



## 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

#### 1.1 Product identifier

|                 |                |
|-----------------|----------------|
| Product Name    | Cleanline PM   |
| Product Code(s) | Not applicable |

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

|                      |                                                                                                                                                                                                                                                                                                                                    |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Identified use(s)    | High strength phosphoric acid-based circulation cleaner suitable for the removal and prevention of scale deposits in milking equipment and bulk tanks in hard water areas using hot water.<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 | Do not mix with acids or any other chemical products.                                                                                                                                                                                                                                                                              |

#### 1.3 Details of the supplier of the Safety Data Sheet

|                           |                                                                                                                                                         |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 |
| Telephone                 | +44 (0) 1283 524240                                                                                                                                     |
| E-Mail (competent person) | <a href="mailto:info@progiene-dairy.com">info@progiene-dairy.com</a>                                                                                    |

#### 1.4 Emergency telephone number

|                     |                                                         |
|---------------------|---------------------------------------------------------|
| Emergency Phone No. | +44 (0) 1283 524240 (09.00 – 17.00 GMT Monday - Friday) |
|---------------------|---------------------------------------------------------|

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

#### 2.1.1 Regulation (EC) No. 1272/2008 (CLP)

Corrosive to metals (Category 1). May be corrosive to metals  
Skin Corrosion (Category 1B). Causes severe skin burns and eye damage.  
Serious eye damage/eye irritation (Category 1). Causes serious eye damage.

### 2.2 Label elements

#### 2.2.1 Label elements

According to Regulation (EC) No. 1272/2008 (CLP)

Hazard Pictogram



Signal word(s)

Danger

Hazard statement(s)

H290: May be corrosive to metals.  
H302: Harmful if swallowed.  
H314: Causes severe skin burns and eye damage.  
H319: Causes severe eye damage.

Precautionary statement(s)

P102: Keep out of reach of children.  
P234: Keep only in original packaging.  
P260: Do not breathe 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.  
P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305+P351+P338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.  
P310: Immediately call a POISON CENTRE or doctor/physician.  
P321: Specific treatment (see supplemental first aid instruction on this label).  
P390: Absorb spillage to prevent material damage.  
P405: Store locked up.  
P501: Dispose of contents/container to: hazardous waste site water/shower.

#### 2.3 Other hazards

Do not mix with alkalis or other chemical products.

#### 2.4 Additional Information

None stated

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

EC Classification No. 1272/2008

| Hazardous ingredient(s) | %W/W    | Cas No.   | EC No.    | REACH<br>Registration No. | Hazard<br>pictogram(s) and<br>Hazard<br>statement(s)                                             |
|-------------------------|---------|-----------|-----------|---------------------------|--------------------------------------------------------------------------------------------------|
| Phosphoric Acid         | 20 - 60 | 7664-38-2 | 231-633-2 | 01-2119485924-24          | Met Corr. 1 : H290<br>Acute tox. 4 (Oral) :<br>H302<br>Skin Corr. 1B : H314<br>Eye Dam. 1 : H318 |
| Sulphuric Acid          | 1 - 10  | 7664-93-9 | 231-639-5 | 01-2119458838-20          | Met Corr. 1 : H290<br>Skin Corr. 1A: H314                                                        |

### 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

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. Get immediate medical attention.  
Wash contaminated clothing before reuse.

Eye Contact

Speed is essential. 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

### 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.

## 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**                      May decompose in a fire giving off toxic fumes.

**5.3**                      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

## 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 stated

## 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

Storage Temperature                      Store between 0°C to 25°C. Keep out of direct sunlight.

Storage Life                      1 year.

Incompatible materials                      Alkalis, chlorine-based products and oxidisers.

**7.3 Specific end use(s)**                      High strength phosphoric acid-based circulation cleaner

suitable for the removal and prevention of scale deposits in milking equipment and bulk tanks in hard water areas using hot water.

## 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/m³) | STEL (ppm) | STEL (mg/m³) | Note: |
|-----------------|-----------|---------------------|-----------------------|------------|--------------|-------|
| Phosphoric Acid | 7664-38-2 | -                   | 1                     | -          | 2            | EH40  |
| Sulphuric Acid  | 7664-93-9 | -                   | 0.5                   | -          | 1.5          | 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                               | Clear Liquid                                     |
| Colour                                   | Slight pink                                      |
| Odour                                    | Odourless                                        |
| Odour Threshold (ppm)                    | No data available                                |
| pH (Value)                               | 2                                                |
| Melting Point (°C) / Freezing Point (°C) | No data available for melting point; Freezing <5 |
| 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

|                                         |                                                                                                                                                                                                                                                                                                     |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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. Contact with metals will cause the formation of flammable hydrogen gas.                                                                                                                                              |
| 10.6 Hazardous Decomposition Product(s) | Hazardous decomposition products are not expected to form during normal storage.<br>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. |

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### 11.1.2 Mixtures

|                           |                                             |
|---------------------------|---------------------------------------------|
| Acute toxicity            | No data available                           |
| Irritation                | Causes severe skin and eye burns.<br>pH 2.0 |
| Corrosivity               | Causes severe skin and eye burns.<br>pH 2.0 |
| 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 stated

## SECTION 12: ECOLOGICAL INFORMATION

|                                         |                                                                                                                                                          |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12.1 Toxicity                           | Although tests have not been performed on this product, it may affect the acidity (pH factor) in water with risk of harmful effects to aquatic organisms |
| 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 stated                                                                                                                                              |

