

This safety data sheet was created pursuant to the requirements of:  
UK REACH Regulations (SI 2019/758 as amended)

**Supersedes date** 05-Nov-2025

**Revision date** 04-Jun-2026

**Revision Number** 2

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

### 1.1. Product identifier

**Product Code(s)** 127349

**Safety data sheet number** 127349

**Product Name** NERASOFT S10

**Synonyms** NERASOFT S10 RSPO MB

**Pure substance/mixture** Mixture

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

**Recommended use** Softening agent for fabrics  
Detergent

### 1.3. Details of the supplier of the safety data sheet

#### Supplier

Univar Solutions UK Ltd  
Aquarius House  
6 Mid Point Business Park  
Bradford  
GBR

For further information, please contact

**E-mail address** SDS.EMEA@univarsolutions.com

**Non-Emergency Telephone Number** +44 1274 267300 / +44 1274 267306

### 1.4. Emergency telephone number

**Emergency Telephone** SGS - +32 (0)3 575 55 55 (24h)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

|                                 |                     |
|---------------------------------|---------------------|
| <b>Flammable liquids</b>        | Category 3 - (H226) |
| <b>Chronic aquatic toxicity</b> | Category 3 - (H412) |

### 2.2. Label elements

**Signal word**

Warning

**Hazard statements**

H412 - Harmful to aquatic life with long lasting effects

H226 - Flammable liquid and vapour

**Precautionary statements**

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P273 - Avoid release to the environment

P501 - Dispose of contents/ container to an approved waste disposal plant

**Unknown aquatic toxicity**

Contains 0 % of components with unknown hazards to the aquatic environment.

**2.3. Other hazards**

No information available.

**SECTION 3: Composition/information on ingredients****3.1 Substances**

Not applicable

**3.2 Mixtures**

| Chemical name                                                                                               | Weight-%       | EC No (EU Index No)         | UK REACH registration number | Classification according to GB CLP (SI 2020/1567 as amended)            | Specific concentration limit (SCL)                    | M-Factor | M-Factor (long-term) |
|-------------------------------------------------------------------------------------------------------------|----------------|-----------------------------|------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------|----------|----------------------|
| ETHANOL<br>64-17-5                                                                                          | >= 5 - <= 45 % | 200-578-6<br>(603-002-00-5) | -                            | Flam. Liq. 2 (H225)<br>Eye Irrit. 2 (H319)                              | Eye Irrit. 2 (H319) ::<br>C>=50%                      | -        | -                    |
| REACTION PRODUCTS OF C18 (UNSATURATED) FATTY ACIDS AND DIMETHYL SULFATE AND TRIETHANOLAMINE<br>1335202-95-3 | >= 5 - <= 25 % | 931-216-1                   | -                            | Aquatic Chronic 3 (H412)<br>Eye Irrit. 2 (H319)<br>Skin Irrit. 2 (H315) | Skin Irrit. 2::<br>C>=28%<br>Eye Irrit. 2::<br>C>=28% | -        | -                    |

**Full text of H- and EUH-phrases: see section 16**

This product does not contain candidate substances of very high concern at a concentration &gt;= 0.1% (UK REACH Article 59)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                    |                                                                                                                                                                                                                                         |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inhalation                         | IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Rinse mouth thoroughly with water. Get medical attention if symptoms occur.                                                                   |
| Eye contact                        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms occur.                                   |
| Skin contact                       | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if symptoms occur.                                                                                     |
| Ingestion                          | Rinse mouth thoroughly with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting without medical advice. Get medical attention if symptoms occur. |
| Self-protection of the first aider | No action shall be taken involving any personal risk or without suitable training.                                                                                                                                                      |

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

#### Symptoms

|      |                                     |
|------|-------------------------------------|
| Eyes | May cause temporary eye irritation. |
|------|-------------------------------------|

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

|                 |                                                                                                                           |
|-----------------|---------------------------------------------------------------------------------------------------------------------------|
| Note to doctors | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
|-----------------|---------------------------------------------------------------------------------------------------------------------------|

