


SAFETY DATA SHEET


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

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

1.1 Product identifier	Product Name	Puraclean Clusterflush
	Product Code(s)	Not applicable
1.2 Relevant identified uses of the substance or mixture and uses advised against	Identified use(s)	A specially formulated Lactic Acid/Chlorhexidine solution for use as an aid in the cleaning of Milk Clusters for optimum udder hygiene. 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	None
1.3 Details of the supplier of the Safety Data Sheet	Company Identification	Progiene Dairy Hygiene A division of Rumenco, Rumenco Limited, Stretton House, Derby Road, Burton on Trent, Staffordshire DE13 0DW
	Telephone	+44 (0) 1283 524240
	E-Mail (competent person)	info@progiene-dairy.com
1.4 Emergency telephone number	Emergency Phone No.	+44 (0) 1283 524240 (09.00 – 17.00 GMT Monday - Friday)

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	
2.1.1 Regulation (EC) No. 1272/2008 (CLP)	Skin Irritation (Category 2). Causes skin irritation.
2.1.2 Directive 67/548/EEC & Directive 1999/45/EC	Eye Damage (Category 1). Causes serious eye damage. Xi, Irritating to skin. Xn, Risk of serious damage to eyes.
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)
	H315: Causes skin irritation. H318: Causes serious eye damage.

	<p>Precautionary statement(s)</p> <p>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 According to Directive 67/548/EEC & Directive 1999/45/EC</p>
<p>2.2.2 Label elements Hazard Symbol</p>	
<p>Risk Phrases</p> <p>Safety Phrases</p>	<p>R38: Irritating to skin. R41: Risk of serious damage to eyes. 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 acids. 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.</p>
<p>2.3 Other hazards 2.4 Additional Information</p>	<p>None None</p>

3. 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)
Lactic Acid	<15.0	79-33-4	201-196-2	01-2119474164-39	Skin Irrit. 2: H315 Eye Dam. 1: H318
Chlorhexidine digluconate	<5.0	18472-51-0	242-354-0	Not available	Eye Dam.1: H318 Aquatic Acute 1:H400

EC Classification No. 67/548/EEC

Hazardous ingredient(s)	%W/W	Cas No.	EC No.	REACH Registration No.	EC Classification and Risk Phrases
Lactic Acid	<15.0	79-33-4	201-196-2	01-2119474164-39	Xi, R38 R41
Chlorhexidine digluconate	<5.0	18472-51-0	242-354-0	Not available	Xi, R41 N, R50

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

If person inhales to spray 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. Immediately irrigate eye with plenty of water or eye-wash solution for 10 minutes. If irritation persists obtain medical attention.

Eye Contact

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

Prolonged contact may cause dryness and cracking to the skin. May cause irritation to nose and throat. Repeated and/or long term contact may lead to persistent effects in the eyes. May cause nausea. No toxic effect is expected.

4.3 Indication of immediate medical attention and special treatment needed

Treat symptomatically.

5. SECTION 5: FIRE-FIGHTING MEASURES

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|--|---|
| <p>5.1 Extinguishing Media
Suitable Extinguishing Media</p> <p>Unsuitable Extinguishing Media</p> | <p>.</p> <p>Extinguish with dry chemical, foam, water spray, or carbon dioxide.
Straight streams of water</p> |
| <p>5.2 Special hazards arising from the substance or mixture</p> | <p>When heated and in case of fire, harmful vapours/gases may be formed.</p> |
| <p>5.3 Advice for fire-fighters</p> | <p>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</p> |

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

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

7. SECTION 7: HANDLING AND STORAGE

- | | |
|---|--|
| <p>7.1 Precautions for safe handling</p> | <p>No specific usage precautions required. Use product in accordance with good industrial practices for handling and storing of chemicals. Avoid prolonged contact with skin and eyes.</p> |
| <p>7.2 Conditions for safe storage, including any incompatibilities</p> <p>Storage Temperature</p> <p>Storage Life</p> <p>Incompatible materials</p> | <p>Store in a cool dry well-ventilated area out of direct sunlight. Protect from extremes of temperature.
2 years.
Oxidising materials.</p> |
| <p>7.3 Specific end use(s)</p> | <p>A specially formulated Lactic Acid/Chlorhexidine solution for use as an aid in the cleaning of Milk Clusters for optimum udder hygiene.</p> |

8. 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 ³)	STEL (ppm)	STEL (mg/m ³)	Note:
-	-	-	-	-	-	-

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. 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



Respiratory protection



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

Appearance	Liquid
Colour	Clear
Odour	None
Odour Threshold (ppm)	No data available
pH (Value)	4.5 – 5.5
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)	1.02 +/- 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

10. SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	No specific hazards associated with this product.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	No specific reactions identified.
10.4 Conditions to avoid	Direct sunlight and extremes of temperature.
10.5 Incompatible materials	Oxidising materials.
10.6 Hazardous Decomposition Product(s)	No hazardous decomposition products identified.

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.2 Mixtures

Acute toxicity	No data available
Irritation	May cause irritation and soreness to eyes. Prolonged contact may cause drying and cracking of skin. May cause irritation to mucous membranes and digestive tract. May cause nausea and stomach pains.
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	Not regarded as dangerous for the environment.
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	Not regulated for transport
Proper Shipping Name	-
Transport hazard class(es)	-
Packing Group	-
Hazard label(s)	None
Environmental hazards	None
Special precautions for user	Not applicable.
14.2 Sea transport (IMDG)	
UN number	Not regulated for transport
Proper Shipping Name	-
Transport hazard class(es)	-
Packing Group	-
Marine Pollutant	No
Special precautions for user	Not applicable.
14.3 Air transport (ICAO/IATA)	
UN number	Not regulated for transport
Proper Shipping Name	-
Transport hazard class(es)	-
Packing Group	-
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	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

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

Risk Phrases and Safety Phrases

R38: Irritating to skin.
 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 acids.
 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)

H315: Causes skin irritation.
 H318: Causes serious eye damage.
 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.

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 Nettex, 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.