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

1.1. Product identifier

Product name: Granosan

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

Description: Bactericidal hard surface cleaner.

1.3. Details of the supplier of the safety data sheet

Company: Granwax Products Limited
Address: West Street, Riddings, Alfreton, Derbyshire, DE55 4EW
Web: www.granwax.com
Telephone: + 44 (0)1773 541177
Fax: + 44 (0)1773 541429
Email: info@granwax.com

1.4. Emergency telephone number

Emergency telephone number: + 44 (0)1773 541177
9.00 am - 5.00 pm Mon - Fri

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification - 1999/45/EC

Xi; R36
Symbols: Xi: Irritant.
Main hazards: Irritating to eyes.

2.1.2. Classification - EC 1272/2008

Skin Irrit. 2: H315; Eye Dam. 1: H318;

2.2. Label elements

Hazard pictograms

Signal Word: Danger
Hazard Statement: Skin Irrit. 2: H315 - Causes skin irritation.
Eye Dam. 1: H318 - Causes serious eye damage.
Precautionary Statement: Prevention
P264 - Wash with clean water thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
2.2. Label elements

Precautionary Statement:
Response
P302+P352 - IF ON SKIN: Wash with plenty of water.
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 - IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER/doctor/ or if you feel unwell.
P321 - Specific treatment (see on this label).
P332+P313 - IF SKIN IRRITATION OCCURS: GET MEDICAL ADVICE/ATTENTION.

2.3. Other hazards

Other hazards
No data is available on this product.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

67/548/EEC / 1999/45/EC

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Index No.</th>
<th>CAS No.</th>
<th>EC No.</th>
<th>REACH Registration Number</th>
<th>Conc. (%w/w)</th>
<th>Classification</th>
<th>M-factor.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amides,c8-c18(even numbered)and c18(unsatd)</td>
<td>931-329-6</td>
<td>0.5 - 1%</td>
<td>Xi; R38-41 N; R51/53</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quaternary ammonium compounds,benzyl-c8-18-alkyldimethyl hydride</td>
<td>68424-85-1</td>
<td>1 - 10%</td>
<td>C; R34 Xn; R21/22 N; R50</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tetrasodium ethylene diamine tetraacetate</td>
<td>607-428-00-2</td>
<td>1 - 10%</td>
<td>Xn; R22 Xn; R41</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C13-15 Alcohol ethoxylate 11eo</td>
<td>68131-39-5</td>
<td>1 - 10%</td>
<td>Xn; R22 Xn; R41</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C13-15 Alcohol ethoxylate 7eo</td>
<td>68131-39-5</td>
<td>1 - 10%</td>
<td>Xn; R22 Xn; R41 N; R50</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td>011-002-00-6</td>
<td>0 - 0.5%</td>
<td>C; R35</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

EC 1272/2008

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Index No.</th>
<th>CAS No.</th>
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<th>Conc. (%w/w)</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Quaternary ammonium compounds,benzyl-c8-18-alkyldimethyl hydride</td>
<td>68424-85-1</td>
<td>1 - 10%</td>
<td>Acute Tox. 4: H302; H312; Skin Corr. 1B: H314; Eye Dam. 1: H318; Aquatic Acute 1: H400;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
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<td>607-428-00-2</td>
<td>1 - 10%</td>
<td>Acute Tox. 4: H302; Eye Dam. 1: H318;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C13-15 Alcohol ethoxylate 11eo</td>
<td>68131-39-5</td>
<td>1 - 10%</td>
<td>Acute Tox. 4: H302; Eye Dam. 1: H318;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
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<td>68131-39-5</td>
<td>1 - 10%</td>
<td>Acute Tox. 4: H302; Eye Dam. 1: H318; Aquatic Acute 1: H400;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

4.1. Description of first aid measures

- **Inhalation**: Move the exposed person to fresh air.
- **Eye contact**: Rinse immediately with plenty of water for 15 minutes holding the eyelids open.
- **Skin contact**: Wash off immediately with plenty of soap and water. Remove contaminated clothing.
- **Ingestion**: DO NOT INDUCE VOMITING.

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

- **Inhalation**: Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system.
- **Eye contact**: May cause irritation to eyes.
- **Skin contact**: May cause irritation to skin.
- **Ingestion**: Ingestion may cause nausea and vomiting.

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

- **Inhalation**: If you feel unwell, seek medical advice (show the label where possible).
- **Eye contact**: Seek medical attention.
- **Skin contact**: Seek medical attention if irritation or symptoms persist.
4.3. Indication of any immediate medical attention and special treatment needed

**Ingestion**
If you feel unwell, seek medical advice (show the label where possible).

**SECTION 5: Firefighting measures**

5.1. Extinguishing media
Use extinguishing media appropriate to the surrounding fire conditions.

5.2. Special hazards arising from the substance or mixture
Burning produces irritating, toxic and obnoxious fumes.

5.3. Advice for firefighters
Wear self contained breathing apparatus and protective clothing.

**SECTION 6: Accidental release measures**

6.1. Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation of the working area. Avoid contact with skin and eyes.

6.2. Environmental precautions
Do not allow product to enter drains. Prevent further spillage if safe.

6.3. Methods and material for containment and cleaning up
Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.

6.4. Reference to other sections
See section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION for further information. See section 13. DISPOSAL CONSIDERATIONS for further information.