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                                |                                                                    |
|--------------------------------|--------------------------------------------------------------------|
| Suitable Extinguishing Media   | Dry chemical, CO2, alcohol-resistant foam or water spray.          |
| Large Fire                     | CAUTION: Use of water spray when fighting fire may be inefficient. |
| Unsuitable extinguishing media | Do not scatter spilled material with high pressure water streams.  |

### 5.2. Special hazards arising from the substance or mixture

|                                            |                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Specific hazards arising from the chemical | When heated and in case of fire, toxic vapours/gases may be formed. Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. Containers can burst violently when heated, due to excess pressure build-up. Harmful to aquatic life with long lasting effects. Do not allow run-off from fire-fighting to enter drains or water courses. |
| Hazardous combustion products              | Carbon oxides.                                                                                                                                                                                                                                                                                                                                                  |

### 5.3. Advice for firefighters

|                                                                |                                                                                                                                    |
|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Special protective equipment and precautions for fire-fighters | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |
|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|

## SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions</b>     | Ensure adequate ventilation. Use personal protection recommended in Section 8. Avoid contact with skin, eyes and inhalation of vapours. No action shall be taken involving any personal risk or without suitable training. Evacuate personnel to safe areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| <b>Other information</b>        | Ventilate the area.                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>For emergency responders</b> | Use personal protection recommended in Section 8.                                                                                                                                                                                                                                                                                                                                                                                                                    |

**6.2. Environmental precautions**

|                                  |                                                                                                                                                      |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Environmental precautions</b> | Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|

**6.3. Methods and material for containment and cleaning up**

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Methods for containment</b>         | Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapour suppressing foam may be used to reduce vapours. Dyke far ahead of spill to collect run-off water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.                                                   |
| <b>Methods for cleaning up</b>         | Stop leak if possible without any risk. Move containers from fire area if you can do it without risk. Use spark-proof tools and explosion-proof equipment. Keep upwind. Do not allow run-off from fire-fighting to enter drains or water courses. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Pick up and transfer to properly labelled containers. |
| <b>Prevention of secondary hazards</b> | Clean contaminated objects and areas thoroughly observing environmental regulations.                                                                                                                                                                                                                                                                                                                             |

**6.4. Reference to other sections**

|                                    |                                                                          |
|------------------------------------|--------------------------------------------------------------------------|
| <b>Reference to other sections</b> | See section 8 for more information. See section 13 for more information. |
|------------------------------------|--------------------------------------------------------------------------|

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Advice on safe handling</b>        | Ensure adequate ventilation. Use personal protection recommended in Section 8. Avoid contact with skin, eyes and inhalation of vapours. Do not swallow. Avoid release to the environment. In case of inadequate ventilation wear respiratory protection. Do not enter storage areas and confined spaces unless adequately ventilated. Keep container closed when not in use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use spark-proof tools and explosion-proof equipment. Take precautionary measures against static discharge. Empty containers retain product residue and can be hazardous. Do not re-use container. |
| <b>General hygiene considerations</b> | Do not eat, drink or smoke when using the product. Wash hands before breaks and immediately after handling the product. Remove contaminated clothing and protective equipment before entering eating areas. Use personal protection recommended in Section 8. Handle in accordance with good industrial hygiene and safety practice.                                                                                                                                                                                                                                                                                                                                          |

**7.2. Conditions for safe storage, including any incompatibilities**

|                           |                                                                                                 |
|---------------------------|-------------------------------------------------------------------------------------------------|
| <b>Storage Conditions</b> | Keep container tightly closed in a dry and well-ventilated place. Protect from direct sunlight. |
|---------------------------|-------------------------------------------------------------------------------------------------|

See section 10 for more information. Keep away from food, drink and animal feedingstuffs. Remove all sources of ignition. Store away from the following materials. Strong oxidising agents. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Keep in properly labelled containers. Use appropriate containment to avoid environmental contamination.

### 7.3. Specific end use(s)

#### Specific use(s)

See section 1 for more information.

