

SAFETY DATA SHEET

Unger's Liquid , Window Cleaning Soap 1L (EN)



The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

| | |
|---------------|------------|
| Date issued | 23.09.2017 |
| Revision date | 01.11.2018 |

1.1. Product identifier

| | |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product name | Unger's Liquid , Window Cleaning Soap 1L (EN) |
| Article no. | Unger's Liquid , Window Cleaning Soap 1L: FR100 / 79040; Glass Cleaner soap concentrate, 1L: 85542G / 855421 / 85542D; Unger's Liquid , Window Cleaning Soap 5L: FR500 / 79039; Unger's Gel, Window Cleaning Soap: FG050 / 79041; Window cleaning set: 79011 |

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

| | |
|------------------------------------------------|--------------------------------------------------|
| Function | Description: Detergent |
| Product group | Cleaning agents |
| Use of the substance / preparation | Glass Cleaner - Non-Aerosol |
| Uses advised against | No specific uses advised against are identified. |
| The chemical can be used by the general public | Yes |

1.3. Details of the supplier of the safety data sheet

| | |
|------------------|-----------------------------------------------------------------------------------------------------------------------|
| Company name | Unger Germany GmbH |
| Postal address | Piepersberg 44 |
| Postcode | D-42653 |
| City | Solingen |
| Country | Germany |
| Telephone number | +49 (0) 212 2207 0 |
| Fax | +49 (0) 212 2207 222 |
| Email | compliance@unger-europe.com |
| Website | www.ungerglobal.com / www.my-unger.com |

1.4. Emergency telephone number

| | |
|---------------------|--------------------------------------------------------------------------------------------------------------------------|
| Emergency telephone | Telephone number: +49 (0) 212 22 07 0 Description: Business hours: Monday to Thursday 8 am - 5 pm, Friday 8 am - 4 pm |
|---------------------|--------------------------------------------------------------------------------------------------------------------------|

SECTION 2: Hazards identification

2.1. Classification of substance or mixture

| | |
|----------------------------------------------------------------------|--------------------|
| Classification according to Regulation (EC) No 1272/2008 [CLP / GHS] | Eye Irrit. 2; H319 |
|----------------------------------------------------------------------|--------------------|

2.2. Label elements

Hazard pictograms (CLP)



| | |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Signal word | Warning |
| Hazard statements | H319 Causes serious eye irritation. |
| Precautionary statements | P101 If medical advice is needed, have product container or label at hand. P280 Wear protective gloves / protective clothing / eye protection / face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P405 Store locked up. |
| Other EU labelling requirements | Not known. |

2.3. Other hazards

| | |
|------------------------------------------|----------------------------------------------------------|
| Physicochemical effects | Cf. section 9 for physical-chemical information. |
| Health effect | May be harmful if swallowed. May irritate eyes and skin. |
| Environmental effects | Cf. section 12 for information on ecology. |
| Symptoms and effects of potential misuse | No information required. |

SECTION 3: Composition / information on ingredients

3.2. Mixtures

| Substance | Identification | Classification | Contents |
|----------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| Fatty alcohol ethoxylate (EU/EN) | CAS No.: 68439-50-9 EC No.: 500-213-3 REACH Reg. No.: 01-2119487984-16-XXXX | Acute tox. 4; H302; On basis of test data; Eye Dam. 1; H318; On basis of test data; Aquatic Chronic 3; H412; On basis of test data; | 1 < 5 % wt/wt |
| Ethanol (EU/EN) | CAS No.: 64-17-5 EC No.: 200-578-6 | Flam. Liq. 2; H225 | 1 < 5 % wt/wt |

| | | | |
|-------------------------------|-------------------------------------------------------------------------------------------|-------------------------|---------------|
| | Index No.: 603-002-00-5 | | |
| | REACH Reg. No.: | | |
| | 01-2119457610-43-XXXX | | |
| COCAMIDOPROPYLBETAINE (EU/EN) | CAS No.: 61789-40-0 | Eye Irrit. 2; H319 | 1 < 5 % wt/wt |
| | EC No.: 236-058-8 | Aquatic Chronic 3; H412 | |
| | REACH Reg. No.: | | |
| | 01-2119488533-30-XXXX | | |
| Description of the mixture | Aqueous solution of organic substances. Green or blue. Non-viscous liquid or viscous gel. | | |

