NATURAMA Biocide

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

1.1 Product Identifier
Product Name: NATURAMA Biocide
Product Codes: UFI Code 2DFY-U058-000U-E1FM

1.2 Relevant identified uses of the substance or mixture and uses advised against
Uses advised against: Uses other than those identified are not recommended

1.3 Details of the supplier of the safety data sheet
Manufacturer & Supplier: BAUER Consultants Ltd
Company UFI Key 1000000140705
The Old Rectory
Tattershall Road - Kirkby on Bain
Lincoln
United Kingdom

EU source, for the purpose of Article 95
Manufacturer: BAUER Consultants Ltd
The Old Rectory
Kirkby on Bain
Lincoln LN10 6YN
Tel. +44 (0) 1526 323716
Email sales@greenppe.org

1.4 Emergency Telephone Number
01526 323716 - Office hours UK - 0830hrs to 1700 hrs Monday to Friday, 09.00 hrs to 1200 hrs Saturday (Sunday closed)
Emergency Action: Mobile UK 07836 369710 or International +44 7836 369710
In the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department. Poisons Register referenced by UK Supplier & Manufacturer
Product UFI Code 2DFY-U058-000U-E1FM

2 Hazards Identification

2.1 Classification of Substance or mixture
Product Definition: Mixture – Not to be diluted
Classification according to Regulation (EC) No. 1272/2008
Physical Hazards: None
Human Health Hazards: WARNING – Potential eye irritation
Environmental Hazards: None

2.2 Label Elements
Label Elements (In Accordance With (EC) No. 1272/2008)
Pictogram(s): GHS07 Warning
Signal Word: Possible eye irritation
Hazard Statements: Warning – Possible eye irritation
Precautionary statements: Prevention N/A
Response: P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read carefully and follow all instructions
H319 Could Cause serious eye irritation
2.3 Other hazards

Other hazards which do not result in classification

No additional information available

3 Composition/Information on Ingredients

3.2 Mixtures

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Product Identifier</th>
<th>Classification according to Regulation (EC) No. 1272/2008 (CLP)</th>
<th>EC List Number</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>7783-50-5</td>
<td>Hypochlorous Acid (Active Substance)</td>
<td>Not classified</td>
<td>238-999-5</td>
<td>0.00025 %</td>
</tr>
<tr>
<td>7779-9</td>
<td>Chloric Acid (Active Substance)</td>
<td>Eye Irritant: 2</td>
<td>201-069-3</td>
<td>&lt; 0.5 %</td>
</tr>
<tr>
<td>6855-73-1</td>
<td>D-Glucopyranose, oligomers, acetate, oxyglucopyranose, Glucose, 20% UP</td>
<td>Eye Dam: 1</td>
<td>509-270-2</td>
<td>&lt; 0.1 %</td>
</tr>
<tr>
<td>3324-84-3</td>
<td>Sodium octane-1-sulfonate monohydrate</td>
<td>Skin Irrit: 2, Eye Dam: 1</td>
<td>226-198-4</td>
<td>&lt; 0.1 %</td>
</tr>
<tr>
<td>7312-34-5</td>
<td>Tetrapotassium pyrophosphate</td>
<td>Skin Cor: 1, Eye Dam: 1</td>
<td>230-7885-7</td>
<td>&lt; 1.5 %</td>
</tr>
<tr>
<td>7332-13-3</td>
<td>Water (Aqua)</td>
<td>Not classified</td>
<td>243-791-2</td>
<td>&gt; 100 %</td>
</tr>
</tbody>
</table>

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 and hence require reporting in this section

Type
1 Substance classified with a health or environmental hazard
2 Substance with a workplace exposure limit
3 Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
4 Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

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

4 First aid measures

4.1 Description of first aid measures

Eye Contact
Obtain medical attention if pain or redness occurs and persists.

Inhalation
Remove from source of exposure. Seek medical advice if symptoms occur.

Skin Contact
Obtain medical attention if pain or redness occurs and persists.

Ingestion
Obtain emergency medical attention in the event of pain or discomfort. Do not induce vomiting.

