

# SAFETY DATA SHEET

Date of issue/Date of revision

: 1 November 2022

Version

: 3.03



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

### 1.1 Product identifier

**Product name** : DYRUP KOMPOSIT RENS

**Product code** : 10120DSC3120

**Other means of identification**

00363872

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

**Product use** : Consumer applications, Professional applications, Application by non spray methods..

**Use of the substance/  
mixture** : Cleaner.

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

PPG Coatings Nederland B.V.  
Amsterdamseweg 14  
1422 AD Uithoorn  
Netherlands  
+31 (0)297 541234  
Fax: +31 (0)297 541806

**e-mail address of person  
responsible for this SDS** : Product.Stewardship.EMEA@ppg.com

#### National contact

PPG Coatings Denmark A/S  
Gladsaxevej 300  
2860 Søborg  
+45 (0)56 64 50 00  
+45 (0)56 64 50 55

### 1.4 Emergency telephone number

#### National advisory body/Poison Centre

**Telephone number** : Poison Information Centre; emergency telephone, public + 45 82 12 12 12 (health sector +45 35 31 55 55)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

**Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

Eye Dam. 1, H318

Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

|                            |   |
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## SECTION 2: Hazards identification

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

**Hazard pictograms** :



**Signal word** : Danger

**Hazard statements** : Causes serious eye damage.  
Harmful to aquatic life with long lasting effects.

#### Precautionary statements

**General** : Keep out of reach of children. If medical advice is needed, have product container or label at hand.

**Prevention** : Wear eye or face protection. Avoid release to the environment.

**Response** : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

**Storage** : Not applicable.

**Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.

P102, P101, P280, P273, P305 + P351 + P338, P310, P501

**Hazardous ingredients** Amides, C8-18 and C18-unsatd., N,N-bis(hydroxyethyl)

**Supplemental label elements** : Not applicable.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

#### Special packaging requirements

**Containers to be fitted with child-resistant fastenings** : Not applicable.

**Tactile warning of danger** : Not applicable.

### 2.3 Other hazards

**Product meets the criteria for PBT or vPvB** : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**Other hazards which do not result in classification** : None known.

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## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures : Mixture

| Product/ingredient name                               | Identifiers   | % by weight | Classification  | Specific Conc. Limits, M-factors and ATEs                     | Type    |
|---|---|-------------|---|---|---------|
| 2-(2-butoxyethoxy)ethanol                             | REACH #:<br>01-2119475104-44<br>EC: 203-961-6<br>CAS: 112-34-5<br>Index: 603-096-00-8 | ≥1.0 - ≤5.0 | Eye Irrit. 2, H319  | -   | [1] [2] |
| Amides, C8-18 and C18-unsatd., N,N-bis (hydroxyethyl) | EC: 268-935-9<br>CAS: 68155-07-7  | ≥1.0 - <5.0 | Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Aquatic Chronic 2, H411  | -   | [1]     |
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts | REACH #:<br>01-2119488639-16<br>EC: 500-234-8<br>CAS: 68891-38-3                      | ≥1.0 - <5.0 | Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Aquatic Chronic 3, H412<br><br><b>See Section 16 for the full text of the H statements declared above.</b> | Eye Dam. 1, H318: C ≥ 10%<br>Eye Irrit. 2, H319: 5% ≤ C < 10% | [1]     |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

#### Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

SUB codes represent substances without registered CAS Numbers.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
- Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
- Ingestion** : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

#### Potential acute health effects

- Eye contact** : Causes serious eye damage.

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## SECTION 4: First aid measures

- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur
- Ingestion** : Adverse symptoms may include the following:  
stomach pains

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

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

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

- Hazards from the substance or mixture** : In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous combustion products** : Decomposition products may include the following materials:  
carbon oxides  
nitrogen oxides  
sulfur oxides  
metal oxide/oxides

### 5.3 Advice for firefighters

- Special precautions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

### 6.2 Environmental precautions

- : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

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

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

### 6.4 Reference to other sections

- : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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SECTION 7: Handling and storage

**7.2 Conditions for safe storage, including any incompatibilities** : Store between the following temperatures: 0 to 5°C (32 to 41°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