SECTION 4: First aid measures

4.1. Description of first aid measures

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| General | Place unconscious person on the side in the recovery position and ensure breathing can take place. If medical advice is needed, have product container or label at hand. |
| Inhalation | Due to the small packaging the risk of inhalation is minimal. IF INHALED: Move into fresh air and keep at rest. |
| Skin contact | Wash skin with soap and water. |
| Eye contact | Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring along these instructions. |
| Ingestion | Immediately rinse mouth and drink plenty of water (200-300 ml). Do not give victim anything to drink if he is unconscious. Do NOT induce vomiting. If medical advice is needed, have product container or label at hand. |

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

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|----------------------------|--------------------|
| Acute symptoms and effects | Burning sensation. |
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4.3. Indication of any immediate medical attention and special treatment needed

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| Specific details on antidotes | Decontamination, symptomatic treatment. No special antidote known. |
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SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|------------------------------|---------------------------------------------------------------------------------------------|
| Suitable extinguishing media | Product doesn't ignite. Use fire-extinguishing media appropriate for surrounding materials. |
| Improper extinguishing media | Water jet. |

5.2. Special hazards arising from the substance or mixture

| | |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Fire and explosion hazards | This product is not flammable. |
| Hazardous combustion products | Carbon dioxide (CO ₂). Carbon monoxide (CO). Nitrous gases (NO _x). Organic decomposition products. |

5.3. Advice for firefighters

| | |
|-------------------------------|---------------------------------------------------------------------------------------------------------------|
| Personal protective equipment | In case of inadequate ventilation wear respiratory protection. Use personal protective equipment as required. |
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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|------------------------------|------------------------------------------------------------------------------------------------------------------------|
| General measures | Avoid dust formation. Avoid contact with eyes and skin. |
| Personal protection measures | Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. |
| For emergency responders | In case of inadequate ventilation wear respiratory protection. Use personal protective equipment as required. |

6.2. Environmental precautions

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|--------------------------------------|----------------------------------------------------------------|
| Environmental precautionary measures | Avoid discharge into drains, water courses or onto the ground. |
|--------------------------------------|----------------------------------------------------------------|

6.3. Methods and material for containment and cleaning up

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|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Clean up | Absorb spillage with non-combustible, absorbent material. Sweep-up or pick-up with an industrial vacuum cleaner, store in closed container for disposal. |
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6.4. Reference to other sections

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|--------------------|---------------------------------------------------------------------------|
| Other instructions | Cf. section 8 for personal protection, and section 13 for waste disposal. |
|--------------------|---------------------------------------------------------------------------|

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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| Handling | Observe good chemical hygiene practices. Avoid contact with eyes and prolonged skin contact. Avoid eating, drinking and smoking when using the product. |
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7.2. Conditions for safe storage, including any incompatibilities

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| Storage | Store at moderate temperatures in dry, well ventilated area. |
|---------|--------------------------------------------------------------|

Conditions for safe storage

| | |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Requirements for storage rooms and vessels | Storage in gateways, passages, stairways, hallways open to public, roofs, attics, cellars and work-rooms is not admissible. |
| Advice on storage compatibility | No incompatibilities known. |

7.3. Specific end use(s)

| | |
|-----------------|-----------------|
| Recommendations | cf. section 1.2 |
|-----------------|-----------------|

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

| Substance | Identification | Value | TWA Year |
|------------------------|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Ethanol (EU/EN) | CAS No.: 64-17-5 | TWA (8h) : 1920 mg/m ³ Exposure limit letter Letter code: WEL Exposure limit letter Letter description: Workplace Exposure Limit Source: Guidance Note EH40 – Occupational Exposure Limits (U.K.) | |
| Biological limit value | Recommended monitoring procedures: DFG Air Analysis: Method Nr. 6 Solvent mixtures. MetroPol Card 017: Ethyl alcohol. | | |

