


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(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 sanitisation 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.
Do not mix with acids or any other chemical products.
- Uses advised against
1.3 Details of the supplier of the Safety Data Sheet
Company Identification Nettex
Units 2A
Hoo Industrial Estate
Hoo
Rochester
Kent
ME3 9LB
United Kingdom
Telephone +44 (0) 808 1781010
E-Mail (competent person) info@progiene-dairy.com
- 1.4 Emergency telephone number**
Emergency Phone No. +44 (0) 1634 257150 (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 Corrosion (Category 1B). Causes severe skin burns and eye damage.
Aquatic Acute (Category 1). Very toxic to aquatic life.
- 2.1.2 Directive 67/548/EEC & Directive 1999/45/EC** Corrosive. Causes severe burns.
Danger to the environment. Very toxic to aquatic organisms.
- 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
H314: Causes severe skin burns and eye damage.
H400: Very toxic to aquatic life.
EUH031: Contact with acids liberates toxic chlorine gas.
- Precautionary statement(s) P102: Keep out of reach of children.

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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

2.2.2 Label elements
 Hazard Symbol



Risk Phrases

R31: Contact with acids liberates toxic chlorine gas.
 R34: Causes burns.

Safety Phrases

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.
 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.
 Do not mix with acids or other chemical products.
 None

2.3 Other hazards
2.4 Additional Information

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)
Sodium Hypochlorite solution 14/15% Cl active	8 - 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

EC Classification No. 67/548/EEC

Hazardous ingredient(s)	%W/W	Cas No.	EC No.	REACH Registration No.	EC Classification and Risk Phrases
Sodium Hypochlorite solution 14/15% Cl active	8 - 15	7681-52-9	231-668-3	01-2119488154-34	C, R34 N, R50 R31
Sodium Hydroxide	0 - 1	1310-73-2	215-185-5	01-2119457892-27	C, R35

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

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.

5. SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

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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

6. 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

7. 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	Store between 0°C to 25°C. Keep out of direct sunlight. 1 year.
Storage Temperature Storage Life Incompatible materials	Acids, aluminium, phosphorous, tin/tin oxides and zinc.
7.3 Specific end use(s)	Sodium hypochlorite for general sanitisation of dairy equipment

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	STEL (ppm)	STEL (mg/m ³)	Note:
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			mg/m ³)			
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. Nitrile, 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.



Respiratory protection

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

9. 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

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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

10. 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.

11. 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

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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	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 No data available.
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

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	1791
Proper Shipping Name	Sodium Hypochlorite
Transport hazard class(es)	8
Packing Group	III
Hazard label(s)	



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Environmental hazards
Special precautions for user

Marine pollutant
Not applicable.

14.2 Sea transport (IMDG)

UN number
Proper Shipping Name
Transport hazard class(es)
Packing Group
Marine Pollutant
Special precautions for user

1791
Sodium Hypochlorite
8
III
Yes
Not applicable.

14.3 Air transport (ICAO/IATA)

UN number
Proper Shipping Name
Transport hazard class(es)
Packing Group
Environmental hazards
Special precautions for user

1791
Sodium Hypochlorite
8
III
Marine pollutant.
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 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

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Risk Phrases and Safety Phrases

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R34: Causes burns.

R35: Causes severe burns.

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.

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)

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.

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.

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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

This Safety Data Sheet has been produced by d5 Consulting Limited on behalf of Nettex, 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. Nettex, 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.

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