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

1.1. Product identifier

Product form: Mixture
Product name: DISHBAC
Product code: 221
Type of product: Detergent
Product group: Mixture

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

1.2.1. Relevant identified uses

Main use category: Professional use
Industrial/Professional use spec: Industrial
Use of the substance/mixture: Cleaning/washing agents and additives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer: Clover Chemicals Ltd
Clover House Macclesfield Road
SK23 7DQ Whaley Bridge – Derbyshire
United Kingdom
T 01663 733114 - F 01663 733115
info@cloverchemicals.com - www.cloverchemicals.com

Supplier: Christeyns NV
Afrikaal 182
9000 GENT
Belgium
T +32 (0)/9/ 223 38 71 - F +32 (0)/9/ 233 03 44
info@christeyns.be - www.christeyns.com

1.4. Emergency telephone number

<table>
<thead>
<tr>
<th>Country</th>
<th>Official advisory body</th>
<th>Address</th>
<th>Emergency number</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ireland</td>
<td>National Poisons Information Centre</td>
<td>PO Box 1297</td>
<td>+353 1 809 2566</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Beaumont Hospital</td>
<td>Beaumont Road 9 Dublin</td>
<td>(Healthcare professionals-24/7)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>+353 1 809 2166 (public, 8am - 10pm, 7/7)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>United Kingdom</td>
<td>National Poisons Information Service</td>
<td>Dudley Road B18 7QH</td>
<td>0344 892 0111</td>
<td>Only for healthcare</td>
</tr>
<tr>
<td></td>
<td>(Birmingham Centre) City Hospital</td>
<td></td>
<td></td>
<td>professionals</td>
</tr>
</tbody>
</table>

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Skin corrosion/irritation, Category 2: H315
Serious eye damage/eye irritation, Category 1: H318

Adverse physicochemical, human health and environmental effects
No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]
Hazard pictograms (CLP): GHS05

CLP Signal word: Danger
Contains: Sodium dodecylbenzenesulfonate; Alcohols, C12-14, ethoxylated, sulfates, sodium salts
Hazard statements (CLP): H315 - Causes skin irritation,
H318 - Causes serious eye damage.
Precautionary statements (CLP): P102 - Keep out of reach of children,
P264 - Wash hands thoroughly after handling,
P280 - Wear eye protection, protective gloves.
P302+P352 - IF ON SKIN: Wash with plenty of water.
**DISHBAC**

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

04/01/2023 (Revision date) EN (English) 2/8

P332+P313 - If skin irritation occurs: Get medical advice/attention.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 - IF eye irritation persists: Get medical advice/attention.

EUH-statements
: EUH208 - Contains 1,2-Benzisothiazol-3(2H)-one. May produce an allergic reaction.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

**Component**

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium dodecylbenzenesulfonate</td>
<td>CAS-no: 25155-30-0&lt;br&gt;Einecs nr: 246-680-4&lt;br&gt;REACH-no: 01-2119565112-48</td>
<td>10 – 30</td>
<td>Acute Tox. 4 (Oral), H302&lt;br&gt;Skin Irrit. 2, H315&lt;br&gt;Eye Dam. 1, H318</td>
</tr>
<tr>
<td>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</td>
<td>CAS-no: 68891-38-3&lt;br&gt;Einecs nr: 500-234-8&lt;br&gt;REACH-no: 01-2119488639-16</td>
<td>1 – 3</td>
<td>Skin Irrit. 2, H315&lt;br&gt;Eye Dam. 1, H318&lt;br&gt;Aquatic Chronic 3, H412</td>
</tr>
<tr>
<td>1,2-Benzisothiazol-3(2H)-one</td>
<td>CAS-no: 2634-33-5&lt;br&gt;Einecs nr: 220-120-9&lt;br&gt;EG annex nr: 613-088-00-6</td>
<td>&lt; 1</td>
<td>Acute Tox. 4 (Oral), H302&lt;br&gt;Skin Irrit. 2, H315&lt;br&gt;Eye Dam. 1, H318&lt;br&gt;Skin Sens. 1, H317&lt;br&gt;Aquatic Acute 1, H400</td>
</tr>
</tbody>
</table>

**Specific concentration limits:**

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>Specific concentration limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</td>
<td>CAS-no: 68891-38-3&lt;br&gt;Einecs nr: 500-234-8&lt;br&gt;REACH-no: 01-2119488639-16</td>
<td>( 5 ≤C &lt; 10) Eye Irrit. 2, H319&lt;br&gt;( 10 ≤C &lt; 100) Eye Dam. 1, H318</td>
</tr>
<tr>
<td>1,2-Benzisothiazol-3(2H)-one</td>
<td>CAS-no: 2634-33-5&lt;br&gt;Einecs nr: 220-120-9&lt;br&gt;EG annex nr: 613-088-00-6</td>
<td>( 0.05 ≤C &lt; 100) Skin Sens. 1, H317</td>
</tr>
</tbody>
</table>

Full text of H- and EUH-statements: see section 16

**SECTION 4: First aid measures**

4.1. Description of first aid measures

General advice : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation : Allow affected person to breathe fresh air. Allow the victim to rest.