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure Limits

| Chemical name      | United Kingdom                                                                                 |
|--------------------|------------------------------------------------------------------------------------------------|
| ETHANOL<br>64-17-5 | TWA: 1000 ppm<br>TWA: 1920 mg/m <sup>3</sup><br>STEL: 3000 ppm<br>STEL: 5760 mg/m <sup>3</sup> |

**Biological occupational exposure limits** This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

#### Derived No Effect Level (DNEL) - Workers

| Chemical name                                                                                                        | Oral | Dermal                | Inhalation                     |
|----------------------------------------------------------------------------------------------------------------------|------|-----------------------|--------------------------------|
| ETHANOL<br>64-17-5                                                                                                   |      | 267 mg/kg [4] [6]     | 380 mg/m <sup>3</sup> [4] [6]  |
| REACTION PRODUCTS OF C18<br>(UNSATURATED) FATTY ACIDS AND<br>DIMETHYL SULFATE AND<br>TRIETHANOLAMINE<br>1335202-95-3 |      | 105 mg/kg/day [4] [6] | 14.8 mg/m <sup>3</sup> [4] [6] |

[4] Systemic health effects.  
[5] Local health effects.  
[6] Long term.  
[7] Short term.

#### Derived No Effect Level (DNEL) - General Public

| Chemical name                                                                                                        | Oral                  | Dermal                 | Inhalation                     |
|----------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------|--------------------------------|
| ETHANOL<br>64-17-5                                                                                                   |                       |                        | 114 mg/m <sup>3</sup> [4] [6]  |
| REACTION PRODUCTS OF C18<br>(UNSATURATED) FATTY ACIDS AND<br>DIMETHYL SULFATE AND<br>TRIETHANOLAMINE<br>1335202-95-3 | 1.5 mg/kg/day [4] [6] | 37.5 mg/kg/day [4] [6] | 2.61 mg/m <sup>3</sup> [4] [6] |

|     |                          |
|-----|--------------------------|
| [4] | Systemic health effects. |
| [5] | Local health effects.    |
| [6] | Long term.               |
| [7] | Short term.              |

**Predicted No Effect Concentration (PNEC)**

| Chemical name                                                                                                           | Freshwater | Freshwater<br>(intermittent release) | Marine water | Marine water<br>(intermittent release) | Air |
|-------------------------------------------------------------------------------------------------------------------------|------------|--------------------------------------|--------------|----------------------------------------|-----|
| ETHANOL<br>64-17-5                                                                                                      | 0.96 mg/L  | 2.75 mg/L                            | 0.79 mg/L    |                                        |     |
| REACTION PRODUCTS<br>OF C18 (UNSATURATED)<br>FATTY ACIDS AND<br>DIMETHYL SULFATE AND<br>TRIETHANOLAMINE<br>1335202-95-3 | 0.022 mg/l |                                      | 0.002 mg/l   |                                        |     |

| Chemical name                                                                                                           | Freshwater<br>sediment | Marine sediment | Sewage treatment | Soil        | Food chain |
|-------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------|------------------|-------------|------------|
| ETHANOL<br>64-17-5                                                                                                      | 3.6 mg/kg              | 2.9 mg/kg       | 580 mg/L         | 0.63 mg/kg  | 0.38 g/kg  |
| REACTION PRODUCTS<br>OF C18 (UNSATURATED)<br>FATTY ACIDS AND<br>DIMETHYL SULFATE AND<br>TRIETHANOLAMINE<br>1335202-95-3 | 22.48 mg/kg            | 2.248 mg/kg     | 2.96 mg/l        | 4.483 mg/kg |            |

**8.2. Exposure controls**

**Engineering controls** No information available.

**Personal protective equipment**

**Eye/face protection** Wear safety glasses with side shields (or goggles). Use eye protection according to EN 166.

**Hand protection** Wear suitable gloves. Gloves must conform to standard EN 374.

| Gloves              |                                     |                 |                    |
|---------------------|-------------------------------------|-----------------|--------------------|
| Duration of contact | PPE - Glove material                | Glove thickness | Break through time |
|                     | Wear protective butyl rubber gloves |                 | > 8 hours          |

**Skin and body protection** Wear appropriate clothing to prevent reasonably probable skin contact. Chemical resistant apron. Antistatic footwear.

