

## JOTUN 2-i-1 Husvask og soppfjerner

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

#### 1.1 Product identifier

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| <b>Product name</b>                  | : JOTUN 2-i-1 Husvask og soppfjerner |
| <b>UFI</b>                           | : 0H20-Y0KE-C00K-0WR5                |
| <b>Product code</b>                  | : 36262                              |
| <b>Product description</b>           | : Cleaner.                           |
| <b>Product type</b>                  | : Liquid.                            |
| <b>Other means of identification</b> | : Not available.                     |

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

Use in coatings - Consumer use: Apply this product only as specified on the label.

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

Jotun A/S  
P.O.Box 2021  
3202 Sandefjord  
Norway

Tel: + 47 33 45 70 00  
Fax: +47 33 45 72 42  
E-mail: SDSJotun@jotun.no

#### 1.4 Emergency telephone number

Norwegian National Poison Centre: +47 22 59 13 00

**NOBB number** : 51427392, 51427403

### 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]

Skin Corr. 1B, H314  
Eye Dam. 1, H318  
Aquatic Acute 1, H400  
Aquatic Chronic 2, H411

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

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** : H314 - Causes severe skin burns and eye damage.  
H410 - Very toxic to aquatic life with long lasting effects.

JOTUN 2-i-1 Husvask og soppfjerner

## SECTION 2: Hazards identification

### Precautionary statements

- General** : P102 - Keep out of reach of children.
- Prevention** : P261 - Avoid breathing spray.  
P280 - Wear protective gloves, protective clothing and eye or face protection.  
P273 - Avoid release to the environment.
- Response** : P391 - Collect spillage.  
P304 + P310 - IF INHALED: Immediately call a POISON CENTER or doctor.  
P301 + P310, P330, P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353, P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor.  
P363 - Wash contaminated clothing before reuse.  
P305 + P351 + P338, P310 - 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** : P405 - Store locked up.

**Disposal** : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Hazardous ingredients** : quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides didecyldimethylammonium chloride

**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** : Yes, applicable.

**Tactile warning of danger** : Yes, applicable.

### 2.3 Other hazards

**Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII** : 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.

## SECTION 3: Composition/information on ingredients

**3.2 Mixtures** : Mixture

| Product/ingredient name   | Identifiers   | %  | Classification  | Specific Conc. Limits, M-factors and ATEs                   | Type |
|---|---|----|---|---|------|
| quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides | REACH #: 01-2119965180-41<br>EC: 270-325-2<br>CAS: 68424-85-1 | ≤5 | Acute Tox. 4, H302<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 | ATE [Oral] = 426 mg/kg<br>M [Acute] = 10<br>M [Chronic] = 1 | [1]  |

JOTUN 2-i-1 Husvask og soppfjerner

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

|   |  |      |  |  |         |
|---|--|------|--|--|---------|
| didecyldimethylammonium chloride                                | REACH #:<br>01-2119945987-15<br>EC: 230-525-2<br>CAS: 7173-51-5                      | ≤5   | Acute Tox. 4, H302<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Aquatic Acute 1, H400<br>Aquatic Chronic 2, H411                            | ATE [Oral] = 500 mg/kg<br>M [Acute] = 10 | [1]     |
| Alcohols, C9-11, ethoxylated                                    | REACH #:<br>01-2119980051-45<br>CAS: 68439-46-3                                      | ≤3   | Eye Irrit. 2, H319   | -  | [1]     |
| propan-2-ol   | REACH #:<br>01-2119457558-25<br>EC: 200-661-7<br>CAS: 67-63-0<br>Index: 603-117-00-0 | ≤3   | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336  | -  | [1] [2] |
| quaternary C12-14 alkyl methyl amine ethoxylate methyl chloride | REACH #: Polymer<br>EC: 810-152-7<br>CAS: 1554325-20-0                               | ≤2.5 | Acute Tox. 4, H302<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br><b>See Section 16 for the full text of the H statements declared above.</b> | ATE [Oral] = 500 mg/kg                   | [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.