**SECTION 7: Handling and storage**

7.1. Precautions for safe handling
Ensure adequate ventilation of the working area. Avoid contact with eyes and skin. Adopt best Manual Handling considerations when handling, carrying and dispensing.

7.2. Conditions for safe storage, including any incompatibilities
Keep containers tightly closed. Keep in a cool, dry, well ventilated area. Store in correctly labelled containers.

7.3. Specific end use(s)
See section 1.2. Relevant identified uses of the substance or mixture and uses advised against for further information.

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

8.1. Control parameters

<table>
<thead>
<tr>
<th>Substance</th>
<th>WEL 8-hr limit ppm:</th>
<th>WEL 15 min limit ppm:</th>
<th>WEL 8-hr limit mg/m³ total inhalable dust:</th>
<th>WEL 15 min limit mg/m³ total inhalable dust:</th>
<th>WEL 8-hr limit mg/m³ total respirable dust:</th>
<th>WEL 15 min limit mg/m³ total respirable dust:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

DNEL: Derived no-effect level.
Granosan

Exposure Pattern - Workers

<table>
<thead>
<tr>
<th>Substance</th>
<th>Long-term - Inhalation - Local effects</th>
<th>1 mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

8.2. Exposure controls

8.2.1. Appropriate engineering controls
Not normally required.

8.2.2. Individual protection measures

Eye / face protection
Approved safety goggles.

Skin protection - Hand protection
Chemical resistant gloves (PVC).

Skin protection - Other
Wear suitable protective clothing.

Respiratory protection
Not normally required.

Occupational exposure controls
Keep away from food, drink and animal feedingstuffs.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>Clear</td>
</tr>
<tr>
<td>Odour</td>
<td>Mild</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour density</td>
<td>No data available</td>
</tr>
<tr>
<td>Fat Solubility</td>
<td>No data available</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>No data available</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Initial boiling point</td>
<td>&gt; 100 °C</td>
</tr>
<tr>
<td>pH</td>
<td>7.5</td>
</tr>
<tr>
<td>Relative density</td>
<td>± 1.065 (H2O = 1 @ 20 °C)</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in water</td>
</tr>
</tbody>
</table>

9.2. Other information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conductivity</td>
<td>No data available</td>
</tr>
<tr>
<td>Surface tension</td>
<td>No data available</td>
</tr>
<tr>
<td>Gas group</td>
<td>No data available</td>
</tr>
<tr>
<td>Benzene Content</td>
<td>No data available</td>
</tr>
<tr>
<td>Lead content</td>
<td>No data available</td>
</tr>
<tr>
<td>VOC (Volatile organic compounds)</td>
<td>No data available</td>
</tr>
</tbody>
</table>

SECTION 10: Stability and reactivity

10.1. Reactivity
Stable under normal conditions.
10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
No data is available on this product.

10.4. Conditions to avoid
No data is available on this product.

10.5. Incompatible materials
No data is available on this product.

10.6. Hazardous decomposition products
No data is available on this product.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Skin corrosion/irritation
May cause irritation to skin.

Serious eye damage/irritation
May cause irritation to eyes.

11.1.4. Toxicological Information
No data available

SECTION 12: Ecological information

12.1. Toxicity
Sodium hydroxide
Fish LC50/96h: 125.0000 mg/l

12.2. Persistence and degradability
No data is available on this product.

12.3. Bioaccumulative potential
No data is available on this product.

Partition coefficient

| Granosan | No data available |
| Sodium hydroxide | Not applicable. |

12.4. Mobility in soil
No data is available on this product.

12.5. Results of PBT and vPvB assessment
No data is available on this product.

12.6. Other adverse effects
No data is available on this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Dispose of in compliance with all local and national regulations.

SECTION 14: Transport information

14.1. UN number
The product is not classified as dangerous for carriage.

14.2. UN proper shipping name
The product is not classified as dangerous for carriage.
14.3. Transport hazard class(es)
The product is not classified as dangerous for carriage.

14.4. Packing group
The product is not classified as dangerous for carriage.

14.5. Environmental hazards
The product is not classified as dangerous for carriage.

14.6. Special precautions for user
The product is not classified as dangerous for carriage.
No data is available on this product.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
The product is not classified as dangerous for carriage.
No data is available on this product.

SECTION 15: Regulatory information

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


15.2. Chemical safety assessment
No data is available on this product.

SECTION 16: Other information

Other information
Text of risk phrases in Section 3
R21/22 - Harmful in contact with skin and if swallowed.
R22 - Harmful if swallowed.
R34 - Causes burns.
R35 - Causes severe burns.
R38 - Irritating to skin.
R41 - Risk of serious damage to eyes.
R50 - Very toxic to aquatic organisms.
R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Text of Hazard Statements in Section 3
Acute Tox. 4: H302+H312 - Harmful if swallowed or in contact with skin
Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.
Eye Dam. 1: H318 - Causes serious eye damage.
Aquatic Acute 1: H400 - Very toxic to aquatic life.
Acute Tox. 4: H302 - Harmful if swallowed.

Further information
The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information
| Further 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 other process. |