| Revision date | 22/03/2024 |
| Revision | 4 |
| Supersedes date | 23/07/2018 |
| SDS number | 20611 |
| Hazard statements in full | <p>H302 Harmful if swallowed. H312 Harmful in contact with skin. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H400 Very toxic to aquatic life. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.</p> |

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.
 ----- END OF SDS -----