

# SAFETY DATA SHEET

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

Revision date 08/05/2025

Revision Number 1

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

### 1.1. Product identifier

Product Name Blizzard - Ashfield Direct Supplies

Pure substance/mixture Mixture

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

Recommended use Automotive Care

Uses advised against Use only for intended applications.

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

#### Supplier

Ashfield Direct Supplies  
Unit 4  
Phoenix Street  
Sutton in Ashfield  
Nottingham  
NG17 4HL  
bigtfr@googlemail.com  
01623 555075

### 1.4. Emergency telephone number

See number above Mon - Fri 9am - 5pm  
If you urgently need medical help or advice but it is not a life-threatening situation, call 111 free from any phone to speak to an NHS adviser. The 24-hour NHS 111 service can give you healthcare advice or direct you to the local service that can help you best.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### GB CLP (SI 2020/1567 as amended)

|                    |                     |
|--------------------|---------------------|
| Skin corrosion     | Category 1 - (H314) |
| Serious eye damage | Category 1 - (H318) |

### 2.2. Label elements

Contains Alcohols, C12-14, ethoxylated, sulfates, sodium salts; Alcohols, C9-11, ethoxylated; Decan-1-ol, ethoxylated; Tetrasodium Ethylene Diamine Tetraacetate; Sodium Hydroxide

Detergent Labelling: 5 - < 15% Anionic surfactants, 5 - < 15% Non-ionic surfactants, < 5% Amphoteric surfactants, < 5% EDTA and salts thereof

**Signal word**

Danger

**Hazard statements**

H314 - Causes severe skin burns and eye damage.

**Precautionary statements**

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P260 - Do not breathe vapours/spray.

P280 - Wear protective gloves/protective clothing and eye/face protection.

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.

P310 - Immediately call a POISON CENTER or doctor.

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable.

**Additional information**

This product requires child resistant fastenings if supplied to the general public. This product requires tactile warnings if supplied to the general public.

**2.3. Other hazards****Other hazards**

Harmful to aquatic life.

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

Not applicable

**3.2 Mixtures**

| Chemical name                                                | CAS No.    | 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) |
|--------------------------------------------------------------|------------|----------|---------------------|------------------------------|-----------------------------------------------------------------------|-------------------------------------------------|----------|----------------------|
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts        | 68891-38-3 | 5-10%    | 500-234-8           | -                            | Aquatic Chronic 3 (H412)<br>Eye Dam. 1 (H318)<br>Skin Irrit. 2 (H315) | Eye Irrit. 2 :: 5%≤C≤10%<br>Eye Dam. 1 :: C>10% | -        | -                    |
| Beta-alanine,N-(2-carboxyethyl)-,N-cocalkyl derivs.,disodium | 90170-43-7 | 1-5%     | 290-476-8           | -                            | Eye Irrit. 2 (H319)                                                   | -                                               | -        | -                    |

|                                           |            |      |           |                           |                                                                                     |                                                                                                                                         |   |   |
|-------------------------------------------|------------|------|-----------|---------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|---|---|
| salts                                     |            |      |           |                           |                                                                                     |                                                                                                                                         |   |   |
| Alcohols, C9-11, ethoxylated              | 68439-46-3 | 1-5% | 500-457-0 | -                         | Acute Tox. 4 (H302)<br>Eye Dam. 1 (H318)                                            | -                                                                                                                                       | - | - |
| Decan-1-ol, ethoxylated                   | 26183-52-8 | 1-5% | 500-046-6 | -                         | Acute Tox. 4 (H302)<br>Eye Dam. 1 (H318)                                            | -                                                                                                                                       | - | - |
| Tetrasodium Ethylene Diamine Tetraacetate | 64-02-8    | 1-5% | 200-573-9 | 01-21194867<br>62-27-XXXX | Acute Tox. 4 (H302)<br>Acute Tox. 3 (H332)<br>Eye Dam. 1 (H318)<br>STOT RE 2 (H373) | -                                                                                                                                       | - | - |
| Sodium Hydroxide                          | 1310-73-2  | 1-5% | 215-185-5 | -                         | Eye Dam. 1 (H318)<br>Met. Corr. 1 (H290)<br>Skin Corr. 1A (H314)                    | Eye Dam. 1 :: C>=2%<br>Eye Irrit. 2 :: 0.5%<=C<2%<br>Skin Corr. 1A :: C>=5%<br>Skin Corr. 1B :: 2%<=C<5%<br>Skin Irrit. 2 :: 0.5%<=C<2% | - | - |