**Respiratory protection** Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

**General hygiene considerations** Do not eat, drink or smoke when using the product. Wash hands before breaks and

immediately after handling the product. Remove contaminated clothing and protective equipment before entering eating areas. Use personal protection recommended in Section 8. Handle in accordance with good industrial hygiene and safety practice.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                 |                          |
|-----------------|--------------------------|
| Physical state  | Liquid                   |
| Appearance      | Viscous liquid           |
| Colour          | Colourless transparent   |
| Odour           | Characteristic.          |
| Odour threshold | No information available |

| Property                                | Values                        | Remarks • Method                  |
|-----------------------------------------|-------------------------------|-----------------------------------|
| Melting point / freezing point          |                               | No information available.         |
| Initial boiling point and boiling range |                               | No information available.         |
| Flammability                            |                               | No information available.         |
| Flammability Limit in Air               |                               | No information available.         |
| Upper flammability or explosive limits  |                               |                                   |
| Lower flammability or explosive limits  |                               |                                   |
| Flash point                             | 29 - 31 °C                    | Pensky-Martens Closed Cup (PMCC). |
| Autoignition temperature                |                               | No information available.         |
| Decomposition temperature               |                               | No information available.         |
| pH                                      | 2 - 4                         | solution (5 %).                   |
| pH (as aqueous solution)                |                               | No information available.         |
| Kinematic viscosity                     | 0 mm <sup>2</sup> /s          | @ 40 °C.                          |
| Dynamic viscosity                       | 1500 - 2000 cP                |                                   |
| Water solubility                        | No data available             | No information available.         |
| Solubility(ies)                         |                               | No information available.         |
| Partition coefficient                   |                               | Not applicable.                   |
| Vapour pressure                         |                               | No information available.         |
| Relative density                        |                               | No information available.         |
| Bulk density                            |                               | No information available          |
| Liquid Density                          | 1.03 - 1.05 g/cm <sup>3</sup> | @ 20 °C                           |
| Relative vapour density                 |                               | No information available.         |
| Particle characteristics                |                               | Not applicable.                   |
| Particle Size                           | No information available      |                                   |
| Particle Size Distribution              | No information available      |                                   |
| Explosive properties                    | No information available      |                                   |
| Oxidising properties                    | No information available      |                                   |

### 9.2. Other information

|                 |            |
|-----------------|------------|
| Softening point | 8 to 12 °C |
|-----------------|------------|

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

|            |                                                                                            |
|------------|--------------------------------------------------------------------------------------------|
| Reactivity | No specific test data related to reactivity available for this product or its ingredients. |
|------------|--------------------------------------------------------------------------------------------|

### 10.2. Chemical stability

|           |                                 |
|-----------|---------------------------------|
| Stability | Stable under normal conditions. |
|-----------|---------------------------------|

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge Yes.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Under normal conditions of storage and use, hazardous reactions will not occur.

### 10.4. Conditions to avoid

**Conditions to avoid** Keep away from open flames, hot surfaces and sources of ignition. Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

### 10.5. Incompatible materials

**Incompatible materials** Strong oxidising agents.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Carbon oxides.

## **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

#### Information on likely routes of exposure

##### **Product Information**

**Inhalation** Inhalation of vapours in high concentration may cause irritation of respiratory system.

**Eye contact** May cause temporary eye irritation.

**Skin contact** May cause slight skin irritation.

**Ingestion** May cause discomfort if swallowed.

#### Symptoms related to the physical, chemical and toxicological characteristics

##### **Symptoms**

##### Acute toxicity

##### **Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

##### **Component Information**

| Chemical name                                                                               | Oral LD50            | Dermal LD50          | Inhalation LC50                |
|---------------------------------------------------------------------------------------------|----------------------|----------------------|--------------------------------|
| ETHANOL                                                                                     | > 5000 mg/kg (Rat)   | -                    | > 20 mg/L (Rat) (4 h) (Vapour) |
| REACTION PRODUCTS OF C18 (UNSATURATED) FATTY ACIDS AND DIMETHYL SULFATE AND TRIETHANOLAMINE | > 5000 mg/kg ( Rat ) | > 2000 mg/kg ( Rat ) | -                              |

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** No known significant effects or critical hazards.