Protection of First Aider
Wear PPE if appropriate (Refer to section 8.2)

4.2 Most important symptoms and effects, both acute and delayed

Symptoms
Not expected to present a significant hazard under anticipated conditions of normal use. Not considered to cause sensitization. Further important symptoms and effects are so far not known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment
Treat according to symptoms (decontamination, vital functions). Toxicological information on components, where available, in given in section 11.
5 Fire fighting measures

5.1 Extinguishing media
Extinguishing media: Non-Flammable. Use extinguisher suitable for 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.
Hazardous combustion products: During fire toxic gases, CO and CO₂ are formed

5.3 Advice for fire-fighters
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 personal protective equipment as appropriate to the surrounding fire.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Remove unnecessary personal. Ventilate area and wear recommended personal protective equipment. See section 8.

6.2 Environmental precautions
Do not discharge into drains/surface waters/groundwater. Contain contaminated water/firefighting water. Notify authorities if liquid enters sewers or public waters.

6.3 Methods and material for containment and cleaning up
Small spill: Absorb with an inert dry material and place in an appropriate waste disposal container.
Large spill: Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. dry sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13).

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.

7 Handling and storage

7.1 Precautions for safe handling
Keep container tightly closed. Provide good ventilation of working area. Avoid contact with the skin, eyes and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Contaminated surfaces may be extremely slippery. Clean up spillages. Do not eat, drink or smoke in area where material is used or stored.

7.2 Conditions for safe storage, including any incompatibilities
Store between 5-35 Deg C. Store in original labelled containers. Keep container upright and tightly closed. Keep away from strong acids and bases. Protect from freezing.

7.3 Specific end use(s)
Recommendations: Not specific advice available.
Industrial sector specific solutions: Not applicable.

8 Exposure controls/personal protection

8.1 Control parameters
Occupational exposure limits
Safety Data Sheet

NATURAMA Biocide

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Exposure limit values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hypochlorous Acid (HOCL)</td>
<td>None All other contents are entirely non-hazardous</td>
</tr>
<tr>
<td>Derived effect levels</td>
<td>No DNELs available for the mixture.</td>
</tr>
<tr>
<td>Predicted effect concentrations</td>
<td>No PNECs available for the mixture.</td>
</tr>
</tbody>
</table>

8.2 Exposure controls

Process conditions
Provide eye-wash stations

Engineering Measures
Wear appropriate PPE if contact is possible when product is being used. If airborne vapours or mists are generated provide adequate general and local exhaust ventilation to keep exposure below any statutory limits.

Personal Protective Equipment
Respiratory protection: Not needed in normal use.
Hand protection: Not needed for normal use.
Eye protection: Not needed in normal use.
Body protection: Not needed in normal use.

General safety and 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. Wash contaminated clothing before reusing.

9 Physical & chemical properties

9.1 Information on basic physical and chemical properties

Physical state Liquid.
Colour Clear Colourless
Odour Product specific. Slight chlorine odour.
Odour threshold None
pH value 20 Deg C 7.0 to 7.5
Melting point/Freezing point Not determined for the mixture.
Initial boiling point and boiling range 100.1 Deg C
Flash point >100 deg C
Evaporation rate Not determined for the mixture.
Flammability (solid, gas) Not flammable
 Burning time Not flammable
 Burning rate Not flammable
Upper/lower flammability or explosive limits Not flammable
Vapour pressure Not determined for the mixture.
Relative density 0.990-1.010
Solubility(is) Readily soluble in cold and hot water
Partition coefficient: n-octanol/water Not determined for the mixture.
Auto ignition temperature Not determined for the mixture.
 Decomposition temperature Not determined for the mixture.
Viscosity Not determined for the mixture.
Explosive properties Not explosive
 Oxidising properties None

9.2 Other Information
No further relevant information available

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
Stable mixture under normal conditions or storage and use.