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

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (UK REACH Article 59)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General advice</b> | Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Inhalation</b>     | Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical attention. |
| <b>Eye contact</b>    | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.                                                                                                                                                                                                               |
| <b>Skin contact</b>   | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical attention.                                                                                                                                                                                                                                                                                                                                  |
| <b>Ingestion</b>      | Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical attention.                                                                                                                                                                                                                                                                                                                                            |

**Self-protection of the first aider** Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Wear personal protective clothing (see section 8).

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

**Symptoms** Burning sensation.

**Effects of Exposure** No information available.

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

**Note to doctors** Product is a corrosive material. Use of gastric lavage or emesis is contra-indicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure.

### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**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** The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapours.

#### **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**

**Personal precautions** Attention! Corrosive material. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

**Other information** Refer to protective measures listed in Sections 7 and 8.

**For emergency responders** Use personal protection recommended in Section 8.

#### **6.2. Environmental precautions**

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.

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

|                                        |                                                                                      |
|----------------------------------------|--------------------------------------------------------------------------------------|
| <b>Methods for containment</b>         | Prevent further leakage or spillage if safe to do so.                                |
| <b>Methods for cleaning up</b>         | Take up mechanically, placing in appropriate containers for disposal.                |
| <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>        | Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse.                                                             |
| <b>General hygiene considerations</b> | Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. |

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

|                           |                                                                                                                                                                                      |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage Conditions</b> | Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Store locked up. Keep out of the reach of children. Store away from other materials. |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**7.3. Specific end use(s)**

|                                      |                                                                  |
|--------------------------------------|------------------------------------------------------------------|
| <b>Risk Management Methods (RMM)</b> | 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            |
|-------------------------------|---------------------------|
| Sodium Hydroxide<br>1310-73-2 | STEL: 2 mg/m <sup>3</sup> |

|                                                |                                                                                                                                                  |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Biological occupational exposure limits</b> | 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** No information available

| Chemical name                                         | Oral | Dermal                                                      | Inhalation                    |
|-------------------------------------------------------|------|-------------------------------------------------------------|-------------------------------|
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts |      | 2750 mg/kg bw/day [4] [6]<br>132 µg/cm <sup>2</sup> [5] [6] | 175 mg/m <sup>3</sup> [4] [6] |

| Chemical name                                                                          | Oral | Dermal                    | Inhalation                    |
|----------------------------------------------------------------------------------------|------|---------------------------|-------------------------------|
| 68891-38-3                                                                             |      |                           |                               |
| Beta-alanine,N-(2-carboxyethyl)-,N-co<br>co alkyl derivs.,disodium salts<br>90170-43-7 |      | 2.67 mg/kg bw/day [4] [6] | 980 mg/m <sup>3</sup> [4] [6] |
| Alcohols, C9-11, ethoxylated<br>68439-46-3                                             |      | 2080 mg/kg bw/day [4] [6] | 294 mg/m <sup>3</sup> [4] [6] |
| Decan-1-ol, ethoxylated<br>26183-52-8                                                  |      | 2080 mg/kg bw/day [4] [6] | 294 mg/m <sup>3</sup> [4] [6] |
| Tetrasodium Ethylene Diamine<br>Tetraacetate<br>64-02-8                                |      |                           | 1.5 mg/m <sup>3</sup> [4] [6] |
| Sodium Hydroxide<br>1310-73-2                                                          |      |                           | 1 mg/m <sup>3</sup> [5] [6]   |