REACTION PRODUCTS OF C18 (UNSATURATED) FATTY ACIDS AND DIMETHYL SULFATE AND TRIETHANOLAMINE  
(1335202-95-3)

| Method                                               | Species | Exposure route | Effective dose | Exposure time | Results                |
|------------------------------------------------------|---------|----------------|----------------|---------------|------------------------|
| OECD Test No. 404: Acute Dermal Irritation/Corrosion | Rabbit  | Dermal         |                |               | Causes skin irritation |

**Serious eye damage/eye irritation** No known significant effects or critical hazards.

ETHANOL (64-17-5)

| Method | Species | Exposure route | Effective dose | Exposure time | Results                       |
|--------|---------|----------------|----------------|---------------|-------------------------------|
|        |         | eye            |                |               | Causes serious eye irritation |

REACTION PRODUCTS OF C18 (UNSATURATED) FATTY ACIDS AND DIMETHYL SULFATE AND TRIETHANOLAMINE  
(1335202-95-3)

| Method                                            | Species | Exposure route | Effective dose | Exposure time | Results                       |
|---------------------------------------------------|---------|----------------|----------------|---------------|-------------------------------|
| OECD Test No. 405: Acute Eye Irritation/Corrosion | Rabbit  | eye            |                |               | Causes serious eye irritation |

**Respiratory or skin sensitisation** No known significant effects or critical hazards.

REACTION PRODUCTS OF C18 (UNSATURATED) FATTY ACIDS AND DIMETHYL SULFATE AND TRIETHANOLAMINE  
(1335202-95-3)

| Method | Species    | Exposure route | Results               |
|--------|------------|----------------|-----------------------|
|        | Guinea pig | Dermal         | Not a skin sensitiser |

**Germ cell mutagenicity** No known significant effects or critical hazards.

Component Information

REACTION PRODUCTS OF C18 (UNSATURATED) FATTY ACIDS AND DIMETHYL SULFATE AND TRIETHANOLAMINE  
(1335202-95-3)

| Method                                                                                       | Species                      | Results  |
|----------------------------------------------------------------------------------------------|------------------------------|----------|
| OECD Test No. 471: Bacterial Reverse Mutation Test                                           | in vitro<br>Bacteria         | Negative |
| OECD Test No. 476: In Vitro Mammalian Cell Gene Mutation Tests using the Hprt and xprt genes | in vitro<br>Mammalian-Animal | Negative |
| OECD Test No. 473: In vitro Mammalian Chromosome Aberration Test                             | in vitro<br>Mammalian-Animal | Negative |

**Carcinogenicity** No known significant effects or critical hazards.

**Reproductive toxicity** No known significant effects or critical hazards.

**STOT - single exposure** No known significant effects or critical hazards.

**STOT - repeated exposure** No known significant effects or critical hazards.

**Aspiration hazard** No known significant effects or critical hazards.

**Other adverse effects** No information available.

## SECTION 12: Ecological information

### 12.1. Toxicity

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

**Unknown aquatic toxicity** Contains 0 % of components with unknown hazards to the aquatic environment.

#### ETHANOL (64-17-5)

| Method                                                                                   | Species   | Endpoint type | Effective dose | Exposure time | Results        |
|------------------------------------------------------------------------------------------|-----------|---------------|----------------|---------------|----------------|
| EPA E03-05                                                                               | Fish      | LC50          | > 100 mg/L     | 96 hours      | Not classified |
| ASTM E729-80                                                                             | Crustacea | EC50          | > 100 mg/L     | 48 hours      | Not classified |
| Similar to OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test | Algae     | ErC50         | > 100 mg/L     | 72 hours      | Not classified |
| OECD Test No. 212: Fish, Short-term Toxicity Test on Embryo and Sac-Fry Stages           | Fish      | NOEC          | > 1 mg/L       | 104 days      | Not classified |
|                                                                                          | Crustacea | NOEC          | > 1 mg/L       | 10 days       | Not classified |
| Similar to OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test | Algae     | ErC10         | > 1 mg/L       | 72 hours      | Not classified |

