


## SAFETY DATA SHEET

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH) & 1272/2008 (CLP)

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

|  |   |
|--|---|
| <b>1.1 Product identifier</b>  |   |
| Product Name   | Progiene BT Acid  |
| Product Code(s)  | Not applicable  |
| <b>1.2 Relevant identified uses of the substance or mixture and uses advised against</b> |   |
| Identified use(s)  | A specially formulated Phosphoric Acid/Chlorhexidine-based ice-bank tank cleaner for the removal of fat and protein deposits in automated systems.<br>Product is for professional use only.<br>Must not be used by persons under the age of 18, except when adult supervision is available. |
| Uses advised against   | None  |
| <b>1.3 Details of the supplier of the Safety Data Sheet</b>                              |   |
| Company Identification   | Progiene Dairy Hygiene<br>A division of Rumenco,<br>Rumenco Limited,<br>Stretton House,<br>Derby Road,<br>Burton on Trent,<br>Staffordshire<br>DE13 0DW<br>+44 (0) 1283 524240<br>info@progiene-dairy.com   |
| Telephone  | +44 (0) 1283 524240   |
| E-Mail (competent person)  | info@progiene-dairy.com   |
| <b>1.4 Emergency telephone number</b>  |   |
| Emergency Phone No.  | +44 (0) 1283 524240 (09.00 – 17.00 GMT Monday - Friday)   |

### SECTION 2: HAZARDS IDENTIFICATION

|   |  |
|---|--|
| <b>2.1 Classification of the substance or mixture</b> |  |
| <b>2.1.1 Regulation (EC) No. 1272/2008 (CLP)</b>      | Skin Corrosion (Category 1B). Causes severe burns and eye damage.<br>Eye Damage (Category 1). Causes serious eye damage. |
| <b>2.2 Label elements</b>                             |  |
| <b>2.2.1 Label elements</b>                           | According to Regulation (EC) No. 1272/2008 (CLP)   |
| Hazard Pictogram                                      |                                      |
| Signal word(s)  | Danger   |
| Hazard statement(s)                                   | H314: Causes severe burns and eye damage.<br>H318: Causes serious eye damage.  |

Precautionary statement(s)

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

2.3 Other hazards

None

2.4 Additional Information

None

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

EC Classification No. 1272/2008

| Hazardous ingredient(s)   | %W/W      | Cas No.    | EC No.    | REACH Registration No. | Hazard pictogram(s) and Hazard statement(s) |
|---------------------------|-----------|------------|-----------|------------------------|---|
| Phosphoric Acid           | 25 - 35   | 7664-38-2  | 231-633-2 | 01-2119485924-24       | Skin Corr. 1B: H314                         |
| Chlorhexidine digluconate | 1.0 - 5.0 | 18472-51-0 | 242-354-0 | 01-2119946568-22       | Eye Dam.1: H318<br>Aquatic Chronic 1:H410   |

### 3.3 Additional Information

For full text of H/P phrases see section 16.

## SECTION 4: FIRST AID MEASURES



### 4.1 Description of first aid measures

|              |   |
|--------------|---|
| Inhalation   | If person inhales spray or mist move into fresh air, and if recovery is not rapid, seek medical attention.  |
| Skin Contact | Remove contaminated clothing. Wash affected area with plenty of soap and water. If in doubt or symptoms persist obtain medical attention. Launder clothing before re-use. |
| Eye Contact  | Immediately irrigate eye with plenty of water or eye-wash solution for 10 minutes. Obtain 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 pain and corrosive skin damage. May cause irritation to nose and throat. Damage to eyes including burning and tearing. May cause chemical burns to the nose and throat.

### 4.3 Indication of immediate medical attention and special treatment needed

Treat symptomatically.

## 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

When heated and in case of fire, harmful vapours/gases may be formed.