**Derived No Effect Level (DNEL) - General Public** No information available.

| Chemical name                                                          | Oral                         | Dermal                        | Inhalation                    |
|------------------------------------------------------------------------|------------------------------|-------------------------------|-------------------------------|
| Alcohols, C12-14, ethoxylated,<br>sulfates, sodium salts<br>68891-38-3 | 15 mg/kg bw/day [4] [6]      | 79 µg/cm <sup>2</sup> [5] [6] | 52 mg/m <sup>3</sup> [4] [6]  |
| Alcohols, C9-11, ethoxylated<br>68439-46-3                             | 25 mg/kg bw/day [4] [6]      |                               | 87 mg/m <sup>3</sup> [4] [6]  |
| Decan-1-ol, ethoxylated<br>26183-52-8                                  | 25 mg/kg bw/day [4] [6]      |                               | 87 mg/m <sup>3</sup> [4] [6]  |
| Tetrasodium Ethylene Diamine<br>Tetraacetate<br>64-02-8                | 25 mg/m <sup>3</sup> [4] [6] |                               | 1.2 mg/m <sup>3</sup> [4] [6] |
| Sodium Hydroxide<br>1310-73-2                                          |                              | 2 mg/kg/day [5] [6]           | 1 mg/m <sup>3</sup> [5] [6]   |

**Predicted No Effect Concentration (PNEC)** No information available.

| Chemical name                                                                             | Freshwater   | Freshwater<br>(intermittent release) | Marine water | Marine water<br>(intermittent release) | Air |
|-------------------------------------------------------------------------------------------|--------------|--------------------------------------|--------------|----------------------------------------|-----|
| Alcohols, C12-14,<br>ethoxylated, sulfates,<br>sodium salts<br>68891-38-3                 | 0.24 mg/L    | 0.071 mg/L                           | 0.024 mg/L   |                                        |     |
| Beta-alanine,N-(2-carboxy<br>ethyl)-,N-coco alkyl<br>derivs.,disodium salts<br>90170-43-7 | 0.1 mg/L     | 0.1 mg/L                             | 0.01 mg/L    |                                        |     |
| Alcohols, C9-11,<br>ethoxylated<br>68439-46-3                                             | 0.10379 mg/L | 0.014 mg/L                           | 0.10379 mg/L |                                        |     |
| Decan-1-ol, ethoxylated<br>26183-52-8                                                     | 0.292 mg/L   | 0.0039 mg/L                          | 0.0292 mg/L  |                                        |     |
| Tetrasodium Ethylene<br>Diamine Tetraacetate<br>64-02-8                                   | 2.2mg/L      | 1.2 mg/l                             | 0.22 mg/l    | 1.2 mg/l                               |     |

| Chemical name                                                                       | Freshwater sediment      | Marine sediment          | Sewage treatment | Soil              | Food chain |
|-------------------------------------------------------------------------------------|--------------------------|--------------------------|------------------|-------------------|------------|
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts<br>68891-38-3                 | 0.9168 mg/kg sediment dw | 0.0917 mg/kg sediment dw | 10 g/L           | 7.5 mg/kg soil dw |            |
| Beta-alanine,N-(2-carboxy ethyl)-,N-coco alkyl derivs.,disodium salts<br>90170-43-7 |                          |                          | 0.3 mg/L         |                   |            |
| Alcohols, C9-11, ethoxylated<br>68439-46-3                                          | 13.7 mg/kg sediment dw   | 13.7 mg/kg sediment dw   | 1.4 mg/L         | 1 mg/kg soil dw   |            |
| Decan-1-ol, ethoxylated<br>26183-52-8                                               | 31.92 mg/kg sediment dw  | 3.19 mg/kg sediment dw   | 1.4 mg/L         | 1 mg/kg soil dw   |            |
| Tetrasodium Ethylene Diamine Tetraacetate<br>64-02-8                                |                          |                          |                  | 0.72mg/kg         |            |

## 8.2. Exposure controls

### Engineering controls

Showers  
Eyewash stations  
Ventilation systems.

### Personal protective equipment

#### Eye/face protection

Tight sealing safety goggles. Face protection shield. Eye protection must conform to standard EN 166.

#### Hand protection

Wear suitable gloves. Impervious gloves. Gloves must conform to standard EN 374.

