




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(s)	Cleanline Chlor
Product Code(s)	Not applicable
1.2 Relevant identified uses of the substance or mixture and uses advised against	
Identified use(s)	Sodium hypochlorite for general sanitization of dairy equipment. 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 acids or any other chemical products.
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)

SECTION 2: HAZARDS IDENTIFICATION

2.1	Classification of the substance or mixture	
2.1.1	Regulation (EC) No. 1272/2008 (CLP)	<p>Skin Corrosion (Category 1B). Causes severe skin burns and eye damage.</p> <p>Aquatic Acute (Category 1). Very toxic to aquatic life.</p>
2.2	Label elements	
2.2.1	Label elements	<p>According to Regulation (EC) No. 1272/2008 (CLP)</p> <p>Hazard Pictogram</p> <div style="text-align: center;">  </div>
	Signal word(s)	Danger
	Hazard statement(s)	<p>H290: May be corrosive to metals</p> <p>H314: Causes severe skin burns and eye damage.</p> <p>H400: Very toxic to aquatic life.</p> <p>EUH031: Contact with acids liberates toxic chlorine gas.</p>
	Precautionary statement(s)	<p>P102: Keep out of reach of children.</p> <p>P260: Do not breathe dust/fume/gas/mist/vapours/spray.</p> <p>P264: Wash skin thoroughly after handling.</p> <p>P273: Avoid release to the environment.</p> <p>P280: Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P301 + P330 + P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.</p> <p>P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>P363: Wash contaminated clothing before reuse.</p> <p>P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <p>P310: Immediately call a POISON CENTRE or doctor/physician.</p> <p>P305+P351+P338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.</p> <p>P501: Dispose of contents/container to: hazardous waste site</p>
2.3	Other hazards	Do not mix with acids or other chemical products.
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)
Sodium Hypochlorite solution 14/15% Cl active	5 - 15	7681-52-9	231-668-3	01-2119488154-34	Skin Corr. 1B: H314 Aquatic Acute 1:H400 EUH 031
Sodium Hydroxide	0 - 1	1310-73-2	215-185-5	01-2119457892-27	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. 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

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	Toxic to aquatic life.
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	Absorb 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

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	Acids, aluminium, phosphorous, tin/tin oxides and zinc.
7.3 Specific end use(s)	Sodium hypochlorite for general sanitisation of dairy equipment.

PROGIENE

dairy 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:
Sodium Hydroxide	1310-73-2	-	-	-	2	EH40
Chlorine	7782-50-5	-	-	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

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	Green/yellow
Odour	Chlorine
Odour Threshold (ppm)	No data available
pH (Value)	12 (1% w/w solution)
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)	1.15 +/- 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	Stable under normal conditions of use.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	See 10.5
10.4 Conditions to avoid	Direct sunlight.
10.5 Incompatible materials	Acids, aluminium, brass, galvanised steel, magnesium, tin/tin oxides and zinc.
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 chlorine gas will be evolved when this material undergoes combustion or thermal or oxidative degradation.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.2 Mixtures

Acute toxicity	There is no information regarding the mixture but one of the components, Sodium Hypochlorite, has been assessed as follows: LD50, oral, rat 3-5g/kg LD50, dermal, rabbit >2g/kg.
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

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

There is no information regarding the mixture but one of the components, Sodium Hypochlorite, has been assessed as follows:
LC50, bluegill sunfish, 2.9mg/l, 96 hours
LC50, pimephales promelas, 1.4mg/l, 96 hours
LC50, oncorhynchus mykiss, 0.9mg/l, 30 minutes

12.2 Persistence and degradability

No data available.

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

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

SECTION 14: TRANSPORT INFORMATION

- 14.1 Land transport (ADR/RID)**
- UN number 1791
 Proper Shipping Name Sodium Hypochlorite
 Transport hazard class(es) 8
 Packing Group III
 Hazard label(s)
- 
- Environmental hazards Marine pollutant
 Special precautions for user Not applicable.
- 14.2 Sea transport (IMDG)**
- UN number 1791
 Proper Shipping Name Sodium Hypochlorite
 Transport hazard class(es) 8
 Packing Group III
 Marine Pollutant Yes
 Special precautions for user Not applicable.
- 14.3 Air transport (ICAO/IATA)**
- UN number 1791
 Proper Shipping Name Sodium Hypochlorite
 Transport hazard class(es) 8
 Packing Group III
 Environmental hazards Marine pollutant.
 Special precautions for user Not applicable
- 14.4 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	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.
H314: Causes severe skin burns and eye damage.
H400: Very toxic to aquatic life.
EUH031: Contact with acids liberates toxic chlorine gas.

P102: Keep out of reach of children.
P260: Do not breathe dust/fume/gas/mist/vapours/spray.
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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

Revision 1.1 was issued on 5 May 2014 to amend the range of ingredient Sodium Hypochlorite from 8–15 % to 5-15%

Revision 1.2 was issued on 29 January 2018 to update contact details and remove redundant CHIP data.

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.