**7.3 Specific end use(s)**  
See Section 1.2 for Identified uses.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits

| Product/ingredient name   | Exposure limit values   |
|---------------------------|---|
| 2-(2-butoxyethoxy)ethanol | <b>Working Environment Authority (Denmark, 6/2021).</b><br>TWA: 68 mg/m³ 8 hours.<br>TWA: 10 ppm 8 hours. |

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs

| Product/ingredient name   | Type | Exposure              | Value             | Population         | Effects  |
|---------------------------|------|-----------------------|-------------------|--------------------|----------|
| 2-(2-butoxyethoxy)ethanol | DNEL | Long term Oral        | 5 mg/kg bw/day    | General population | Systemic |
|                           | DNEL | Long term Inhalation  | 40.5 mg/m³        | General population | Local    |
|                           | DNEL | Long term Inhalation  | 40.5 mg/m³        | General population | Systemic |
|                           | DNEL | Long term Dermal      | 50 mg/kg bw/day   | General population | Systemic |
|                           | DNEL | Short term Inhalation | 60.7 mg/m³        | General population | Local    |
|                           | DNEL | Long term Inhalation  | 67.5 mg/m³        | Workers            | Local    |
|                           | DNEL | Long term Inhalation  | 67.5 mg/m³        | Workers            | Systemic |
|                           | DNEL | Long term Dermal      | 83 mg/kg bw/day   | Workers            | Systemic |
|                           | DNEL | Short term Inhalation | 101.2 mg/m³       | Workers            | Local    |
|                           | DNEL | Long term Dermal      | 2.5 mg/kg bw/day  | General population | Systemic |
|                           | DNEL | Long term Dermal      | 4.16 mg/kg bw/day | Workers            | Systemic |
|                           | DNEL | Long term Oral        | 6.25 mg/kg bw/day | General population | Systemic |
|                           | DNEL | Long term Inhalation  | 21.73 mg/m³       | General population | Systemic |
|                           | DNEL | Long term Inhalation  | 73.4 mg/m³        | Workers            | Systemic |

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## SECTION 8: Exposure controls/personal protection

|   |      |                      |                           |                    |          |
|---|------|----------------------|---------------------------|--------------------|----------|
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts | DNEL | Long term Dermal     | 0.0562 mg/cm <sup>2</sup> | General population | Local    |
|   | DNEL | Long term Dermal     | 0.0936 mg/cm <sup>2</sup> | Workers            | Local    |
|   | DNEL | Long term Oral       | 15 mg/kg bw/day           | General population | Systemic |
|   | DNEL | Long term Inhalation | 52 mg/m <sup>3</sup>      | General population | Systemic |
|   | DNEL | Long term Inhalation | 175 mg/m <sup>3</sup>     | Workers            | Systemic |
|   | DNEL | Long term Dermal     | 1650 mg/kg bw/day         | General population | Systemic |
|   | DNEL | Long term Dermal     | 2750 mg/kg bw/day         | Workers            | Systemic |
|   | DNEL | Long term Dermal     | 0.079 mg/cm <sup>2</sup>  | General population | Local    |
|   | DNEL | Long term Dermal     | 0.132 mg/cm <sup>2</sup>  | Workers            | Local    |
|   | DNEL | Long term Dermal     | 0.132 mg/cm <sup>2</sup>  | Workers            | Local    |

### PNECs

| Product/ingredient name   | Type | Compartment Detail     | Value          | Method Detail            |
|---------------------------|------|------------------------|----------------|--------------------------|
| 2-(2-butoxyethoxy)ethanol | -    | Fresh water            | 1.1 mg/l       | Assessment Factors       |
|                           | -    | Marine water           | 0.11 mg/l      | Assessment Factors       |
|                           | -    | Sewage Treatment Plant | 200 mg/l       | Assessment Factors       |
|                           | -    | Fresh water sediment   | 4.4 mg/kg dwt  | Equilibrium Partitioning |
|                           | -    | Marine water sediment  | 0.44 mg/kg dwt | Equilibrium Partitioning |
|                           | -    | Soil                   | 0.32 mg/kg dwt | Equilibrium Partitioning |

## 8.2 Exposure controls

**Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Chemical splash goggles and face shield. Use eye protection according to EN 166.