#### Skin and body protection

Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

#### Respiratory protection

Appropriate respiratory protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

## SECTION 9: Physical and chemical properties

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

|                 |                          |
|-----------------|--------------------------|
| Physical state  | Liquid                   |
| Colour          | red                      |
| Odour           | Characteristic           |
| Odour threshold | No information available |

| Property                                | Values            | Remarks • Method |
|-----------------------------------------|-------------------|------------------|
| pH                                      | 13 - 14           | None known       |
| pH (as aqueous solution)                | No data available | None known       |
| Melting point / freezing point          | No data available | None known       |
| Initial boiling point and boiling range | No data available | None known       |
| Flash point                             | No data available | None known       |

|                                        |                   |            |
|----------------------------------------|-------------------|------------|
| Evaporation rate                       | No data available | None known |
| Flammability                           | No data available | None known |
| Flammability Limit in Air              |                   | None known |
| Upper flammability or explosive limits | No data available |            |
| Lower flammability or explosive limits | No data available |            |
| Vapour pressure                        | No data available | None known |
| Relative vapour density                | No data available | None known |
| Relative density                       | ~1                | None known |
| Bulk density                           | No data available |            |
| Liquid Density                         | No data available |            |
| Solubility(ies)                        | Soluble in water  | None known |
| Water solubility                       | Soluble in water  | None known |
| Partition coefficient                  | No data available | None known |
| Autoignition temperature               | No data available | None known |
| Decomposition temperature              |                   | None known |
| SADT (°C)                              | No data available | None known |
| Kinematic viscosity                    | No data available | None known |
| Dynamic viscosity                      | No data available | None known |
| Particle characteristics               |                   |            |
| Particle Size                          | No data available |            |
| Particle Size Distribution             | No data available |            |
| Explosive properties                   | No data available |            |
| Oxidising properties                   | No data available |            |

**9.2. Other information**

VOC content No data available

**Information with regards to physical hazard classes**

Explosives Not applicable

**SECTION 10: Stability and reactivity****10.1. Reactivity**

Reactivity No information available.

**10.2. Chemical stability**

Stability Stable under normal conditions.

**Explosion data**

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

**10.3. Possibility of hazardous reactions**

Possibility of hazardous reactions None under normal processing.

**10.4. Conditions to avoid**

Conditions to avoid Exposure to air or moisture over prolonged periods.

**10.5. Incompatible materials**

Incompatible materials Acids. Bases. Oxidising agent.

**10.6. Hazardous decomposition products**

**Hazardous decomposition products** None known based on information supplied.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Information on likely routes of exposure

#### Product Information

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>   | Specific test data for the substance or mixture is not available. Corrosive by inhalation. (based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal.                                   |
| <b>Eye contact</b>  | Specific test data for the substance or mixture is not available. Causes serious eye damage. (based on components). Corrosive to the eyes and may cause severe damage including blindness. May cause irreversible damage to eyes.                                                                                                                                                                                                                                                                                         |
| <b>Skin contact</b> | Specific test data for the substance or mixture is not available. Corrosive. (based on components). Causes burns.                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Ingestion</b>    | Specific test data for the substance or mixture is not available. Causes burns. (based on components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways. |

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

**Symptoms** Redness. Burning. May cause blindness. Coughing and/ or wheezing.

**Acute toxicity** Based on available data, the classification criteria are not met.

#### Numerical measures of toxicity

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

|                               |                 |
|-------------------------------|-----------------|
| ATEmix (oral)                 | 5,165.50 mg/kg  |
| ATEmix (dermal)               | 90,289.40 mg/kg |
| ATEmix (inhalation-gas)       | 147,858.00 ppm  |
| ATEmix (inhalation-vapour)    | 361.40 mg/l     |
| ATEmix (inhalation-dust/mist) | 49.30 mg/l      |

#### Component Information

| Chemical name                                         | Oral LD50                      | Dermal LD50                    | Inhalation LC50                        |
|-------------------------------------------------------|--------------------------------|--------------------------------|----------------------------------------|
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts | -                              | > 2000 mg/kg ( Rat )           | -                                      |
| Alcohols, C9-11, ethoxylated                          | = 1400 mg/kg ( Rat )           | -                              | -                                      |
| Decan-1-ol, ethoxylated                               | = 1400 mg/kg ( Rat )           | -                              | -                                      |
| Tetrasodium Ethylene Diamine Tetraacetate             | LD50 rat (Oral): > 2,000 mg/kg | LD50 rat (Oral): > 5,000 mg/kg | LC50 rat (by inhalation): > 1 mg/l 5 d |
| Sodium Hydroxide                                      | = 325 mg/kg ( Rat )            | = 1350 mg/kg ( Konijn )        | -                                      |

