1. **SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

1.1 **Product identifier**  
Product Name: Cleanline BT Iodine  
Product Code(s): Not applicable

1.2 **Relevant identified uses of the substance or mixture and uses advised against**  
Identified use(s): Iodine-based ice-bank tank cleaner for manual or automatic use for the removal and prevention of fat and protein deposits. Product is for professional use only. Must not be used by persons under the age of 18, except when adult supervision is available.  
Uses advised against: Do not mix with alkalis or any other chemical products.

1.3 **Details of the supplier of the Safety Data Sheet**  
Company Identification: Nettex  
Units 2A  
Hoo Industrial Estate  
Hoo  
Rochester  
Kent  
ME3 9LB  
United Kingdom  
Telephone: +44 (0) 808 1781010  
E-Mail (competent person): info@progiene-dairy.com

1.4 **Emergency telephone number**  
Emergency Phone No.: +44 (0) 1634 257150 (09.00 – 17.00 GMT Monday - Friday)

2. **SECTION 2: HAZARDS IDENTIFICATION**

2.1 **Classification of the substance or mixture**

Acute Tox. (Category 4). Harmful if swallowed.  
Skin Corrosion (Category 1A). Causes severe skin burns and eye damage.

Harmful if swallowed.  
Corrosive. Causes severe burns.

2.2 **Label elements**

2.2.1 **Label elements**  
Signal word(s) | Danger
---|---
Hazard statement(s) | H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
Precautionary statement(s) | P102: Keep out of reach of children.
P264: Wash skin thoroughly after handling.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P330 + P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353: IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/shower.
P363: Wash contaminated clothing before reuse.
P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P310: Immediately call a POISON CENTRE or doctor/physician.
P305+P351+P338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P501: Dispose of contents/container to: hazardous waste site

2.2.2 Label elements

Hazard Symbol

Risk Phrases
R22: Harmful if swallowed.
R35: Causes severe burns.

Safety Phrases
S2: Keep out of the reach of children.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28: In case of contact with skin wash immediately with plenty of soap and water.
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.
S50: Do not mix with dairy hypochlorite or other chlorine based products.
S51: Use only in well ventilated areas.
S61: Avoid release to the environment. Refer to special instructions/ Safety data sheets
S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

2.3 Other hazards

Do not mix with alkalis or other chemical products.

2.4 Additional Information

None
3. **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

### 3.2 Mixtures

EC Classification No. 1272/2008

<table>
<thead>
<tr>
<th>Hazardous ingredient(s)</th>
<th>%W/W</th>
<th>Cas No.</th>
<th>EC No.</th>
<th>REACH Registration No.</th>
<th>Hazard pictogram(s) and Hazard statement(s)</th>
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<tbody>
<tr>
<td>Phosphoric Acid</td>
<td>5 - 15</td>
<td>7664-38-2</td>
<td>231-633-2</td>
<td>01-2119485924-24</td>
<td>Skin Corr. 1B: H314</td>
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<tr>
<td>Sulphuric Acid</td>
<td>5 - 15</td>
<td>7664-93-9</td>
<td>231-639-5</td>
<td>01-2119458838-20</td>
<td>Skin Corr. 1A: H314</td>
</tr>
<tr>
<td>Iodine</td>
<td>1 - 5</td>
<td>7553-56-2</td>
<td>231-442-4</td>
<td>01-2119457892-27</td>
<td>Acute Tox. 4; H312 Acute Tox. 4; H332 Aquatic Acute 1; H400</td>
</tr>
<tr>
<td>Alcohols, C12-13 - branched and linear, ethoxylated (&gt;5 -10 EO)</td>
<td>&gt;15</td>
<td>160901-19-9</td>
<td>931-954-4</td>
<td>Polymer</td>
<td>Acute Tox. 4: H362 Acute Tox. 1: H318</td>
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</tbody>
</table>