### Skin protection

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

**Gloves** : For prolonged or repeated handling, use the following type of gloves:

Recommended: butyl rubber

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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SECTION 8: Exposure controls/personal protection

|                                 |  |
|---------------------------------|--|
| Other skin protection           | Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.  |
| Respiratory protection          | : Use with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Wear a respirator conforming to EN140. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Mask type: full-face mask half-face mask Filter type: organic vapour filter (Type A) particulate filter P3 Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. |
| Environmental exposure controls | : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.   |

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

Physical state

Colour

Odour

Odour threshold

Melting point/freezing point

Initial boiling point and boiling range

Flammability

Upper/lower flammability or explosive limits

Flash point

Auto-ignition temperature

Decomposition temperature

pH

Viscosity

Solubility(ies)

Partition coefficient: n-octanol/ water

Vapour pressure

: Liquid.

: Clear.

: Characteristic.

: Not available.

: May start to solidify at the following temperature: 0°C (32°F) This is based on data for the following ingredient: water. Weighted average: -2.46°C (27.6°F)

: >37.78°C

: Not available.

: Not applicable.

: Closed cup: Not applicable. [Product does not sustain combustion.]

:

: Stable under recommended storage and handling conditions (see Section 7).

: 10

: Kinematic (40°C): <14 mm²/s

:

: Not applicable.

:

| Ingredient name           | °C  | °F  | Method    |
|---------------------------|-----|-----|-----------|
| 2-(2-butoxyethoxy)ethanol | 210 | 410 | DIN 51794 |

| Media      | Result            |
|------------|-------------------|
| cold water | Partially soluble |

|                     |                |                                |                   |
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SECTION 9: Physical and chemical properties

| Ingredient name | Vapour Pressure at 20°C |     |        | Vapour pressure at 50°C |     |        |
|-----------------|-------------------------|-----|--------|-------------------------|-----|--------|
|                 | mm Hg                   | kPa | Method | mm Hg                   | kPa | Method |
| water           | 23.8                    | 3.2 |        |                         |     |        |

|                            |   |
|----------------------------|---|
| Evaporation rate           | : 0.003 (2-(2-butoxyethoxy)ethanol) compared with butyl acetate   |
| Relative density           | : 1.01  |
| Vapour density             | : Highest known value: 5.6 (Air = 1) (2-(2-butoxyethoxy)ethanol). |
| Explosive properties       | : Not available.  |
| Oxidising properties       | : Product does not present an oxidizing hazard.                   |
| Particle characteristics   |   |
| Median particle size       | : Not applicable.   |
| 9.2 Other information      |   |
| No additional information. |   |

SECTION 10: Stability and reactivity

|   |  |
|---|--|
| 10.1 Reactivity                         | : No specific test data related to reactivity available for this product or its ingredients.   |
| 10.2 Chemical stability                 | : The product is stable.   |
| 10.3 Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur.  |
| 10.4 Conditions to avoid                | : When exposed to high temperatures may produce hazardous decomposition products.<br>Refer to protective measures listed in sections 7 and 8.            |
| 10.5 Incompatible materials             | : Keep away from the following materials to prevent strong exothermic reactions:<br>oxidising agents, strong alkalis, strong acids.                      |
| 10.6 Hazardous decomposition products   | : Depending on conditions, decomposition products may include the following materials:<br>carbon oxides nitrogen oxides sulfur oxides metal oxide/oxides |

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

| Product/ingredient name                               | Result      | Species | Dose        | Exposure |
|---|-------------|---------|-------------|----------|
| 2-(2-butoxyethoxy)ethanol                             | LD50 Dermal | Rabbit  | 2700 mg/kg  | -        |
|   | LD50 Oral   | Rat     | 4500 mg/kg  | -        |
| Amides, C8-18 and C18-unsatd., N,N-bis (hydroxyethyl) | LD50 Dermal | Rabbit  | >2000 mg/kg | -        |
|   | LD50 Oral   | Rat     | >2000 mg/kg | -        |

Conclusion/Summary : There are no data available on the mixture itself.