#### REACTION PRODUCTS OF C18 (UNSATURATED) FATTY ACIDS AND DIMETHYL SULFATE AND TRIETHANOLAMINE (1335202-95-3)

| Method                                                                        | Species                                  | Endpoint type | Effective dose | Exposure time | Results |
|-------------------------------------------------------------------------------|------------------------------------------|---------------|----------------|---------------|---------|
| OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test | Algae<br>Desmodesmus subspicatus         | EC50          | 2.14 mg/L      | 72 hours      |         |
| EU Method C.2                                                                 | Daphnia magna                            | EC50          | 2.23 mg/L      | 48 hours      |         |
| OECD Test No. 203: Fish, Acute Toxicity Test                                  | Fish Oncorhynchus mykiss (rainbow trout) | LC50          | 1.91 mg/L      | 96 hours      |         |
| OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test | Algae<br>Desmodesmus subspicatus         | EC10          | 1.48 mg/L      | 72 hours      |         |
| OECD Test No. 211: Daphnia magna Reproduction Test                            | Daphnia magna                            | EC10          | 0.346 mg/L     | 21 days       |         |
| OECD Test No. 210: Fish, Early-Life Stage Toxicity Test                       | Fish                                     | NOEC          | 0.224 mg/L     | 30 days       |         |

### 12.2. Persistence and degradability

**Persistence and degradability** This surfactant complies 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.

#### ETHANOL (64-17-5)

| Method | Exposure time | Value               | Results               |
|--------|---------------|---------------------|-----------------------|
|        | 20 days       | ~84% Biodegradation | Readily biodegradable |

#### REACTION PRODUCTS OF C18 (UNSATURATED) FATTY ACIDS AND DIMETHYL SULFATE AND TRIETHANOLAMINE (1335202-95-3)

| Method                                                                     | Exposure time | Value                 | Results               |
|----------------------------------------------------------------------------|---------------|-----------------------|-----------------------|
| ECETOC Technical Report No. 28<br>(Evaluation of Anaerobic Biodegradation) | 56 days       | Biodegradation > 70 % | Readily biodegradable |
| OECD Test No. 301B: Ready Biodegradability: CO2 Evolution Test (TG 301 B)  | 28 days       | Biodegradation > 60 % | Readily biodegradable |

### 12.3. Bioaccumulative potential

#### Bioaccumulation

There is no data for this product.

#### Component Information

| Chemical name | Partition coefficient |
|---------------|-----------------------|
| ETHANOL       | -0.35                 |

### 12.4. Mobility in soil

#### Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

#### PBT and vPvB assessment

The product does not contain any substance(s) classified as PBT or vPvB.

| Chemical name                                                                               | PBT and vPvB assessment         |
|---------------------------------------------------------------------------------------------|---------------------------------|
| ETHANOL                                                                                     | The substance is not PBT / vPvB |
| REACTION PRODUCTS OF C18 (UNSATURATED) FATTY ACIDS AND DIMETHYL SULFATE AND TRIETHANOLAMINE | The substance is not PBT / vPvB |

### 12.6. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Waste from residues/unused products

Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

#### Contaminated packaging

Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

## SECTION 14: Transport information

#### IATA

##### 14.1 UN number or ID number

UN1993

##### 14.2 UN proper shipping name

FLAMMABLE LIQUID, N.O.S. (ETHANOL)

##### 14.3 Transport hazard class(es)

3

|                                   |     |
|-----------------------------------|-----|
| 14.4 Packing group                | III |
| 14.5 Environmental hazards        | No  |
| 14.6 Special precautions for user |     |
| Special Provisions                | A3  |
| ERG Code                          | 3L  |