**SECTION 4: First aid measures****4.1 Description of first aid measures**

- General** : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
- 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**

JOTUN 2-i-1 Husvask og soppfjerner

**SECTION 4: First aid measures**

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

**Over-exposure signs/symptoms**

|                     |  |
|---------------------|--|
| <b>Eye contact</b>  | : Adverse symptoms may include the following:<br>pain<br>watering<br>redness                           |
| <b>Inhalation</b>   | : No specific data.  |
| <b>Skin contact</b> | : Adverse symptoms may include the following:<br>pain or irritation<br>redness<br>blistering may occur |
| <b>Ingestion</b>    | : Adverse symptoms may include the following:<br>stomach pains   |

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

|                            |   |
|----------------------------|---|
| <b>Notes to physician</b>  | : 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. |
| <b>Specific treatments</b> | : No specific treatment.  |

See toxicological information (Section 11)

**SECTION 5: Firefighting measures****5.1 Extinguishing media**

|                                       |  |
|---------------------------------------|--|
| <b>Suitable extinguishing media</b>   | : Recommended: alcohol-resistant foam, CO <sub>2</sub> , powders, water spray. |
| <b>Unsuitable extinguishing media</b> | : Do not use water jet.  |

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

|  |   |
|--|---|
| <b>Hazards from the substance or mixture</b> | : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.                      |
| <b>Hazardous combustion products</b>         | : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen. |

**5.3 Advice for firefighters**

|   |   |
|---|---|
| <b>Special protective actions for fire-fighters</b> | : Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses. |
|---|---|

JOTUN 2-i-1 Husvask og soppfjerner

## SECTION 5: Firefighting measures

**Special protective equipment for fire-fighters** : Appropriate breathing apparatus may be required.

## SECTION 6: Accidental release measures

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

**For non-emergency personnel** : Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.

**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** : Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

**6.3 Methods and material for containment and cleaning up** : 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 (see Section 13). Preferably clean with a detergent. Avoid using solvents.

**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

Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits.  
In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.  
Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing and floors should be of the conducting type.  
Keep away from heat, sparks and flame. No sparking tools should be used.  
Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding.  
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.  
Put on appropriate personal protective equipment (see Section 8).  
Never use pressure to empty. Container is not a pressure vessel.  
Always keep in containers made from the same material as the original one.  
Comply with the health and safety at work laws.  
Do not allow to enter drains or watercourses.

#### Information on fire and explosion protection

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

### 7.2 Conditions for safe storage, including any incompatibilities

JOTUN 2-i-1 Husvask og soppfjerner

**SECTION 7: Handling and storage**

Store in accordance with local regulations.

**Notes on joint storage**

Keep away from: oxidising agents, strong alkalis, strong acids.

**Additional information on storage conditions**

Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

**Seveso Directive - Reporting thresholds****Danger criteria**

| Category | Notification and MAPP threshold | Safety report threshold |
|----------|---------------------------------|-------------------------|
| E1       | 100 tonne                       | 200 tonne               |

See Technical Data Sheet / packaging for further information.

**7.3 Specific end use(s)**

**Recommendations** : Not available.

**Industrial sector specific solutions** : Not available.

**SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

**8.1 Control parameters****Occupational exposure limits**

| Product/ingredient name | Exposure limit values  |
|-------------------------|--|
| propan-2-ol             | <b>FOR-2011-12-06-1358 (Norway, 6/2021).</b><br>TWA: 100 ppm 8 hours.<br>TWA: 245 mg/m <sup>3</sup> 8 hours. |

**Recommended monitoring procedures** : 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/DMELs**

| Product/ingredient name   | Type | Exposure             | Value                  | Population         | Effects  |
|---|------|----------------------|------------------------|--------------------|----------|
| quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides | DNEL | Long term Inhalation | 1.64 mg/m <sup>3</sup> | General population | Systemic |
|   | DNEL | Long term Oral       | 3.4 mg/kg bw/day       | General population | Systemic |
|   | DNEL | Long term Dermal     | 3.4 mg/kg bw/day       | General population | Systemic |
|   | DNEL | Long term Inhalation | 3.96 mg/m <sup>3</sup> | Workers            | Systemic |
|   | DNEL | Long term Dermal     | 5.7 mg/kg bw/day       | Workers            | Systemic |
| Alcohols, C9-11, ethoxylated  | DNEL | Long term Oral       | 25 mg/kg bw/day        | General population | Systemic |