Irritation/Corrosion

Conclusion/Summary

Skin : There are no data available on the mixture itself.

Eyes : There are no data available on the mixture itself.

|                            |   |
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## SECTION 11: Toxicological information

**Respiratory** : There are no data available on the mixture itself.

### Sensitisation

#### **Conclusion/Summary**

**Skin** : There are no data available on the mixture itself.

**Respiratory** : There are no data available on the mixture itself.

### Mutagenicity

**Conclusion/Summary** : There are no data available on the mixture itself.

### Carcinogenicity

**Conclusion/Summary** : There are no data available on the mixture itself.

### Reproductive toxicity

**Conclusion/Summary** : There are no data available on the mixture itself.

### Teratogenicity

**Conclusion/Summary** : There are no data available on the mixture itself.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

**Information on likely routes of exposure** : Not available.

### Potential acute health effects

**Inhalation** : No known significant effects or critical hazards.

**Ingestion** : No known significant effects or critical hazards.

**Skin contact** : No known significant effects or critical hazards.

**Eye contact** : Causes serious eye damage.

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

**Inhalation** : No specific data.

**Ingestion** : Adverse symptoms may include the following:  
stomach pains

**Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur

**Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness

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

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

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## SECTION 11: Toxicological information

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Potential chronic health effects

Not available.

**Conclusion/Summary** : Not available.

**General** : No known significant effects or critical hazards.

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

**Mutagenicity** : No known significant effects or critical hazards.

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

**Other information** : Not available.

None known.

### 11.2 Information on other hazards

#### 11.2.1 Endocrine disrupting properties

Not available.

#### 11.2.2 Other information

Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

| Product/ingredient name                               | Result                  | Species                           | Exposure |
|---|-------------------------|-----------------------------------|----------|
| Amides, C8-18 and C18-unsatd., N,N-bis (hydroxyethyl) | Acute EC50 1 to 10 mg/l | Algae - Selenastrum capricornutum | 96 hours |
|   | Acute EC50 1 to 10 mg/l | Daphnia - Daphnia magna           | 48 hours |
|   | Acute LC50 1 to 10 mg/l | Fish - Onchorhynchus mykiss       | 96 hours |

**Conclusion/Summary** : There are no data available on the mixture itself.

### 12.2 Persistence and degradability

| Product/ingredient name                               | Test | Result         | Dose | Inoculum |
|---|------|----------------|------|----------|
| Amides, C8-18 and C18-unsatd., N,N-bis (hydroxyethyl) | -    | 60 % - 28 days | -    | -        |

**Conclusion/Summary** : There are no data available on the mixture itself.

| Product/ingredient name                               | Aquatic half-life | Photolysis | Biodegradability |
|---|-------------------|------------|------------------|
| Amides, C8-18 and C18-unsatd., N,N-bis (hydroxyethyl) | -                 | -          | Inherent         |

### 12.3 Bioaccumulative potential

|                            |   |
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## SECTION 12: Ecological information

| Product/ingredient name                               | LogP <sub>ow</sub> | BCF   | Potential |
|---|--------------------|-------|-----------|
| 2-(2-butoxyethoxy)ethanol                             | 1                  | -     | low       |
| Amides, C8-18 and C18-unsatd., N,N-bis (hydroxyethyl) | -                  | 65.36 | low       |
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts | 0.3                | -     | low       |

### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

### 12.6 Endocrine disrupting properties

Not available.

### 12.7 Other adverse effects

No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 13.1 Waste treatment methods

#### Product

- Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
- Hazardous waste** : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

#### European waste catalogue (EWC)

| Waste code | Waste designation              |
|------------|--------------------------------|
| 08 01 99   | wastes not otherwise specified |

#### Packaging

- Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

| Type of packaging | European waste catalogue (EWC) |
|-------------------|--------------------------------|
| Container         | 15 01 06 mixed packaging       |

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## SECTION 13: Disposal considerations

**Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## 14. Transport information

|                                 | ADR/RID         | ADN             | IMDG            | IATA            |
|---------------------------------|-----------------|-----------------|-----------------|-----------------|
| 14.1 UN number or ID number     | Not regulated.  | Not regulated.  | Not regulated.  | Not regulated.  |
| 14.2 UN proper shipping name    | -               | -               | -               | -               |
| 14.3 Transport hazard class(es) | -               | -               | -               | -               |
| 14.4 Packing group              | -               | -               | -               | -               |
| 14.5 Environmental hazards      | No.             | No.             | No.             | No.             |
| Marine pollutant substances     | Not applicable. | Not applicable. | Not applicable. | Not applicable. |

### Additional information

ADR/RID : None identified.