## SECTION 13: DISPOSAL CONSIDERATIONS

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13.1 Waste treatment methods | <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> |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 13.2 Additional Information

None stated

## SECTION 14: TRANSPORT INFORMATION

### 14.1 Land transport (ADR/RID)

UN number

3264

Proper Shipping Name

Corrosive Liquid, Acidic, Inorganic, N.O.S (phosphoric acid and sulphuric acid solution)

Transport hazard class(es)

8

Packing Group

II

Hazard label(s)



Environmental hazards

No

### 14.2 Sea transport (IMDG)

UN number

3264

Proper Shipping Name

Corrosive Liquid, Acidic, Inorganic, N.O.S (phosphoric acid and sulphuric acid solution)

Transport hazard class(es)

8

Packing Group

II

Hazard label(s)



Marine Pollutant

No

### 14.3 Air transport (ICAO/IATA)

UN number

3264

Proper Shipping Name

Corrosive Liquid, Acidic, Inorganic, N.O.S (phosphoric acid and sulphuric acid solution)

Transport hazard class(es)

8

Packing Group

II

Hazard label(s)



Environmental hazards

No

### 14.4 Special precautions for user

#### Overland transport (ADR)

Classification code

C1

Special provisions

274

Limited quantities

5L

Excepted quantities

E1

Packing instructions

P001, IBC03, LP01, R001

Mixed packaging provisions

MP19

Portable tank & bulk container instructions

T7

|                                                   |                                                 |
|---------------------------------------------------|-------------------------------------------------|
| Portable tank & bulk container special provisions | TP1,TP28                                        |
| Tank Code                                         | L4BN                                            |
| Tank Special provisions                           | TU42                                            |
| Vehicle for tank carriage                         | AT                                              |
| Transport category                                | 3                                               |
| Special provisions for carriage – Packages        | V12                                             |
| Hazard identification number (Kemler number)      | 80                                              |
| Tunnel restriction code                           | E                                               |
| EAC code                                          | 2X                                              |
| App code                                          | B                                               |
| <b>Transport by sea (IMDG)</b>                    |                                                 |
| Special provisions                                | 223,274                                         |
| Limited quantities                                | 5L                                              |
| Excepted quantities                               | E1                                              |
| Packing instructions                              | P001, LP01                                      |
| IBC packing instructions                          | IBC03                                           |
| Tank instructions                                 | T7                                              |
| Tank special provisions                           | TP1, TP28                                       |
| EmS-No. (Fire)                                    | F-A                                             |
| EmS-No. (Spillage)                                | S-B                                             |
| Stowage category                                  | A                                               |
| Stowage & handling                                | SW2                                             |
| Segregation                                       | SGG1, Sg36, SG49                                |
| Properties and observations                       | Causes burns to skin, eyes and mucous membranes |
| <b>Air Transport (IATA)</b>                       |                                                 |
| PCA excepted quantities                           | E1                                              |
| PCA limited quantities                            | Y841                                            |
| PCA limited quantity max net quantity             | 1L                                              |
| PCA packing instructions                          | 852                                             |
| PCA net max quantity                              | 5L                                              |
| CAO packing instructions                          | 856                                             |
| CAO max net quantity                              | 60L                                             |
| Special provisions                                | A3, A803                                        |
| ERG code                                          | 8L                                              |
| <b>Inland waterways transport (ADN)</b>           |                                                 |
| Classification code                               | C1                                              |
| Special provisions                                | 274                                             |
| Limited quantities                                | 5L                                              |
| Excepted quantities                               | E1                                              |
| Equipment required                                | PP, EP                                          |
| Number of blue cones/lights                       | 0                                               |
| <b>Rail Transport (RID)</b>                       |                                                 |
| Classification code                               | C1                                              |
| Special provisions                                | 274                                             |
| Limited quantities                                | 5L                                              |
| Excepted quantities                               | E1                                              |
| Packing instructions                              | P001, IBC03, LP01, R001                         |
| Mixed packaging provisions                        | MP19                                            |
| Portable tank & bulk container instructions       | T7                                              |
| Portable tank & bulk container special provisions | TP1, TP28                                       |
| Tank codes for RID tanks                          | L4BN                                            |
| Special provisions for RID tanks                  | TU42                                            |
| Transport category                                | 3                                               |
| Special provisions for carriage – Packages        | W12                                             |

Colis express ( express parcels)  
Hazard identification number

CE8  
80

**14.5 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable

## SECTION 15: REGULATORY INFORMATION

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

1907/2006 – REACH  
1272/2008 – CLP  
648/2004/EC-Detergents Directive  
Control of Substance Hazardous to Health (COSHH)  
Dangerous Substances and Explosive Atmosphere regulations (DSEAR)

**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.

## 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)

H290: May be corrosive to metals  
H302: Harmful if swallowed.  
H314: Causes severe skin burns and eye damage.  
H318: Causes serious eye damage.

P102: Keep out of reach of children.  
P234: Keep only in original packaging.  
P260: Do not breathe 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.  
P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305+P351+P338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.  
P310: Immediately call a POISON CENTRE or doctor/physician.  
P321: Specific treatment (see supplemental first aid instruction on this label).  
P390: Absorb spillage to prevent material damage.  
P405: Store locked up.  
P501: Dispose of contents/container to: hazardous waste site

### Additional Information

Revision 1.1 was issued on 24 January 2015 to take account of a formulation change.  
Revision 1.2 was issued on 29 January 2018 to update contact details and remove redundant CHIP data.  
Revision 1.3 was issued on 3 June 2023 to update Transport Information and Hazard 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.