### 5.3 Advice for fire-fighters

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.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

|            |  |  |
|------------|--|--|
| <b>6.1</b> | <b>Personal precautions, protective equipment and emergency procedures</b> | 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. |
| <b>6.2</b> | <b>Environmental precautions</b>   | Do not allow to enter drains, sewers or watercourses.  |
| <b>6.3</b> | <b>Methods and material for containment and cleaning up</b>                | Adsorb spillages onto sand, earth or any suitable adsorbent material.  |
| <b>6.4</b> | <b>Reference to other sections</b>   | Section 1 for emergency contact. Section 8 for information on appropriate personal protective equipment.   |
| <b>6.5</b> | <b>Additional Information</b>  | None   |

## SECTION 7: HANDLING AND STORAGE

|            |   |  |
|------------|---|--|
| <b>7.1</b> | <b>Precautions for safe handling</b>                                | Avoid contact with skin and eyes. 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. Use product in accordance with good industrial practices for handling and storing of chemicals. Do not mix with other chemicals. |
| <b>7.2</b> | <b>Conditions for safe storage, including any incompatibilities</b> |  |
|            | Storage Temperature   | Store in a cool dry well-ventilated area out of direct sunlight. Protect from extremes of temperature.   |
|            | Storage Life  | 2 years.   |
|            | Incompatible materials  | Alkalis and oxidising materials.   |
| <b>7.3</b> | <b>Specific end use(s)</b>  | A specially formulated Phosphoric Acid/Chlorhexidine-based ice-bank tank cleaner for the removal of fat and protein deposits in automated systems.   |

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### 8.1.1 Occupational Exposure Limits

| SUBSTANCE.      | CAS No.   | LTEL (8 hr TWA ppm) | LTEL (8 hr TWA mg/m <sup>3</sup> ) | STEL (ppm) | STEL (mg/m <sup>3</sup> ) | Note: |
|-----------------|-----------|---------------------|------------------------------------|------------|---------------------------|-------|
| Phosphoric Acid | 7664-38-2 | -                   | 1                                  | -          | 2                         | EH40  |

8.1.2 Biological limit value Not established

8.1.3 PNECs and DNELs Not established

8.2.1 Appropriate engineering controls Not established

#### 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. 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

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

|  |  |
|--|--|
| Appearance                               | Liquid   |
| Colour                                   | Clear  |
| Odour                                    | None   |
| Odour Threshold (ppm)                    | No data available                                |
| pH (Value)                               | 1.0 approx.                                      |
| Melting Point (°C) / Freezing Point (°C) | No data available for melting point; Freezing <0 |
| Boiling point/boiling range (°C):        | No data available                                |
| Flash Point (°C)                         | No data available                                |
| Evaporation rate (Butyl Acetate = 1)     | No data available                                |
| Flammability (solid, gas)                | No data available                                |
| Explosive limit ranges.                  | No data available                                |
| Vapour Pressure (mm Hg)                  | No data available                                |
| Vapour Density (Air=1)                   | No data available                                |
| Density (g/ml)                           | 1.16 +/- 0.02 (20°C)                             |
| Solubility (Water)                       | Soluble  |
| Solubility (Other)                       | No data available                                |
| Partition Coefficient (n-Octanol/water)  | No data available                                |
| Auto Ignition Temperature (°C)           | No data available                                |
| Decomposition Temperature (°C)           | No data available                                |
| Viscosity (mPa.s)                        | No data available                                |
| Explosive properties                     | No data available                                |
| Oxidising properties                     | No data available                                |

### 9.2 Other information

None

## SECTION 10: STABILITY AND REACTIVITY

|  |   |
|--|---|
| <b>10.1 Reactivity</b>                         | The product reacts with many alkali compounds.  |
| <b>10.2 Chemical stability</b>                 | Stable under normal conditions.   |
| <b>10.3 Possibility of hazardous reactions</b> | Reacts violently with alkalis. Contact with metals may cause the formation of flammable hydrogen gas. |
| <b>10.4 Conditions to avoid</b>                | Direct sunlight and extremes of temperature.  |
| <b>10.5 Incompatible materials</b>             | Strong alkalis and oxidising materials.   |
| <b>10.6 Hazardous Decomposition Product(s)</b> | Noxious, toxic or corrosive vapours, may be released in a fire situation including nitrous gases.     |

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### 11.1.2 Mixtures

|                           |  |
|---------------------------|--|
| Acute toxicity            | No data available  |
| Irritation                | May cause severe irritation to mucous membranes and digestive tract. May cause nausea and stomach pains. May cause severe irritation to respiratory system and mucous membranes. |
| Corrosivity               | Causes severe burns to skin and eyes.  |
| 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