ADN : None identified.

IMDG : None identified.

IATA : None identified.

**14.6 Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7 Maritime transport in bulk according to IMO instruments** : Not applicable.

## SECTION 15: Regulatory information

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

[EU Regulation \(EC\) No. 1907/2006 \(REACH\)](#)

[Annex XIV - List of substances subject to authorisation](#)

[Annex XIV](#)

None of the components are listed.

[Substances of very high concern](#)

None of the components are listed.

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## SECTION 15: Regulatory information

**Annex XVII - Restrictions** : Not applicable.  
on the manufacture,  
placing on the market  
and use of certain  
dangerous substances,  
mixtures and articles

### Ozone depleting substances (1005/2009/EU)

Not listed.

### Seveso Directive

This product is not controlled under the Seveso Directive.

### National regulations

**Product registration number** : 4226008

**MAL-code** : 00-3

**Protection based on MAL** : **According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:**

**General:** Gloves must be worn for all work that may result in soiling. Apron/coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. A face shield must be worn in work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required.

In all spraying operations in which there is return spray, the following must be worn: respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed.

MAL-code: 00-3

**Application:** During downtimes, cleaning and repair in closed facilities, spray booths or cabins, if there is a risk of contact with wet paint or organic solvents. When using scraper or knife, brush, roller, etc, for pre- and post-treatments in cabins or booths of the existing\* facility type, if the operator is inside the spray zone.

- Coveralls must be worn.

When spraying in existing\* spray booths, if the operator is outside the spray zone.

- Arm protectors and apron must be worn.

During all spraying where atomisation occurs in cabins or spray booths where the operator is inside the spray zone and during spraying outside a closed facility, cabin or booth.

- Air-supplied full mask, coveralls and hood must be worn.

**Drying:** Items for drying/drying ovens that are temporarily placed on such things as rack trolleys, etc, must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone.

**Polishing:** When polishing treated surfaces, a mask with dust filter must be worn.

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## SECTION 15: Regulatory information

When machine grinding, eye protection must be worn. Work gloves must always be worn.

**Caution** The regulations contain other stipulations in addition to the above.

\*See Regulations.

**Restrictions on use** : Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order regarding Young People At Work.

**List of undesirable substances** : Not listed

**15.2 Chemical safety assessment** : No Chemical Safety Assessment has been carried out.

## SECTION 16: Other information

Indicates information that has changed from previously issued version.

### Abbreviations and acronyms

ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

PNEC = Predicted No Effect Concentration

RRN = REACH Registration Number

PBT = Persistent, Bioaccumulative and Toxic

vPvB = Very Persistent and Very Bioaccumulative

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

IMDG = International Maritime Dangerous Goods

IATA = International Air Transport Association

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification          | Justification      |
|-------------------------|--------------------|
| Eye Dam. 1, H318        | Calculation method |
| Aquatic Chronic 3, H412 | Calculation method |

### Full text of abbreviated H statements

|      |  |
|------|--|
| H315 | Causes skin irritation.                            |
| H318 | Causes serious eye damage.                         |
| H319 | Causes serious eye irritation.                     |
| H411 | Toxic to aquatic life with long lasting effects.   |
| H412 | Harmful to aquatic life with long lasting effects. |

### Full text of classifications [CLP/GHS]

|                   |   |
|-------------------|---|
| Aquatic Chronic 2 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 |
| Aquatic Chronic 3 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 |
| Eye Dam. 1        | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1  |
| Eye Irrit. 2      | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2  |
| Skin Irrit. 2     | SKIN CORROSION/IRRITATION - Category 2          |

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## SECTION 16: Other information

**Prepared by** : EHS

**Version** : 3.03

### Disclaimer

*The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by us, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.*