8.2. Exposure controls

Safety signs



Precautionary measures to prevent exposure

| | |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Organisational measures to prevent exposure | Thoroughly clean hands, forearms, and face after handling of the product, before eating, drinking and lavatory use, and at the end of the work shift. |
| Technical measures to prevent exposure | Use engineering controls to reduce air contamination to permissible exposure level. |

Eye / face protection

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|---------------------|--------------------------------------------------------------------------|
| Required Properties | Wear approved, tight fitting safety glasses where splashing is probable. |
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Hand protection

| | |
|--------------------------------------------|------------------------------------------------------------------------|
| Skin- / hand protection, long term contact | For prolonged or repeated skin contact use suitable protective gloves. |
| Suitable materials | Gloves of nitrile rubber, PVA or Viton are recommended. |
| Unsuitable materials | Leather or textile. |
| Breakthrough time | Value: >480 min |
| Thickness of glove material | Value: 0,4 mm |
| Hand protection, comments | On basis of test data. |

Skin protection

| | |
|------------------------------|---------------------------------------------|
| Suitable protective clothing | Generally regular work clothing sufficient. |
|------------------------------|---------------------------------------------|

Respiratory protection

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|-------------------------------------|-------------------------------------------------------------------------------|
| Respiratory protection necessary at | Under normal conditions of use respiration protection should not be required. |
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| Respiratory protection, comments | In case of inadequate ventilation or when the product is heated, use suitable respiratory equipment with gas filter (type A2). |
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Hygiene / environmental

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|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Specific hygiene measures | No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals. When using do not eat, drink or smoke. Wash at the end of each work shift and before eating, smoking and using the toilet. |
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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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| Physical state | Non-viscous liquid or viscous gel. |
| Colour | Green or blue. |
| Odour | Fresh. |
| pH | Status: In delivery state Comments: No data recorded. Status: In aqueous solution Value: 6,7 |
| Boiling point / boiling range | Comments: No data recorded. |
| Flash point | Comments: No data recorded. |
| Evaporation rate | Comments: No data recorded. |
| Flammability (solid, gas) | No data recorded. |
| Vapour pressure | Comments: No data recorded. |
| Vapour density | Comments: No data recorded. |
| Density | Value: 1,006 g/ml |
| Solubility | Medium: Water Comments: Unlimited miscible |
| Decomposition temperature | Comments: No data recorded. |
| Viscosity | Comments: No data recorded. |
| Explosive properties | Not explosive |
| Oxidising properties | Not oxidizing |

9.2. Other information

| | |
|-----------------|-----------------------------|
| Softening point | Comments: No data available |
|-----------------|-----------------------------|

Physical hazards

| | |
|----------------|-----------------------------|
| Content of VOC | Comments: No data available |
| Particle size | Comments: No data recorded. |

SECTION 10: Stability and reactivity

10.1. Reactivity

| | |
|------------|------------------------------|
| Reactivity | Stable in normal conditions. |
|------------|------------------------------|

10.2. Chemical stability

| | |
|-----------|-----------------------------------------------------------------|
| Stability | Stable under normal temperature conditions and recommended use. |
|-----------|-----------------------------------------------------------------|

10.3. Possibility of hazardous reactions

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|------------------------------------|------------------------------------------------------------------------------|
| Possibility of hazardous reactions | No hazardous reactions under regular storage and handlings conditions known. |
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10.4. Conditions to avoid

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|---------------------|----------|
| Conditions to avoid | Heating. |
|---------------------|----------|

10.5. Incompatible materials

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| Materials to avoid | Strong acids. |
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10.6. Hazardous decomposition products

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| Hazardous decomposition products | Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Organic decomposition products. |
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

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|-----------|----------------------------------|
| Substance | Fatty alcohol ethoxylate (EU/EN) |
|-----------|----------------------------------|