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

|                                          |                                                                                                  |
|------------------------------------------|--------------------------------------------------------------------------------------------------|
| <b>Skin corrosion/irritation</b>         | Classification based on data available for ingredients. Causes severe skin burns and eye damage. |
| <b>Serious eye damage/eye irritation</b> | Classification based on data available for ingredients. Causes serious eye damage. Causes burns. |
| <b>Respiratory or skin sensitisation</b> | Based on available data, the classification criteria are not met.                                |
| <b>Germ cell mutagenicity</b>            | Based on available data, the classification criteria are not met.                                |
| <b>Carcinogenicity</b>                   | Based on available data, the classification criteria are not met.                                |
| <b>Reproductive toxicity</b>             | Based on available data, the classification criteria are not met.                                |
| <b>STOT - single exposure</b>            | Based on available data, the classification criteria are not met.                                |
| <b>STOT - repeated exposure</b>          | Based on available data, the classification criteria are not met.                                |
| <b>Aspiration hazard</b>                 | Based on available data, the classification criteria are not met.                                |
| <b>Other adverse effects</b>             | No information available.                                                                        |

**SECTION 12: Ecological information****12.1. Toxicity**

**Ecotoxicity** Harmful to aquatic life.

| Chemical name                             | Algae/aquatic plants   | Fish                                               | Toxicity to microorganisms | Crustacea                                    |
|-------------------------------------------|------------------------|----------------------------------------------------|----------------------------|----------------------------------------------|
| Tetrasodium Ethylene Diamine Tetraacetate | EC50 (48 h) > 100 mg/l | LC50 (96 h) > 100 mg/l, <i>Lepomis macrochirus</i> | -                          | EC50 (48 h) > 500 mg/l, <i>Daphnia magna</i> |
| Sodium Hydroxide                          | -                      | LC50: =45.4mg/L (96h, <i>Oncorhynchus mykiss</i> ) | -                          | 156 mg/l, (46h <i>Daphnia magna</i> )        |

**12.2. Persistence and degradability**

**Persistence and degradability** No information available.

**12.3. Bioaccumulative potential****Bioaccumulation****Component Information**

| Chemical name                                         | Partition coefficient |
|-------------------------------------------------------|-----------------------|
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts | 0.3                   |

**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 above the threshold of declaration.

| Chemical name                                                        | PBT and vPvB assessment         |
|----------------------------------------------------------------------|---------------------------------|
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts                | The substance is not PBT / vPvB |
| Beta-alanine,N-(2-carboxyethyl)-,N-coco alkyl derivs.,disodium salts | The substance is not PBT / vPvB |
| Alcohols, C9-11, ethoxylated                                         | The substance is not PBT / vPvB |
| Decan-1-ol, ethoxylated                                              | The substance is not PBT / vPvB |
| Tetrasodium Ethylene Diamine Tetraacetate                            | The substance is not PBT / vPvB |
| Sodium Hydroxide                                                     | 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 Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

**SECTION 14: Transport information****IATA**

14.1 UN number or ID number UN1760  
 14.2 UN proper shipping name Corrosive liquid, n.o.s. Contains Sodium Hydroxide  
 14.3 Transport hazard class(es) 8  
 14.4 Packing group III  
 Description UN1760, Corrosive liquid, n.o.s. Contains Sodium Hydroxide, 8, III  
 14.5 Environmental hazards Not applicable  
 14.6 Special precautions for user  
 Special Provisions A3, A803  
 ERG Code 8L

**IMDG**

14.1 UN number or ID number UN1760  
 14.2 UN proper shipping name Corrosive liquid, n.o.s. Contains Sodium Hydroxide  
 14.3 Transport hazard class(es) 8  
 14.4 Packing group III  
 Description UN1760, Corrosive liquid, n.o.s. Contains Sodium Hydroxide, 8, III  
 14.5 Environmental hazards Not applicable  
 14.6 Special precautions for user  
 Special Provisions 274, 223 F-A S-B  
 14.7 Maritime transport in bulk according to IMO instruments No information available