EC Classification No. 67/548/EEC

<table>
<thead>
<tr>
<th>Hazardous ingredient(s)</th>
<th>%W/W</th>
<th>Cas No.</th>
<th>EC No.</th>
<th>REACH Registration No.</th>
<th>EC Classification and Risk Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphoric Acid</td>
<td>5 - 15</td>
<td>7664-38-2</td>
<td>231-633-2</td>
<td>01-2119485924-24</td>
<td>C, R34</td>
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<tr>
<td>Sulphuric Acid</td>
<td>5 - 15</td>
<td>7664-93-9</td>
<td>231-639-5</td>
<td>01-2119458838-20</td>
<td>C, R35</td>
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<tr>
<td>Iodine</td>
<td>1 - 5</td>
<td>7553-56-2</td>
<td>231-442-4</td>
<td>01-2119457892-27</td>
<td>Xn, R20/21 N, R50</td>
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<tr>
<td>Alcohols, C12-13 - branched and linear, ethoxylated (&gt;5 -10 EO)</td>
<td>&gt;15</td>
<td>160901-19-9</td>
<td>931-954-4</td>
<td>Polymer</td>
<td>Xn, R22 Xl, R41</td>
</tr>
</tbody>
</table>

### 3.3 Additional Information

For full text of H/P phrases see section 16. For full text of R/S phrases see section 16.
4. SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

**Inhalation**
Remove persons affected by vapour to fresh air. For those providing assistance, avoid exposure to yourself or others.
If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance.
If breathing is irregular or has stopped, administer artificial respiration.

**Skin Contact**
Remove contaminated clothing and shoes immediately and wash affected skin with water.
Wash contaminated clothing before reuse.

**Eye Contact**
Eyes should be washed with plenty of water for at least 15 minutes. Get immediate medical attention.

**Ingestion**
Wash out mouth with water. Do not induce vomiting. Get immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Burning sensation, cough, wheezing, shortness of breath, spasm. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Itching, pain, redness, and swelling of skin. Corneal damage.

4.3 Indication of immediate medical attention and special treatment needed

If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

5. SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

**Suitable Extinguishing Media**
Extinguish with dry chemical, foam, water spray, or carbon dioxide.

**Unsuitable Extinguishing Media**
Straight streams of water

5.2 Special hazards arising from the substance or mixture

Evacuate area. If a leak or a spill has not ignited, use water spray to disperse the vapours and to protect personnel attempting to stop a leak. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.
6. SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Avoid contact with spilled material. Wear suitable protective equipment. Refer to section 5 for fire-fighting; section 4 for first-aid advice; and section 8 for minimum requirements for personal protective equipment.

6.2 Environmental precautions
Do not allow to enter drains, sewers or watercourses.

6.3 Methods and material for containment and cleaning up
Adsorb spillages onto sand, earth or any suitable adsorbent material.

6.4 Reference to other sections
Section 1 for emergency contact. Section 8 for information on appropriate personal protective equipment.

6.5 Additional Information
None

7. SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin. Avoid breathing fumes. Avoid ingestion. Avoid inhalation of vapours. Use only with adequate ventilation. Keep away from heat and sources of ignition. Keep container tightly closed. Wear protective gloves/clothing and eye/face protection.

7.2 Conditions for safe storage, including any incompatibilities
Store between 0°C to 25°C. Keep out of direct sunlight.
1 year.
Alkalis, chlorine-based products and oxidisers.

7.3 Specific end use(s)
Iodine-based ice-bank tank cleaner for manual or automatic use for the removal and prevention of fat and protein deposits.

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

<table>
<thead>
<tr>
<th>SUBSTANCE</th>
<th>CAS No.</th>
<th>LTEL (8 hr TWA ppm)</th>
<th>LTEL (8 hr TWA mg/m³)</th>
<th>STEL (ppm)</th>
<th>STEL (mg/m³)</th>
<th>Note:</th>
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<tr>
<td>Phosphoric Acid</td>
<td>7664-38-2</td>
<td>-</td>
<td>1</td>
<td>-</td>
<td>2</td>
<td>EH40</td>
</tr>
<tr>
<td>Sulphuric Acid</td>
<td>7664-93-9</td>
<td>-</td>
<td>0.05</td>
<td>-</td>
<td>1</td>
<td>EH40</td>
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<tr>
<td>Iodine</td>
<td>7553-56-2</td>
<td>-</td>
<td>-</td>
<td>0.1</td>
<td>1.1</td>
<td>EH40</td>
</tr>
</tbody>
</table>