JOTUN 2-i-1 Husvask og soppfjerner

## SECTION 8: Exposure controls/personal protection

|             |      |                      |                       |                                |          |
|-------------|------|----------------------|-----------------------|--------------------------------|----------|
| propan-2-ol | DNEL | Long term Inhalation | 87 mg/m <sup>3</sup>  | General population             | Systemic |
|             | DNEL | Long term Inhalation | 294 mg/m <sup>3</sup> | Workers                        | Systemic |
|             | DNEL | Long term Dermal     | 1250 mg/kg bw/day     | General population             | Systemic |
|             | DNEL | Long term Dermal     | 2080 mg/kg bw/day     | Workers                        | Systemic |
|             | DNEL | Long term Dermal     | 888 mg/kg bw/day      | Workers                        | Systemic |
|             | DNEL | Long term Inhalation | 500 mg/m <sup>3</sup> | Workers                        | Systemic |
|             | DNEL | Long term Dermal     | 319 mg/kg bw/day      | General population [Consumers] | Systemic |
|             | DNEL | Long term Inhalation | 89 mg/m <sup>3</sup>  | Workers                        | Systemic |
|             | DNEL | Long term Oral       | 26 mg/kg bw/day       | General population [Consumers] | Systemic |
|             | DNEL | Long term Oral       | 26 mg/kg bw/day       | General population             | Systemic |
|             | DNEL | Long term Inhalation | 89 mg/m <sup>3</sup>  | General population             | Systemic |
|             | DNEL | Long term Dermal     | 319 mg/kg bw/day      | General population             | Systemic |
|             | DNEL | Long term Inhalation | 500 mg/m <sup>3</sup> | Workers                        | Systemic |
|             | DNEL | Long term Dermal     | 888 mg/kg bw/day      | Workers                        | Systemic |

### PNECs

| Product/ingredient name | Compartment Detail     | Value         | Method Detail |
|-------------------------|------------------------|---------------|---------------|
| propan-2-ol             | Fresh water            | 140.9 mg/l    | -             |
|                         | Marine                 | 140.9 mg/l    | -             |
|                         | Sewage Treatment Plant | 2251 mg/l     | -             |
|                         | Fresh water sediment   | 552 mg/kg dwt | -             |
|                         | Marine water sediment  | 552 mg/kg dwt | -             |
|                         | Soil                   | 28 mg/kg dwt  | -             |
|                         | Secondary Poisoning    | 160 mg/kg     | -             |

## 8.2 Exposure controls

**Appropriate engineering controls** : Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.

### 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** : Safety eyewear complying to ISO 16321-1:2022 should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

### Skin protection

JOTUN 2-i-1 Husvask og soppfjerner

## SECTION 8: Exposure controls/personal protection

### Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

### Gloves

Wear suitable gloves tested to ISO 374-1:2016.

Recommended, gloves(breakthrough time) > 8 hours: nitrile rubber (> 0.4 mm), butyl rubber (> 0.4 mm), Viton® (> 0.7 mm), 4H/Silver Shield® (> 0.07 mm), neoprene (> 0.35 mm)

May be used, gloves(breakthrough time) 4 - 8 hours: Teflon (> 0.35 mm)

Not recommended, gloves(breakthrough time) < 1 hour: PVC (> 0.5 mm), polyvinyl alcohol (PVA) (> 0.3 mm)

For right choice of glove materials, with focus on chemical resistance and time of penetration, seek advice by the supplier of chemical resistant gloves.

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.

- Body protection** : Personnel should wear antistatic clothing made of natural fibres or of high-temperature-resistant synthetic fibres.
- 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** : If workers are exposed to concentrations above the exposure limit, they must use a respirator according to EN 140. Use respiratory mask with charcoal and dust filter when spraying this product, according to EN 14387 (as filter combination A2-P2). In confined spaces, use compressed-air or fresh-air respiratory equipment. When use of roller or brush, consider use of charcoalfilter.
- Environmental exposure controls** : Do not allow to enter drains or watercourses.