**RID**

|                                          |                                                                    |
|------------------------------------------|--------------------------------------------------------------------|
| <b>14.1 UN number or ID number</b>       | UN1760                                                             |
| <b>14.2 UN proper shipping name</b>      | Corrosive liquid, n.o.s. Contains Sodium Hydroxide                 |
| <b>14.3 Transport hazard class(es)</b>   | 8                                                                  |
| <b>14.4 Packing group</b>                | III                                                                |
| <b>Description</b>                       | UN1760, Corrosive liquid, n.o.s. Contains Sodium Hydroxide, 8, III |
| <b>14.5 Environmental hazards</b>        | Not applicable                                                     |
| <b>14.6 Special precautions for user</b> |                                                                    |
| <b>Special Provisions</b>                | 274                                                                |
| <b>Classification code</b>               | C9                                                                 |

**ADR**

|                                          |                                                                         |
|------------------------------------------|-------------------------------------------------------------------------|
| <b>14.1 UN number or ID number</b>       | UN1760                                                                  |
| <b>14.2 UN proper shipping name</b>      | Corrosive liquid, n.o.s. Contains Sodium Hydroxide                      |
| <b>14.3 Transport hazard class(es)</b>   | 8                                                                       |
| <b>14.4 Packing group</b>                | III                                                                     |
| <b>Description</b>                       | UN1760, Corrosive liquid, n.o.s. Contains Sodium Hydroxide, 8, III, (E) |
| <b>14.5 Environmental hazards</b>        | Not applicable                                                          |
| <b>14.6 Special precautions for user</b> |                                                                         |
| <b>Special Provisions</b>                | 274                                                                     |
| <b>Classification code</b>               | C9                                                                      |
| <b>Tunnel restriction code</b>           | (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 does not contain substances subject to authorisation (UK REACH - Annex XIV). This product does not contain substances subject to restriction (UK REACH - Annex XVII).

**Persistent Organic Pollutants**

Not applicable

**Export Notification requirements**

Not applicable

**Named dangerous substances per COMAH (SI 2015/483 as amended)**

Not applicable

**The Ozone-Depleting Substances Regulations 2015**

Not applicable

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

Not applicable

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

Not applicable

**Poisons and Explosive Precursors**

| Chemical name    | Poisons and Explosive Precursors                          |
|------------------|-----------------------------------------------------------|
| Sodium Hydroxide | Gif, rapporteerbaar 12% van de totale bijtende alkaliteit |

**International Inventories**

|               |                                                  |
|---------------|--------------------------------------------------|
| TSCA          | Contact supplier for inventory compliance status |
| DSL/NDL       | Contact supplier for inventory compliance status |
| EINECS/ELINCS | Contact supplier for inventory compliance status |
| ENCS          | Contact supplier for inventory compliance status |
| IECSC         | Contact supplier for inventory compliance status |
| KECL          | Contact supplier for inventory compliance status |
| PICCS         | Contact supplier for inventory compliance status |
| AIIC          | Contact supplier for inventory compliance status |
| NZIoC         | Contact supplier for inventory compliance status |
| TCSI          | Contact supplier for inventory compliance status |

**Legend:**

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

**15.2. Chemical safety assessment**

**Chemical Safety Report** No information available

**SECTION 16: Other information****Key or legend to abbreviations and acronyms used in the safety data sheet****Full text of any hazard and/or precautionary statements referred to under Sections 2-15**

H225 - Highly flammable liquid and vapour  
H290 - May be corrosive to metals  
H302 - Harmful if swallowed  
H314 - Causes severe skin burns and eye damage  
H315 - Causes skin irritation  
H318 - Causes serious eye damage  
H319 - Causes serious eye irritation  
H332 - Harmful if inhaled  
H336 - May cause drowsiness or dizziness  
H373 - May cause damage to organs through prolonged or repeated exposure  
H400 - Very toxic to aquatic life  
H412 - Harmful to aquatic life with long lasting effects  
P260 - Do not breathe dust, fume, gas, mist, vapors and spray  
P264 - Wash face, hands and any exposed skin thoroughly after handling  
P280 - Wear protective gloves, protective clothing, eye protection and face protection  
P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting  
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower  
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P310 - Immediately call a POISON CENTER or doctor  
P321 - Specific treatment (see supplemental first aid instructions on this label)  
P363 - Wash contaminated clothing before reuse  
P405 - Store locked up  
P501 - Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable