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|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute toxicity | Type of toxicity: Acute Effect tested: LD50 Route of exposure: Oral Value: 200-2000 mg/kg bw Animal test species: rat |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| | |
|-----------|-------------------------------|
| Substance | COCAMIDOPROPYLBETAINE (EU/EN) |
|-----------|-------------------------------|

| | |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute toxicity | Type of toxicity: Acute Effect tested: LD50 Route of exposure: Oral Value: > 4900 mg/kg bw Animal test species: rat |
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Other information regarding health hazards

| | |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye damage or irritation, test results | Toxicity type: Eye damage Method: OECD Guideline 437 / EU Method B.47 / Bovine Corneal Opacity and Permeability (BCOP Test) Species: In-vitro test on bovine cornea (Bos primigenius taurus) Test reference: Incubation time: 10 minutes at 32+-1°C Negative control: 0.9% sodium chloride solution Positive control: dimethyl formamide (DMF) Comments: Negative control: IVIS -0,011 Positive control: IVIS 59,1 Sample: IVIS 19,6 |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Result: negative / product is not to be classified as eye damaging, but as a precaution to be classified as eye irritating. |
| Inhalation | No specific health warnings noted. Dust may irritate respiratory system. |
| Skin contact | No specific health warnings noted. Dust has an irritating effect on moist skin. Prolonged contact may cause redness and irritation. |
| Eye contact | Prolonged contact may cause redness and/or tearing. Causes serious eye irritation. |
| Ingestion | No specific health warnings noted. The product causes irritation of mucous membranes and may cause abdominal discomfort if swallowed. Ingestion may cause irritation of the gastrointestinal tract, vomiting and diarrhoea. |
| Sensitisation | No specific health warnings noted. |
| Mutagenicity | No specific health warnings noted. |
| Carcinogenicity, other information | No specific health warnings noted. |
| Reproductive toxicity | No specific health warnings noted. |
| Specific target organ toxicity SE, human experience | No data available, probably no chronic toxicity |
| Assessment of specific target organ SE, classification | No data available, probably no subchronic toxicity |
| Aspiration hazard, comments | No data recorded. |

SECTION 12: Ecological information

12.1. Toxicity

| | |
|------------------------|----------------------------------------------------------------------------------------|
| Substance | Fatty alcohol ethoxylate (EU/EN) |
| Acute aquatic, fish | Value: 1 - 10 mg/l Method: LC50 |
| Substance | COCAMIDOPROPYLBETAINE (EU/EN) |
| Acute aquatic, fish | Value: 0,16 mg/l Species: Onchorhynchus mykiss Method: NOEC |
| Substance | COCAMIDOPROPYLBETAINE (EU/EN) |
| Acute aquatic, Daphnia | Value: 0,9 mg/l Species: Daphnia magna Method: NOEC |
| Substance | Fatty alcohol ethoxylate (EU/EN) |
| Toxicity to bacteria | Toxicity type: Acute Value: 10 - 100 mg/l |

12.2. Persistence and degradability

| | |
|-----------------------------------------|------------------------------------------------------|
| Persistence and degradability, comments | All organic components are considered biodegradable. |
|-----------------------------------------|------------------------------------------------------|

12.3. Bioaccumulative potential

| | |
|---------------------------|-------------------------------------|
| Bioaccumulative potential | The product is not bioaccumulating. |
|---------------------------|-------------------------------------|

12.4. Mobility in soil

| | |
|----------|------------------------------------------------------------|
| Mobility | No data on possible environmental effects have been found. |
|----------|------------------------------------------------------------|

12.5. Results of PBT and vPvB assessment

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|------------------------|-----------------------------------------------------------|
| PBT assessment results | This product does not contain any PBT or vPvB substances. |
|------------------------|-----------------------------------------------------------|

12.6. Other adverse effects

| | |
|----------------------------------------|-----------------------------------------------|
| Ozone depletion potential | Comments: Ozone depletion potential not known |
| Photochemical ozone creation potential | Comments: Ozone formation potential not known |
| Global warming potential | Comments: Global greenhouse effect not known |