## SECTION 12: ECOLOGICAL INFORMATION

|  |   |
|--|---|
| <b>12.1 Toxicity</b>                           | Not regarded as dangerous for the environment.          |
| <b>12.2 Persistence and degradability</b>      | Not expected to inhibit aerobic and anaerobic activity. |
| <b>12.3 Bioaccumulative potential</b>          | Not expected to bioaccumulate.                          |
| <b>12.4 Mobility in soil</b>                   | No data available                                       |
| <b>12.5 Results of PBT and VPVB assessment</b> | No PBT or VPVB Components                               |
| <b>12.6 Other adverse effects</b>              | None  |

## SECTION 13: DISPOSAL CONSIDERATIONS

|                                     |   |
|-------------------------------------|---|
| <b>13.1 Waste treatment methods</b> | <p>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.</p> <p>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.</p> |
| <b>13.2 Additional Information</b>  | None  |

## SECTION 14: TRANSPORT INFORMATION

|   |   |
|---|---|
| <b>14.1 Land transport (ADR/RID)</b>  |   |
| UN number   | 3264  |
| Proper Shipping Name  | CORROSIVE LIQUID, ACIDIC, INORGANIC. N.O.S. (phosphoric acid solution)              |
| Transport hazard class(es)  | 8   |
| Packing Group   | II  |
| Hazard label(s)   |  |
| Environmental hazards   | No data   |
| Special precautions for user  | Not applicable.   |
| <b>14.2 Sea transport (IMDG)</b>  |   |
| UN number   | 3264  |
| Proper Shipping Name  | CORROSIVE LIQUID, ACIDIC, INORGANIC. N.O.S. (phosphoric acid solution)              |
| Transport hazard class(es)  | 8   |
| Packing Group   | II  |
| Marine Pollutant  | No data   |
| Special precautions for user  | Not applicable.   |
| <b>14.3 Air transport (ICAO/IATA)</b>   |   |
| UN number   | 3264  |
| Proper Shipping Name  | CORROSIVE LIQUID, ACIDIC, INORGANIC. N.O.S. (phosphoric acid solution)              |
| Transport hazard class(es)  | 8   |
| Packing Group   | II  |
| Environmental hazards   | No data   |
| Special precautions for user  | Not applicable  |
| <b>14.4 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable  |



## SECTION 15: REGULATORY INFORMATION

|  |   |
|--|---|
| <b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</b> | 1907/2006 – REACH<br>1272/2008 – CLP<br>648/2004/EC-Detergents Directive<br>Control of Substance Hazardous to Health (COSHH)<br>Dangerous Substances and Explosive Atmosphere regulations (DSEAR) |
| <b>15.1.1 EU regulations</b>   |   |
| Authorisations and/or restrictions on use  | Refer to EU regulation for details of any actions or restrictions by the above regulations or directives.   |
| <b>15.1.2 National regulations</b>   |   |
|  | Refer to national regulation for details of any actions or restrictions by the above regulations or directives.   |
| <b>15.2 Chemical Safety Assessment</b>   | A Chemical Safety Assessment has not been carried out for this mixture.   |

## SECTION 16: OTHER INFORMATION

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

### LEGEND

|      |                                   |
|------|-----------------------------------|
| LTEL | Long Term Exposure Limit          |
| STEL | Short Term Exposure Limit         |
| STOT | Specific Target Organ Toxicity    |
| DNEL | Derived No Effect Level           |
| PNEL | Predicted No Effect Concentration |
| RCP  | Reciprocal Calculation Procedure  |

**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

### Hazard statement(s) and Precautionary statement(s)

H314: Causes severe burns and eye damage.  
H318: Causes serious eye damage.  
H410: Very toxic to aquatic life with long lasting effects.

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.



#### **Additional Information**

This Safety Data Sheet has been produced by d5 Consulting Limited on behalf of Progiene Dairy Hygiene, 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 Progiene Dairy Hygiene, a division of Rumenco Limited, shall not be held liable for any damage resulting from handling or from contact with the above product. Progiene Dairy hygiene, 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.