Skin contact : Wash skin with plenty of water.

Eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms and effects, both acute and delayed
Acute effects skin : Causes skin irritation. Red skin.
Acute effects eyes : Causes serious eye damage. Redness.
Acute effects oral route : May cause irritation to the digestive tract.

4.3. Indication of any immediate medical attention and special treatment needed
No additional information available

SECTION 5: Firefighting measures
5.1. Extinguishing media
Suitable extinguishing media : Water.

5.2. Special hazards arising from the substance or mixture
Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon dioxide. Carbon monoxide.

5.3. Advice for firefighters
Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures
6.1. Personal precautions, protective equipment and emergency procedures
6.1.1. For non-emergency personnel
Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders
Protective equipment : Equip cleanup crew with proper protection.
Emergency procedures : Ventilate area.

6.2. Environmental precautions
Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections
See Section 8. Exposure controls and personal protection.

SECTION 7: Handling and storage
7.1. Precautions for safe handling
Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

Hygiene measures : Wash hands, forearms and face thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions : Keep container tightly closed.
Packaging materials : polyethylene. stainless steel.

7.3. Specific end use(s)
No additional information available

SECTION 8: Exposure controls/personal protection
8.1. Control parameters
8.1.1 National occupational exposure and biological limit values
No additional information available

8.1.2. Recommended monitoring procedures
No additional information available

8.1.3. Air contaminants formed
No additional information available

8.1.4. DNEL and PNEC
No additional information available

8.1.5. Control banding
No additional information available
8.2. Exposure controls

8.2.1. Appropriate engineering controls
No additional information available

8.2.2. Personal protection equipment
Personal protective equipment:
Avoid all unnecessary exposure.

Personal protective equipment symbol(s):

8.2.2.1. Eye and face protection
Eye protection:
Chemical goggles or safety glasses

8.2.2.2. Skin protection
Hand protection:
Wear protective gloves.

8.2.2.3. Respiratory protection
No additional information available

8.2.2.4. Thermal hazards
No additional information available

8.2.3. Environmental exposure controls
Other information:
Do not eat, drink or smoke during use.

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>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>Green</td>
</tr>
<tr>
<td>Physical state/form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Odour</td>
<td>odourless</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting point/range</td>
<td>0 °C</td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling point/Boiling range</td>
<td>100 °C</td>
</tr>
<tr>
<td>Flammability</td>
<td>Non flammable</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>Not available</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>Not available</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not available</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>9 – 9.5</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>350 cP at 20 °C</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Partition coefficient n-octanol/water (Log Kow)</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapour pressure at 50°C</td>
<td>Not available</td>
</tr>
<tr>
<td>Density</td>
<td>Not available</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.026</td>
</tr>
<tr>
<td>Relative vapour density at 20°C</td>
<td>Not available</td>
</tr>
<tr>
<td>Particle characteristics</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>
9.2. Other information

9.2.1. Information with regard to physical hazard classes
No additional information available

9.2.2. Other safety characteristics
No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity
No additional information available

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid
No additional information available

10.5. Incompatible materials
No additional information available

10.6. Hazardous decomposition products

SECTION 11: Toxicological information

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

<table>
<thead>
<tr>
<th>Acute toxicity (oral)</th>
<th>Not classified</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity (dermal)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Acute toxicity (inhalation)</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

**Sodium dodecylbenzenesulfonate (25155-30-0)**

| LD50 oral rat | 1080 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
| ATE CLP (oral) | 1080 mg/kg bodyweight |

**Alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3)**

| LD50 oral rat | > 4100 mg/kg OCDE 401 |
| LD50 dermal rat | > 2000 mg/kg OCDE 402 |
| ATE CLP (oral) | 4100 mg/kg |
| ATE CLP (dermal) | 2000 mg/kg |

**1,2-Benzisothiazol-3(2H)-one (2634-33-5)**

| ATE CLP (oral) | 500 mg/kg bodyweight |

Skin corrosion/irritation: Causes skin irritation. pH: 9 – 9.5

Serious eye damage/irritation: Causes serious eye damage. pH: 9 – 9.5

Respiratory or skin sensitisation: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