## 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** : Liquid.
- Colour** : Colourless.
- Odour** : Faint odour.
- Odour threshold** : Not applicable.
- Melting point/freezing point** : 0
- Initial boiling point and boiling range** : 100°C (212°F)
- Flammability** : Not applicable.
- Lower and upper explosion limit** : 2 - 12%
- Flash point** : Closed cup: Not applicable.
- Auto-ignition temperature** : Lowest known value: 456°C (852.8°F) (propan-2-ol).
- Decomposition temperature** : Not available.
- pH** : 7 to 9



JOTUN 2-i-1 Husvask og soppfjerner

**SECTION 9: Physical and chemical properties**

|  |  |
|--|--|
| <b>Viscosity</b>                               | : Kinematic (40°C): 1 mm <sup>2</sup> /s                           |
| <b>Solubility in water</b>                     | : cold water Easily soluble<br>hot water Easily soluble            |
| <b>Partition coefficient: n-octanol/ water</b> | : Not available.   |
| <b>Vapour pressure</b>                         | : Highest known value: 4.4 kPa (33 mm Hg) (at 20°C) (propan-2-ol). |
| <b>Evaporation rate</b>                        | : 1.7 (propan-2-ol) compared with butyl acetate                    |
| <b>Density</b>                                 | : 1 g/cm <sup>3</sup>  |
| <b>Vapour density</b>                          | : Highest known value: 2.1 (Air = 1) (propan-2-ol).                |
| <b>Explosive properties</b>                    | : Not available.   |
| <b>Oxidising properties</b>                    | : Not available.   |
| <b><u>Particle characteristics</u></b>         |  |
| <b>Median particle size</b>                    | : Not applicable.  |

**9.2 Other information**

No additional information.

**SECTION 10: Stability and reactivity**

|  |  |
|--|--|
| <b>10.1 Reactivity</b>                         | : No specific test data related to reactivity available for this product or its ingredients.                                     |
| <b>10.2 Chemical stability</b>                 | : Stable under recommended storage and handling conditions (see Section 7).  |
| <b>10.3 Possibility of hazardous reactions</b> | : Under normal conditions of storage and use, hazardous reactions will not occur.  |
| <b>10.4 Conditions to avoid</b>                | : When exposed to high temperatures may produce hazardous decomposition products.  |
| <b>10.5 Incompatible materials</b>             | : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids. |
| <b>10.6 Hazardous decomposition products</b>   | : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.        |

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

**Acute toxicity**

JOTUN 2-i-1 Husvask og soppfjerner

**SECTION 11: Toxicological information**

| Product/ingredient name   | Result      | Species | Dose        | Exposure |
|---|-------------|---------|-------------|----------|
| quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides | LD50 Oral   | Rat     | 426 mg/kg   | -        |
| Alcohols, C9-11, ethoxylated  | LD50 Oral   | Rat     | 1378 mg/kg  | -        |
| propan-2-ol   | LD50 Dermal | Rabbit  | 12800 mg/kg | -        |
|   | LD50 Oral   | Rat     | 5000 mg/kg  | -        |

**Acute toxicity estimates**

| Product/ingredient name   | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|---|--------------|----------------|--------------------------|-----------------------------|-------------------------------------|
| JOTUN 2-i-1 Husvask og soppfjerner                                    | 5127.6       | N/A            | N/A                      | N/A                         | N/A                                 |
| quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides | 426          | N/A            | N/A                      | N/A                         | N/A                                 |
| didecyldimethylammonium chloride                                      | 500          | N/A            | N/A                      | N/A                         | N/A                                 |
| propan-2-ol   | 5000         | 12800          | N/A                      | N/A                         | N/A                                 |
| quaternary C12-14 alkyl methyl amine ethoxylate                       | 500          | N/A            | N/A                      | N/A                         | N/A                                 |
| methyl chloride   |              |                |                          |                             |                                     |