8.1.2 Biological limit value
Not established

8.1.3 PNECs and DNELs
Not established

8.2.1 Appropriate engineering controls

8.2.2 Personal protection equipment
Eye/face protection
Wear chemical safety glasses with side shields, or splash-proof goggles
Skin protection (Hand protection/ Other) Any specific glove information provided is based on published literature and glove-manufacturer data. Contact the glove manufacturer for glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. Chemical resistant gloves are recommended. If contact with forearms is likely, wear gauntlet -style gloves. Nitrile, CEN standards EN 420 and EN 374 provide general requirements and list of glove types.

Respiratory protection If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements. Types of respirator to be considered for this mixture include: Half-face filter respirator; Type A filter material CEN standards EN136, EN140 and EN 405 provide respirator masks and EN 149 and EN 143 provide filter recommendations

Thermal hazards None known

8.2.3 Environmental Exposure Controls See sections 6,7,12,13

9. 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>Slightly viscous liquid</td>
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<tr>
<td>Colour</td>
<td>Brown</td>
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<tr>
<td>Odour</td>
<td>Slightly pungent</td>
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<tr>
<td>Odour Threshold (ppm)</td>
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<tr>
<td>pH (Value)</td>
<td>1</td>
</tr>
<tr>
<td>Melting Point / Freezing Point</td>
<td>No data available for melting point; Freezing &lt;0</td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash 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>
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<tr>
<td>Explosive limit ranges.</td>
<td>No data available</td>
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<tr>
<td>Vapour Pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour Density (Air=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Density (g/ml)</td>
<td>1.16 +/- 0.02 (20°C)</td>
</tr>
<tr>
<td>Solubility (Water)</td>
<td>Soluble</td>
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<tr>
<td>Solubility (Other)</td>
<td>No data available</td>
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<tr>
<td>Partition Coefficient</td>
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<tr>
<td>Auto Ignition Temperature</td>
<td>No data available</td>
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<tr>
<td>Decomposition Temperature</td>
<td>No data available</td>
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<tr>
<td>Viscosity (mPa.s)</td>
<td>No data available</td>
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<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No data available</td>
</tr>
</tbody>
</table>

9.2 Other information

None
10. SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity
This product reacts with many alkali compounds.

10.2 Chemical stability
Stable under normal conditions.

10.3 Possibility of hazardous reactions
See 10.5

10.4 Conditions to avoid
Direct sunlight and excessive heat.

10.5 Incompatible materials
Alkalis, chlorine-based products and oxidisers. Reacts violently with alkalis.

10.6 Hazardous Decomposition Product(s)
Hazardous decomposition products are not expected to form during normal storage. Thermal decomposition is dependent on conditions. A complex mixture of airborne solids, liquids and gases including phosphorous will be evolved when this material undergoes combustion or thermal degradation.

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.2 Mixtures
Acute toxicity No data available
Irritation No data available
Corrosivity No data available
Sensitisation No data available
Repeated dose toxicity No data available
Carcinogenicity No data available
Mutagenicity No data available
Toxicity for reproduction No data available

11.2 Other information
None

12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
Not expected to inhibit aerobic and anaerobic activity.

12.3 Bioaccumulative potential
Not expected to bioaccumulate.

12.4 Mobility in soil
No data available

12.5 Results of PBT and VPVB assessment
No PBT or VPVB Components

12.6 Other adverse effects
None

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Do not burn, or use a cutting torch on, the empty drum.