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Specify the appropriate methods of disposal | Dispose of waste and residues in accordance with local authority requirements. No specific disposal method required. |
| EWC waste code | EWC waste code: 070601 aqueous washing liquids and mother liquors Classified as hazardous waste: Yes EWC waste code: 150110 packaging containing residues of or contaminated by dangerous substances Classified as hazardous waste: Yes |
| EU Regulations | European Waste Inventory according to the Decision 2014/955/EU on the list of waste |
| Other information | Submit contaminated packagings to take-back systems or to a regulated recycling or disposal by an approved disposal company. |

SECTION 14: Transport information

14.1. UN number

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|----------|--------------------------|
| Comments | No recommendation given. |
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14.2. UN proper shipping name

| | |
|----------|--------------------------|
| Comments | No recommendation given. |
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14.3. Transport hazard class(es)

| | |
|----------|--------------------------|
| Comments | No recommendation given. |
|----------|--------------------------|

14.4. Packing group

| | |
|----------|--------------------------|
| Comments | No recommendation given. |
|----------|--------------------------|

14.5. Environmental hazards

| | |
|----------|--------------------------|
| Comments | No recommendation given. |
|----------|--------------------------|

14.6. Special precautions for user

| | |
|-------------------------------------|--------------------------|
| Special safety precautions for user | No recommendation given. |
|-------------------------------------|--------------------------|

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

| | |
|--------------|--------------------------|
| Product name | No recommendation given. |
|--------------|--------------------------|

Additional information

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

ADR / RID - Other information

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|----------------------------|--------------------------|
| ADR additional information | No recommendation given. |
|----------------------------|--------------------------|

ADN - Other information

| | |
|----------------------------|--------------------------|
| ADN additional information | No recommendation given. |
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IMDG / ICAO / IATA Other information

| | |
|-----------------------------|--------------------------|
| IMDG Additional information | No recommendation given. |
|-----------------------------|--------------------------|

SECTION 15: Regulatory information

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

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|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EEC-directive | Regulation (EC) No. 1907/2006 and Regulation (EC) 2015/830 The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer. |
| Detergents | Ingredients according to the Regulation on Detergents 648/2004: less than 5% amphoteric surfactants, non-ionic surfactants, limonene. |
| References (laws/regulations) | Other UK regulations and guidances: Health and Safety at Work Act 1974. The Managing for health and safety (HSG65) 2013. L5 Control of substances hazardous to Health. The Control of Substances Hazardous to Health Regulations 2002. Approved codes of practice and guidance. Guidance Note EH40 – Occupational Exposure Limits. BS EN ISO 10882-1:2001 – health and safety in welding and allied processes – sampling of air-borne particles and gases in the operator's breathing zone – part 1: sampling of airborne particles. |

15.2. Chemical safety assessment

| | |
|--------------------------------------|--------------------------|
| Chemical safety assessment performed | No |
| Chemical safety assessment | No data recorded. |
| Exposure scenarios for mixture | No |
| Exposure scenario comments | No recommendation given. |

SECTION 16: Other information

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|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Supplier's notes | The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user. |
| List of relevant H-phrases (Section 2 and 3) | H225 Highly flammable liquid and vapour. H302 Harmful if swallowed. H318 Causes serious eye damage. H319 Causes serious eye irritation. H412 Harmful to aquatic life with long lasting effects. |
| Classification according to Regulation (EC) No 1272/2008 [CLP / GHS] | Eye Irrit. 2; H319; |
| Training advice | No information required. |
| Recommended restrictions on use | Not relevant. |
| Additional information | Previous version: 1.1 from 23.09.2017 Current version: 2.0 from 01.11.2018 Type of change: recreating Reason for change: expiry of the last transitional period of Regulation (EC) No 1907/2006 (REACH Regulation) on 31 May 2018. |
| User notes | In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material, as far as not expressly stated otherwise. |
| Version | 2 |