**Irritation/Corrosion**

| Product/ingredient name   | Result                   | Species                      | Score | Exposure                | Observation |
|---|--------------------------|------------------------------|-------|-------------------------|-------------|
| quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides | Skin - Severe irritant   | Rabbit                       | -     | 25 milligrams           | -           |
| didecyldimethylammonium chloride                                      | Skin - Severe irritant   | Rabbit                       | -     | 500 milligrams          | -           |
| Alcohols, C9-11, ethoxylated  | Eyes - Mild irritant     | Mammal - species unspecified | -     | -                       | -           |
| propan-2-ol   | Eyes - Moderate irritant | Rabbit                       | -     | 24 hours 100 milligrams | -           |
|   | Skin - Mild irritant     | Rabbit                       | -     | 500 milligrams          | -           |
| quaternary C12-14 alkyl methyl amine ethoxylate                       | Eyes - Irritant          | Mammal - species unspecified | -     | -                       | -           |
| methyl chloride   | Skin - Mild irritant     | Mammal - species unspecified | -     | -                       | -           |

**Sensitisation**

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

**Mutagenicity**

No known significant effects or critical hazards.

**Carcinogenicity**

No known significant effects or critical hazards.

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

No known significant effects or critical hazards.

**Specific target organ toxicity (single exposure)**

JOTUN 2-i-1 Husvask og soppfjerner

**SECTION 11: Toxicological information**

| Product/ingredient name | Category   | Route of exposure | Target organs    |
|-------------------------|------------|-------------------|------------------|
| propan-2-ol             | Category 3 | -                 | Narcotic effects |

**Specific target organ toxicity (repeated exposure)**

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

**Aspiration hazard**

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

**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**

There are no data available on the mixture itself.

Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

| Product/ingredient name   | Result                                   | Species                                 | Exposure |
|---|--|---|----------|
| quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides | Acute EC50 0.015 mg/l                    | Daphnia                                 | 48 hours |
| didecyldimethylammonium chloride                                      | Acute LC50 0.85 mg/l                     | Fish                                    | 96 hours |
|   | Chronic NOEC 32.2 ppb                    | Fish - Pimephales promelas              | 34 days  |
|   | Acute IC50 <1 mg/l                       | Algae                                   | 72 hours |
| propan-2-ol   | Acute LC50 970 to 1100 µg/l Marine water | Crustaceans - Neomysis mercedis - Adult | 48 hours |
|   | Acute EC50 10100 mg/l Fresh water        | Daphnia - Daphnia magna                 | 48 hours |
|   | Acute LC50 4200 mg/l Fresh water         | Fish - Rasbora heteromorpha             | 96 hours |

**Conclusion/Summary** : This material is very toxic to aquatic life. This material is toxic to aquatic life with long lasting effects.

**12.2 Persistence and degradability**

| Product/ingredient name   | Test      | Result                   | Dose | Inoculum |
|---|-----------|--------------------------|------|----------|
| quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides | OECD 301E | 95 % - Readily - 25 days | -    | -        |

**Conclusion/Summary** : Not available.

| Product/ingredient name   | Aquatic half-life | Photolysis | Biodegradability |
|---|-------------------|------------|------------------|
| quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides | -                 | -          | Readily          |
| didecyldimethylammonium chloride                                      | -                 | -          | Readily          |

JOTUN 2-i-1 Husvask og soppfjerner

**SECTION 12: Ecological information****12.3 Bioaccumulative potential**

| Product/ingredient name | LogP <sub>ow</sub> | BCF | Potential |
|-------------------------|--------------------|-----|-----------|
| propan-2-ol             | 0.05               | -   | 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** : Yes.

**Disposal considerations** : Do not allow to enter drains or watercourses. Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

**European waste catalogue (EWC)**

The European Waste Catalogue classification of this product, when disposed of as waste, is:

| Waste code | Waste designation                          |
|------------|--|
| 20 01 29*  | detergents containing hazardous substances |

**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.

**Disposal considerations** : Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.








JOTUN 2-i-1 Husvask og soppfjerner

## SECTION 13: Disposal considerations

| Type of packaging | European waste catalogue (EWC)   |
|-------------------|--|
| CEPE Guidelines   | 15 01 10* packaging containing residues of or contaminated by hazardous substances |