**IMDG**

|                                                              |                                    |
|--------------------------------------------------------------|------------------------------------|
| 14.1 UN number or ID number                                  | UN1993                             |
| 14.2 UN proper shipping name                                 | FLAMMABLE LIQUID, N.O.S. (ETHANOL) |
| 14.3 Transport hazard class(es)                              | 3                                  |
| 14.4 Packing group                                           | III                                |
| 14.5 Environmental hazards                                   | No                                 |
| 14.6 Special precautions for user                            |                                    |
| Special Provisions                                           | 223, 274, 955                      |
| EmS-No                                                       | F-E, S-E                           |
| 14.7 Maritime transport in bulk according to IMO instruments | No information available           |

**RID**

|                                   |                                    |
|-----------------------------------|------------------------------------|
| 14.1 UN number or ID number       | UN1993                             |
| 14.2 UN proper shipping name      | FLAMMABLE LIQUID, N.O.S. (ETHANOL) |
| 14.3 Transport hazard class(es)   | 3                                  |
| 14.4 Packing group                | III                                |
| 14.5 Environmental hazards        | No                                 |
| 14.6 Special precautions for user |                                    |
| Special Provisions                | 274, 601                           |
| Classification code               | F1                                 |

**ADR**

|                                   |                                    |
|-----------------------------------|------------------------------------|
| 14.1 UN number or ID number       | UN1993                             |
| 14.2 UN proper shipping name      | FLAMMABLE LIQUID, N.O.S. (ETHANOL) |
| 14.3 Transport hazard class(es)   | 3                                  |
| 14.4 Packing group                | III                                |
| 14.5 Environmental hazards        | No                                 |
| 14.6 Special precautions for user |                                    |
| Special Provisions                | 274, 601                           |
| Classification code               | F1                                 |
| Tunnel restriction code           | (D/E)                              |

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations****Authorisations and/or restrictions on use:**

This product contains one or more substances subject to restriction (UK REACH - Annex XVII).

This product does not contain substances subject to authorisation (UK REACH - Annex XIV).

**Product restricted per REACH Annex XVII: 3**

| Chemical name     | Restricted substance per REACH Annex XVII | Substance subject to authorisation per REACH Annex XIV |
|-------------------|-------------------------------------------|--------------------------------------------------------|
| ETHANOL - 64-17-5 | 3, 40, 75                                 | -                                                      |

**Persistent Organic Pollutants**

Not applicable

**Export Notification requirements**

Not applicable

**Dangerous substance category per COMAH Regulations 2015 (as amended)**

P5c - FLAMMABLE LIQUIDS

**Named dangerous substances per COMAH Regulations 2015 (as amended)**

Not applicable

**The Ozone-Depleting Substances Regulations 2015**

Not applicable

**The Biocidal Products Regulations 2001 (as amended)**

| Chemical name     | The Biocidal Products Regulations 2001 (as amended)                                                                                                                   |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ETHANOL - 64-17-5 | Product-type 2: Disinfectants and algicides not intended for direct application to humans or animals Product-type 4: Food and feed area Product-type 1: Human hygiene |

**The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (as amended)**

Not applicable

**Poisons Act 1972 (Explosive Precursors) Regulations (as Amended)**

Not applicable

**International Inventories**

|                      |                                                  |
|----------------------|--------------------------------------------------|
| <b>TSCA</b>          | Contact supplier for inventory compliance status |
| <b>DSL/NDL</b>       | Contact supplier for inventory compliance status |
| <b>EINECS/ELINCS</b> | Contact supplier for inventory compliance status |
| <b>ENCS</b>          | Contact supplier for inventory compliance status |
| <b>IECSC</b>         | Contact supplier for inventory compliance status |
| <b>KECI</b>          | Contact supplier for inventory compliance status |
| <b>PICCS</b>         | Contact supplier for inventory compliance status |
| <b>AIIC</b>          | Contact supplier for inventory compliance status |
| <b>NZIoC</b>         | Contact supplier for inventory compliance status |

