



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 Puraclean Concentrate

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 solution for use as an aid in cleaning and disinfection of Milk Clusters/Brushes 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 Do not mix with alkalis or chlorinated products

1.3 Details of the supplier of the Safety Data Sheet

Company Identification Progiene Dairy Hygiene
A division of Rumenco,
Rumenco Limited,
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Derby Road,
Burton on Trent,
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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)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

Acute Toxicity (Oral) (Category 4). Harmful if swallowed.
 Skin Corrosion (Category 1A). Causes severe skin burns and eye damage.
 Serious eye damage/eye irritation (Category 1). Causes serious eye damage.
 Specific Target Organ Toxicity – Repeated Exposure (Category 2). May cause damage to organs through prolonged or repeated exposure.
 Aquatic Acute (Category 1). Very toxic to aquatic life

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)

H302: Harmful if swallowed.
 H314: Causes severe skin burns and eye damage.
 H373: May cause damage to organs through prolonged or repeated exposure
 H400: Very toxic to aquatic life

Precautionary statement(s)

P102: Keep out of reach of children.
 P260: Do not breathe fume/gas/mist/vapours/spray.
 P264: Wash skin thoroughly after handling.
 P270: Do not eat, drink or smoke when using this product.
 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.
P314: Get medical advice/attention if you feel unwell.
P321: Specific treatment (see supplemental first aid instruction on this label).
P330: Rinse mouth.
P390: Absorb spillage to prevent material damage.
P405: Store locked up.
P501: Dispose of contents/container to: hazardous waste site

2.3 Other hazards

Do not mix with 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 Registration No.	Hazard pictogram(s) and Hazard statement(s)
N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine	<40	Not available	Not available	Not available	Acute Tox. 3 (Oral) : H301 Skin Corr. 1A: H314 STOT RE 2: H373 Aquatic Chronic 1: H410
Alkyl Dimethyl Amine Oxide	<10	Not available	Not available	Not available	Skin Irrit. 2: H315 Eye Dam 1 : H318 Aquatic Acute 1 : H400 Aquatic Chronic 2 : H411
Alcohol Ethoxylate 90%	<5	160901=19-9	931-954-4	Not available	Acute Tox. 4 (Oral) : H302 Eye Dam 1 : H318 Aquatic Chronic 3 : H412

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	None under normal use.
Skin Contact	Remove contaminated clothing and shoes immediately and wash affected skin with plenty of soap and water. If in doubt or symptom persist, obtain medical attention. Wash contaminated clothing before reuse.
Eye Contact	Immediately irrigate eye with plenty of water or eye wash solution for at least 15 minutes. Get immediate medical attention.
Ingestion	Do not induce vomiting. Drink plenty of water. Get medical attention if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation: None under normal use.
Symptoms/effects after skin contact: None under normal conditions..
Symptoms/effects after eye contact: May cause irritation of eyes. Prolonged use may cause redness..
Symptoms/effects after ingestion: None under normal use.

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	Use extinguishing media suitable for surrounding fire or the cause of fire. Keep containers cool by spraying with water.
Unsuitable Extinguishing Media	None stated.

5.2 Special hazards arising from the substance or mixture

Fire hazard	Not flammable.
Reactivity in case of fire	Thermal decomposition or combustion products may include irritating gases or vapours.

5.3 Advice for fire-fighters

Protection during firefighting	Avoid breathing fire gases or vapours. Fire-fighters should use protective clothing to prevent contact with skin and eyes, and in enclosed spaces, self-contained breathing apparatus (SCBA).
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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment

Avoid contact with spilled material. Wear suitable protective

	and emergency procedures	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 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. Handle carefully. Wear protective gloves/clothing and eye/face protection.
7.2	Conditions for safe storage, including any incompatibilities	
	Storage Temperature	Store only in the original container in a cool, well-ventilated place away from oxidising materials..
	Storage Life	1 year.
	Incompatible materials	Oxidising materials.
7.3	Specific end use(s)	A specially formulated solution for use as an aid in cleaning and disinfection of Milk Clusters/Brushes for optimum udder hygiene.

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

Keep in a cool place. Emergency eye-wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

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	Green
Odour	No data available
Odour Threshold (ppm)	No data available
pH (Value)	11 – 13
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)	0.99 – 1.03 (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, dynamic	No data available
Explosive properties	No data available
Oxidising properties	No data available

9.2 Other information

None stated

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	This product is non-reactive under normal conditions of use, storage and transport.
10.2 Chemical stability	Stable under normal storage conditions.
10.3 Possibility of hazardous reactions	No dangerous reactions known under normal conditions of use.
10.4 Conditions to avoid	Direct sunlight and excessive heat or cold..
10.5 Incompatible materials	Oxidisers. .
10.6 Hazardous Decomposition Product(s)	Hazardous decomposition products are not expected to form during normal storage.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.2 Mixtures

Acute toxicity	Not classified
Irritation	Causes severe skin and eye burns. pH 11 - 13
Corrosivity	Causes severe skin and eye burns. pH 11 - 13
Sensitisation	No data available
Repeated dose toxicity	May cause damage to organs through prolonged or repeated exposure.
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	Very toxic to aquatic life.
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	Soluble in water
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

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 stated

SECTION 14: TRANSPORT INFORMATION

14.1 Land transport (ADR/RID)

UN number
Proper Shipping Name
Transport hazard class(es)
Packing Group
Hazard label(s)

1760
CORROSIVE LIQUID, N.O.S.
8
III



Dangerous for the environment
Marine pollutant

Yes
Yes

14.2 Sea transport (IMDG)

UN number
Proper Shipping Name
Transport hazard class(es)
Packing Group
Hazard label(s)

1760
CORROSIVE LIQUID, N.O.S.
8
III



Dangerous for the environment
Marine pollutant

Yes
Yes

14.3 Air transport (IATA/ADN)

UN number
Proper Shipping Name
Transport hazard class(es)
Packing Group
Hazard label(s)

1760
CORROSIVE LIQUID, N.O.S.
8
III



Dangerous for the environment	Yes
Marine pollutant	Yes

14.4 Special precautions for user

Overland transport (ADR)

Classification code	C9
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

Transport by sea (IMDG)

Special provisions	223, 274
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
Properties and observations	Causes burns to skin, eyes and mucous membranes

Air Transport (IATA)

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

Inland waterways transport (ADN)

Classification code	C9
Special provisions	274
Limited quantities	5L
Excepted quantities	E1
Carriage permitted	T
Equipment required	PP, EP
Number of blue cones/lights	0

Rail Transport (RID)



Classification code	C1
Special provisions	274
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
Transport category	3
Special provisions for carriage – Packages	W12
Colis express (express parcels)	CE8
Hazard identification number	80

- 14.5 Transport in bulk according to Annex ii of Marpol 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)

H301: Toxic if swallowed.
H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H315: Causes skin irritation.
H318: Causes serious eye damage.
H373: May cause damage to organs through prolonged or repeated exposure.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long-lasting effects.
H411: Toxic to aquatic life with long lasting effects.
H412: Harmful to aquatic life with long lasting effects.

P102: Keep out of reach of children.
P260: Do not breathe fume/gas/mist/vapours/spray.
P264: Wash skin thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
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.
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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.
P314: Get medical advice/attention if you feel unwell.
P321: Specific treatment (see supplemental first aid instruction on this label).
P330: Rinse mouth.
P390: Absorb spillage to prevent material damage.
P405: Store locked up.
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.