**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 spilled material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

|  | ADR/RID  | ADN  | IMDG   | IATA   |
|--|--|--|--|--|
| <b>14.1 UN number or ID number</b>     | UN1760   | UN1760   | UN1760   | UN1760   |
| <b>14.2 UN proper shipping name</b>    | Corrosive liquid, n.o.s. (quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides, didecyldimethylammonium chloride)   | Corrosive liquid, n.o.s. (quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides, didecyldimethylammonium chloride)   | Corrosive liquid, n.o.s. (quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides, didecyldimethylammonium chloride). Marine pollutant (quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides) | Corrosive liquid, n.o.s. (quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides, didecyldimethylammonium chloride) |
| <b>14.3 Transport hazard class(es)</b> | 8<br>  | 8<br>  | 8<br>   | 8<br>   |
| <b>14.4 Packing group</b>              | III  | III  | III  | III  |
| <b>14.5 Environmental hazards</b>      | Yes.   | Yes.   | Yes.   | Yes. The environmentally hazardous substance mark is not required.   |

### Additional information

- ADR/RID** : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.  
**Hazard identification number** 80  
**Tunnel code** (E)
- ADN** : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
- IMDG** : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.  
**Emergency schedules** F-A, S-B
- IATA** : The environmentally hazardous substance mark may appear if required by other transportation regulations.

**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.

JOTUN 2-i-1 Husvask og soppfjerner

## SECTION 14: Transport information

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

## 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.

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

**Other EU regulations**

**VOC** : The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the product label and/or technical data sheet for further information.

**VOC for Ready-for-Use Mixture** : Not available.

**Industrial emissions (integrated pollution prevention and control) - Air** : Not listed

**Industrial emissions (integrated pollution prevention and control) - Water** : Not listed

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

Not listed.

**Prior Informed Consent (PIC) (649/2012/EU)**

| Annex            | Ingredient name                  | Status |
|------------------|----------------------------------|--------|
| Annex I - Part 1 | didecyldimethylammonium chloride | Listed |

**Persistent Organic Pollutants**

Not listed.

**Seveso Directive**

This product may add to the calculation for determining whether a site is within the scope of the Seveso Directive on major accident hazards.

**Norway**

**Product registration number** : 626184

**International regulations**

**Chemical Weapon Convention List Schedules I, II & III Chemicals**

Not listed.

**Montreal Protocol**

Not listed.



JOTUN 2-i-1 Husvask og soppfjerner

**SECTION 15: Regulatory information****Stockholm Convention on Persistent Organic Pollutants**

Not listed.

**Rotterdam Convention on Prior Informed Consent (PIC)**

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals**

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]  
 DMEL = Derived Minimal Effect Level  
 DNEL = Derived No Effect Level  
 EUH statement = CLP-specific Hazard statement  
 N/A = Not available  
 PBT = Persistent, Bioaccumulative and Toxic  
 PNEC = Predicted No Effect Concentration  
 RRN = REACH Registration Number  
 SGG = Segregation Group  
 vPvB = Very Persistent and Very Bioaccumulative

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

| Classification          | Justification      |
|-------------------------|--------------------|
| Skin Corr. 1B, H314     | Calculation method |
| Eye Dam. 1, H318        | Calculation method |
| Aquatic Acute 1, H400   | Calculation method |
| Aquatic Chronic 2, H411 | Calculation method |

**Full text of abbreviated H statements**

|      |   |
|------|---|
| H225 | Highly flammable liquid and vapour.                   |
| 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.                        |
| H336 | May cause drowsiness or dizziness.                    |
| H400 | Very toxic to aquatic life.                           |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects.      |

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

|                   |   |
|-------------------|---|
| Acute Tox. 4      | ACUTE TOXICITY - Category 4                                   |
| Aquatic Acute 1   | SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1                |
| Aquatic Chronic 1 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1               |
| Aquatic Chronic 2 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2               |
| Eye Dam. 1        | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1                |
| Eye Irrit. 2      | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2                |
| Flam. Liq. 2      | FLAMMABLE LIQUIDS - Category 2                                |
| Skin Corr. 1B     | SKIN CORROSION/IRRITATION - Category 1B                       |
| Skin Irrit. 2     | SKIN CORROSION/IRRITATION - Category 2                        |
| STOT SE 3         | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3 |

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JOTUN 2-i-1 Husvask og soppfjerner

## SECTION 16: Other information

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### Notice to reader

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