10.3 Possibility of hazardous reactions
Hazardous reactions will not occur in normal storage conditions.

10.4 Conditions to avoid
Direct sunlight.
Extremely high or low temperatures.

10.5 Incompatible materials
Will react with strong acids, strong bases. Chlorine gas may be released in the presence of strong acid.
10.6 Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 Toxicology

11.1 Information on toxicological effects

Acute Toxicity
Not Classified

Skin Corrosion/Irritation
Not Classified
pH 6.5-7.5

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

Serious Eye Damage/Irritation
Not Classified
pH 6.5-7.5

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

Respiratory or Skin sensitisation
Not Classified

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

Germ Cell Mutagenicity
Not Classified

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

Carcinogenicity
Not Classified

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

Reproductive Toxicity
Not Classified

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

STOT-Single Exposure
Not Classified

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

STOT-Repeated 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

Potential Adverse human health effects and symptoms
Based on available data, the classification criteria are not met

12 Ecological information

12.1 Toxicity
Ecological Toxicity data for this mixture is not available as ecological toxicity studies have not been carried out.

12.2 Persistence and degradability
Conclusion/Summary
Not determined for the mixture.

12.3 Bioaccumulative potential
Conclusion/Summary
Not determined for the mixture.

12.4 Mobility in soil

Soil/water partition coefficient (KOC)
Not determined for the mixture.

Mobility
Not determined for the mixture.

12.5 Results of PBT and vPvB assessment
PBT
Not applicable.

vPvB
Not applicable.

12.6 Other adverse effects
No known significant effects or critical hazards.

13: Disposal considerations

13.1 Waste treatment methods

Waste from residues / unused products
Dispose of in compliance with all National, Federal, state, provincial, and local laws and regulations.
EWC Code 07 06 99

Empty packaging recommendation:
Dispose of observing national or local regulations. (Can be cleaned with water)
14: Transport information

<table>
<thead>
<tr>
<th>14.1 UN number</th>
<th>ADR/RID</th>
<th>ADN/ADNR</th>
<th>IMDG</th>
<th>IATA</th>
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<tbody>
<tr>
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<table>
<thead>
<tr>
<th>14.2 UN proper shipping name</th>
<th>ADR/RID</th>
<th>ADN/ADNR</th>
<th>IMDG</th>
<th>IATA</th>
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<table>
<thead>
<tr>
<th>14.3 Transport hazard class(es):</th>
<th>ADR/RID</th>
<th>ADN/ADNR</th>
<th>IMDG</th>
<th>IATA</th>
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<tbody>
<tr>
<td>Not considered to be hazardous for transport</td>
<td>None</td>
<td>None</td>
<td>None</td>
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<th>14.4 Packing group</th>
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<th>IATA</th>
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<td>Not Required</td>
<td>Not Required</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>14.5 Environmental hazards</th>
<th>ADR/RID</th>
<th>ADN/ADNR</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
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<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.6 Special precautions for user</th>
<th>ADR/RID</th>
<th>ADN/ADNR</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>None known</td>
<td>None known</td>
<td>None known</td>
<td>None known</td>
<td>None known</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBCCode</th>
<th>ADR/RID</th>
<th>ADN/ADNR</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product not transported bulk tanker</td>
<td>Not required</td>
<td>None</td>
<td>None</td>
<td>None</td>
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</tbody>
</table>

Other relevant information (ADR) Not required

15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Ingredients according to EC Detergents Regulation 648/2004

15.2 Chemical safety assessment

Chemical safety assessment carried out on the active substance


References – Active Substance – Hypochlorous Acid

16: Other information

The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract

Reason for revision: Overall design adjusted in accordance with Regulation (EC) No 1907/2006, Annex II

* Indicates section(s) where changes have been made

Full text of the R, H and EUH phrases mentioned in section 3

Abbreviations and acronyms

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATE</td>
<td>Acute Toxicity Estimate</td>
</tr>
<tr>
<td>CLP</td>
<td>Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008]</td>
</tr>
<tr>
<td>DNEL</td>
<td>Derived No Effect Level</td>
</tr>
<tr>
<td>EUH statement</td>
<td>CLP-specific Hazard statement</td>
</tr>
<tr>
<td>N/A</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>
PNEC | Predicted No Effect Concentration
---|---
REACH No | REACH registration number, without supplier specific part

UFI Code 2DFY-U058-000U-E1FM
Company Key - 1000000140705

Clinical trials database - [https://clinicaltrials.gov/ct2/show/NCT04684550](https://clinicaltrials.gov/ct2/show/NCT04684550)