STOT-single exposure: Not classified

Additional information: Based on available data, the classification criteria are not met

Aspiration hazard: Not classified

Additional information: Based on available data, the classification criteria are not met
11.2. Information on other hazards

11.2.1. Endocrine disrupting properties
No additional information available

11.2.2. Other information
Potential adverse human health effects and symptoms: Based on available data, the classification criteria are not met

SECTION 12: Ecological information

12.1. Toxicity
Hazardous to the aquatic environment, short–term (acute): Not classified
Hazardous to the aquatic environment, long–term (chronic): Not classified
Not rapidly degradable

Alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3)

<table>
<thead>
<tr>
<th>Test</th>
<th>EC50/C50 (mg/l)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 - Fish [1]</td>
<td>7.1 mg/l OCDE 203</td>
</tr>
<tr>
<td>EC50 - Crustacea [1]</td>
<td>7.2 mg/l</td>
</tr>
<tr>
<td>EC50 72h - Algae [1]</td>
<td>27.7 mg/l</td>
</tr>
<tr>
<td>EC50 96h - Algae [1]</td>
<td>7.5 mg/l</td>
</tr>
<tr>
<td>NOEC chronic crustacea</td>
<td>0.27 mg/l</td>
</tr>
<tr>
<td>NOEC chronic algae</td>
<td>0.95 mg/l</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

DISHBAC

 Persistence and degradability: Biodegradable. The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Sodium dodecylbenzenesulfonate (25155-30-0)

 Persistence and degradability: Readily biodegradable.

Alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3)

 Persistence and degradability: Readily biodegradable, according to appropriate OECD test.

12.3. Bioaccumulative potential

DISHBAC

 Bioaccumulative potential: No bioaccumulation.

Sodium dodecylbenzenesulfonate (25155-30-0)

 Log Pow: 0.7

 Bioaccumulative potential: Bioaccumulation unlikely.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

DISHBAC

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Component

Alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3) This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Additional information: Avoid release to the environment.
SECTION 13: Disposal considerations

13.1. Waste treatment methods
Product/Packaging disposal recommendations: Dispose in a safe manner in accordance with local/national regulations.

Waste / unused products: Avoid release to the environment.

HP Code: HP4 - “Irritant – skin irritation and eye damage:” waste which on application can cause skin irritation or damage to the eye.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

<table>
<thead>
<tr>
<th>ADR</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.1. UN number or ID number</td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
<tr>
<td>14.2. UN proper shipping name</td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
<tr>
<td>14.3. Transport hazard class(es)</td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
<tr>
<td>14.4. Packing group</td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
<tr>
<td>14.5. Environmental hazards</td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
</tbody>
</table>

No supplementary information available

14.6. Special precautions for user
Overland transport
Not regulated

Transport by sea
Not regulated

Air transport
Not regulated

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)
Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)
Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)
Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)
Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)
Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)
Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)
DISHBAC
Safety Data Sheet
according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Detergent Regulation (648/2004)

Labelling of contents

<table>
<thead>
<tr>
<th>Component</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>anionic surfactants</td>
<td>5-15%</td>
</tr>
<tr>
<td>amphoteric surfactants</td>
<td>&lt;5%</td>
</tr>
<tr>
<td>BENZISOTHIAZOLINONE</td>
<td></td>
</tr>
</tbody>
</table>

Explosives Precursors Regulation (2019/1148)
Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations
No additional information available

15.2. Chemical safety assessment
No chemical safety assessment has been carried out

SECTION 16: Other information

Data sources

Other information
None.

Full text of H- and EUH-statements:

- Acute Tox. 4 (Oral) Acute toxicity (oral), Category 4
- Aquatic Acute 1 Hazardous to the aquatic environment – Acute Hazard, Category 1
- Aquatic Chronic 3 Hazardous to the aquatic environment – Chronic Hazard, Category 3
- EUH208 Contains 1,2-Benzoisothiazol-3(2H)-one. May produce an allergic reaction.
- Eye Dam. 1 Serious eye damage/eye irritation, Category 1
- Eye Irrit. 2 Serious eye damage/eye irritation, Category 2
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H400 Very toxic to aquatic life.
- H412 Harmful to aquatic life with long lasting effects.
- Skin Irrit. 2 Skin corrosion/irritation, Category 2
- Skin Sens. 1 Skin sensitisation, Category 1

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

- Skin Irrit. 2 H315 Calculation method
- Eye Dam. 1 H318 Calculation method

Safety Data Sheet (SDS), EU
This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.