Dispose of in accordance with the European Directives on waste and hazardous waste. Waste must be classified and labelled prior to recycling or disposal. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

13.2 Additional Information
None
14. SECTION 14: TRANSPORT INFORMATION

14.1 Land transport (ADR/RID)
UN number 3264
Proper Shipping Name Corrosive Liquid, Acidic, Inorganic, N.O.S (sulphuric and phosphoric acid solution)
Transport hazard class(es) 8
Packing Group III
Environmental hazards
Special precautions for user

14.2 Sea transport (IMDG)
UN number 3264
Proper Shipping Name Corrosive Liquid, Acidic, Inorganic, N.O.S (sulphuric and phosphoric acid solution)
Transport hazard class(es) 8
Packing Group III
Marine Pollutant No
Special precautions for user Not applicable.

14.3 Air transport (ICAO/IATA)
UN number 3264
Proper Shipping Name Corrosive Liquid, Acidic, Inorganic, N.O.S (sulphuric and phosphoric acid solution)
Transport hazard class(es) 8
Packing Group III
Environmental hazards No
Special precautions for user Not applicable

14.4 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable

15. SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture or substance or mixture
1907/2006 – REACH
1272/2008 – CLP
67/548/EEC – DSD
199/45/EC – DPD
648/2004/EC-Detergents Directive
98/8/EC -BPD

15.1.1 EU regulations
Authorisations and/or restrictions on use Refer to EU regulation for details of any actions or restrictions by the above regulations or directives

15.1.2 National regulations
Refer to national regulation for details of any actions or restrictions by the above regulations or directives

15.2 Chemical Safety Assessment
A Chemical Safety Assessment has not been carried out for this mixture.
16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

**LEGEND**

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LTEL</td>
<td>Long Term Exposure Limit</td>
</tr>
<tr>
<td>STEL</td>
<td>Short Term Exposure Limit</td>
</tr>
<tr>
<td>STOT</td>
<td>Specific Target Organ Toxicity</td>
</tr>
<tr>
<td>DNEL</td>
<td>Derived No Effect Level</td>
</tr>
<tr>
<td>PNEL</td>
<td>Predicted No Effect Concentration</td>
</tr>
<tr>
<td>RCP</td>
<td>Reciprocal Calculation Procedure</td>
</tr>
</tbody>
</table>

**References:** Sources of information used in preparing this SDS included one or more of the following: results from in-house or supplier toxicology studies; publications from trade associations; ECHA publications; EU guidelines and other sources as appropriate

**Risk Phrases and Safety Phrases**

R20/21: Harmful by inhalation and in direct contact with skin.
R22: Harmful if swallowed.
R34: Causes burns.
R35: Causes severe burns.
R41: Risk of serious damage to eyes.
R50: Very toxic to aquatic organisms.

S2: Keep out of the reach of children.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28: In case of contact with skin wash immediately with plenty of soap and water.
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.
S50: Do not mix with dairy hypochlorite or other chlorine based products.
S51: Use only in well ventilated areas.
S61: Avoid release to the environment. Refer to special instructions/ Safety data sheets
S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

**Hazard statement(s) and Precautionary statement(s)**

H302: Harmful if swallowed.
H312: Harmful in contact with skin.
H314: Causes severe skin burns and eye damage.
H318: Causes serious eye damage.
H332: harmful if inhaled.
H400: Very toxic to aquatic life.

P102: Keep out of reach of children.
P260: Do not breathe dust/fume/gas/mist/vapours/spray.
P264: Wash skin thoroughly after handling.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P330 + P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P363: Wash contaminated clothing before reuse.
P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P310: Immediately call a POISON CENTRE or doctor/physician.
P305+P351+P338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P501: Dispose of contents/container to: hazardous waste site.

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**Cleanline BT Iodine**

Progiene is a brand of [NETTEX](#)

A division of [Rumenco](#)

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Date: 12 May 2014
Revision 1.0
Additional Information

This Safety Data Sheet has been produced by d5 Consulting Limited on behalf of Nettex, a division of Rumenco Limited, based on information supplied by the formulators of the product and is believed to be accurate and given in good faith, but it is for the users to satisfy themselves of the suitability of the product for their own particular purpose. d5 Consulting Limited and Nettex, a division of Rumenco Limited, shall not be held liable for any damage resulting from handling or from contact with the above product. Nettex, Rumenco Limited and d5 Consulting Limited give no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law.