**Legend**

|           |                                                                                                         |
|-----------|---------------------------------------------------------------------------------------------------------|
| ACGIH     | American Conference of Governmental Industrial Hygienists                                               |
| ADN       | Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Europe)         |
| ADR       | Agreement concerning the International Carriage of Dangerous Goods by Road (Europe)                     |
| AiIC      | Australian Inventory of Industrial Chemicals                                                            |
| ATE       | Acute Toxicity Estimate                                                                                 |
| ASTM      | American Society for the Testing of Materials                                                           |
| bar       | Biological Reference Values for Chemical Compounds in the Work Area                                     |
| BAT       | Biological tolerance values for occupational exposure                                                   |
| BEL       | Biological exposure limits                                                                              |
| bw        | Body weight                                                                                             |
| Ceiling   | Maximum limit value                                                                                     |
| CLP       | Classification, Labelling and Packaging Regulation; Regulation (EC) No 1272/2008                        |
| CMR       | Carcinogen, Mutagen or Reproductive Toxicant                                                            |
| DOT       | Department of Transportation (United States)                                                            |
| DSL       | Domestic Substances List (Canada)                                                                       |
| EC Number | European Community number                                                                               |
| EmS       | Emergency Schedule                                                                                      |
| ENCS      | Existing and New Chemical Substances (Japan)                                                            |
| EPA       | Environmental Protection Agency                                                                         |
| GHS       | Globally Harmonized System                                                                              |
| IARC      | International Agency for Research on Cancer                                                             |
| IATA      | International Air Transport Association                                                                 |
| IBC       | International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk     |
| ICAO      | International Civil Aviation Organisation                                                               |
| IECSC     | Inventory of Existing Chemical Substances in China                                                      |
| IMDG      | International Maritime Dangerous Goods                                                                  |
| IMO       | International Maritime Organization                                                                     |
| ISO       | International Organisation for Standardisation                                                          |
| KECI      | Korean Existing Chemicals Inventory                                                                     |
| LC50      | Lethal Concentration to 50% of a test population                                                        |
| LD50      | Lethal Dose to 50% of a test population (Median Lethal Dose)                                            |
| MARPOL    | International Convention for the Prevention of Pollution from Ships                                     |
| n.o.s.    | Not Otherwise Specified                                                                                 |
| NOAEC     | No Observed Adverse Effect Concentration                                                                |
| NOAEL     | No Observed Adverse Effect Level                                                                        |
| NOELR     | No Observable Effect Loading Rate                                                                       |
| NZIoC     | New Zealand Inventory of Chemicals                                                                      |
| OECD      | Organization for Economic Cooperation and Development                                                   |
| OEL       | Occupational exposure limits                                                                            |
| PBT       | Persistent, Bioaccumulative and Toxic substance                                                         |
| PICCS     | Philippines Inventory of Chemicals and Chemical Substances                                              |
| PMT       | Persistent, Mobile and Toxic                                                                            |
| PPE       | Personal protective equipment                                                                           |
| QSAR      | Quantitative Structure Activity Relationship                                                            |
| REACH     | Registration, Evaluation, Authorisation, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006) |
| RID       | Agreement concerning the International Carriage of Dangerous Goods by Rail (Europe)                     |
| SADT      | Self-Accelerating Decomposition Temperature                                                             |
| SAR       | Structure-activity relationship                                                                         |
| SDS       | Safety Data Sheet                                                                                       |
| SL        | Surface Limit                                                                                           |
| STEL      | Short Term Exposure Limit                                                                               |
| STOT RE   | Specific target organ toxicity - Repeated exposure                                                      |

|         |                                                  |
|---------|--------------------------------------------------|
| STOT SE | Specific target organ toxicity - Single exposure |
| SVHC    | Substance of very high concern                   |
| TCSI    | Taiwan Chemical Substance Inventory              |
| TDG     | Transport of Dangerous Goods (Canada)            |
| TSCA    | Toxic Substances Control Act (United States)     |
| TWA     | Time-Weighted Average                            |
| UN      | United Nations                                   |
| VOC     | Volatile organic compounds                       |
| vPvB    | Very Persistent and Very Bioaccumulative         |
| vPvM    | Very Persistent and Very Mobile                  |
| Sen+    | Sensitiser                                       |
| Sk*     | Skin designation                                 |
| **      | Hazard Designation                               |

#### 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 |
| Chronic aquatic toxicity                                        | Calculation method |
| Acute 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

Revision date

08/05/2025

This SDS 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**