**Legend:**

|                      |                                                                                                    |
|----------------------|----------------------------------------------------------------------------------------------------|
| <b>TSCA</b>          | - United States Toxic Substances Control Act Section 8(b) Inventory                                |
| <b>DSL/NDL</b>       | - Canadian Domestic Substances List/Non-Domestic Substances List                                   |
| <b>EINECS/ELINCS</b> | - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances |
| <b>ENCS</b>          | - Japan Existing and New Chemical Substances                                                       |
| <b>IECSC</b>         | - China Inventory of Existing Chemical Substances                                                  |
| <b>KECL</b>          | - Korean Existing and Evaluated Chemical Substances                                                |
| <b>PICCS</b>         | - Philippines Inventory of Chemicals and Chemical Substances                                       |
| <b>AIIC</b>          | - Australian Inventory of Industrial Chemicals                                                     |
| <b>NZIoC</b>         | - New Zealand Inventory of Chemicals                                                               |

**15.2. Chemical safety assessment**

**Chemical Safety Report** This product contains substances for which Chemical Safety Assessments are still required.

**SECTION 16: Other information****Key or legend to abbreviations and acronyms used in the safety data sheet****Full text of H-Statements referred to under section 3**

H225 - Highly flammable liquid and vapour  
H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H412 - Harmful to aquatic life with long lasting effects

**Legend**

SVHC: Substances of Very High Concern for Authorisation:

**Legend Section 8: Exposure controls/personal protection**

|         |                             |      |                                  |
|---------|-----------------------------|------|----------------------------------|
| TWA     | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value         | *    | Skin designation                 |
| +       | Sensitisers                 |      |                                  |

Revision Note **SDS sections updated 1 16****Classification procedure**

| Classification according to Regulation (EC) No. 1272/2008 [CLP] | Method Used        |
|-----------------------------------------------------------------|--------------------|
| Acute oral toxicity                                             | Calculation method |
| Acute dermal toxicity                                           | Calculation method |
| Acute inhalation toxicity - gas                                 | Calculation method |
| Acute inhalation toxicity - vapour                              | Calculation method |
| Acute inhalation toxicity - dust/mist                           | Calculation method |
| Skin corrosion/irritation                                       | Calculation method |
| Serious eye damage/eye irritation                               | Calculation method |
| Respiratory sensitisation                                       | Calculation method |
| Skin sensitisation                                              | Calculation method |
| Mutagenicity                                                    | Calculation method |
| Carcinogenicity                                                 | Calculation method |
| Reproductive toxicity                                           | Calculation method |
| STOT - single exposure                                          | Calculation method |
| STOT - repeated exposure                                        | Calculation method |
| Acute aquatic toxicity                                          | Calculation method |
| Chronic aquatic toxicity                                        | Calculation method |
| Aspiration hazard                                               | Calculation method |
| Ozone                                                           | Calculation method |

**Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
 U.S. Environmental Protection Agency ChemView Database  
 European Food Safety Authority (EFSA)  
 European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC)  
 European Chemicals Agency (ECHA) (ECHA\_API)  
 Environmental Protection Agency  
 Acute Exposure Guideline Level(s) (AEGL(s))  
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
 U.S. Environmental Protection Agency High Production Volume Chemicals  
 Food Research Journal  
 Hazardous Substance Database  
 International Uniform Chemical Information Database (IUCLID)  
 National Institute of Technology and Evaluation (NITE)  
 Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
 NIOSH (National Institute for Occupational Safety and Health)  
 National Library of Medicine's ChemID Plus (NLM CIP)  
 National Library of Medicine's PubMed database (NLM PUBMED)  
 U.S. National Toxicology Program (NTP)  
 New Zealand's Chemical Classification and Information Database (CCID)  
 Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications  
 Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme  
 Organisation for Economic Co-operation and Development Screening Information Data Set  
 World Health Organization

Prepared By Lisa Bland

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This material safety data sheet complies with the requirements of UK REACH Regulations (SI 2019/758 as amended)  
Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

**End of Safety Data Sheet**