SECTION 1 : CHEMICAL PRODUCT AND COMPANY INFORMATION

SYNONYMS:
PROPER SHIPPING NAME: Sodium Hypochlorite (5% chlorine)
CAS NUMBER: **7681-52-9**
UN NUMBER: 1791
PRODUCT USE: Removal of protein deposits from farm milk vat surfaces

SUPPLIER: CP Solutions LP, 63b Allens Road, East Tamaki, 2013, Auckland
Telephone: +64 9 271 5290

24 H Emergency Contact: **0800 243 622 (24 Hours)**
Website: www.agmax.co.nz

Email: info@agmax.co.nz

SECTION 2 : HAZARDS IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE
Classified as Hazardous according to the criteria of the New Zealand Hazardous Substances and New Organisms legislation and GHS 7th Edition.

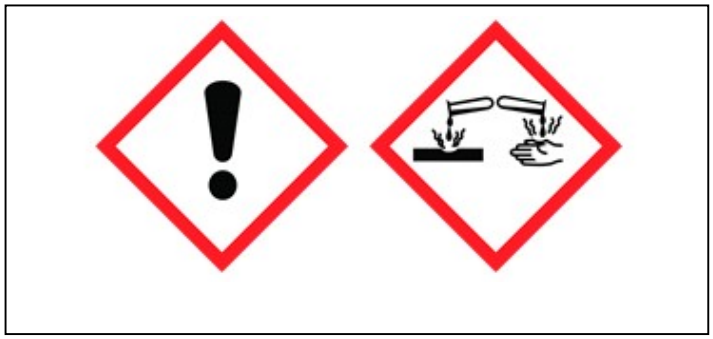
GHS Hazard Statements

Physical Hazards: Highly corrosive liquid.
Health Hazards: May be fatal if swallowed.
Causes serious eye and skin damage .
Environmental Hazards: Toxic to aquatic life. May cause long-lasting harmful effects.
Harmful to terrestrial vertebrates.

HSNO Classification and Hazard Statements

HSNO Approval: HSR002526

6.1E, 8.1A, 8.2C, 8.3A



6.1E Acutely Toxic Substance

H303 May be harmful if swallowed.

H313 May be harmful in contact with skin.

H333 May be harmful if inhaled.

8.1A Corrosive to Metals (High Hazard)

H290 May be corrosive to metals

8.2C Corrosive to Derma Tissue (Medium Hazard)

H314 Causes severe skin burns and eye damage

8.3A Corrosive to Ocular Tissue (High Hazard)

H318 Causes serious eye damage

Prevention Statements

P102 Keep out of reach of children

P103 Read label before use.

P234 Keep in original container.

P260 Do not breathe mist/spray.

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves, protective clothing and eye/face protection.

Response Statements

P101 If medical advice is needed, have product container or label at hand.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P304+P312 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.

P304+P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Drink plenty of water/milk, then drink vegetable oil or olive oil.

P303+P361+P353 IF ON SKIN (or hair): remove/take off immediately all contaminated clothing. Rinse skin with water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 Immediately call a POISON CENTER or doctor/physician.

P331 Do NOT induce vomiting.

P363 Wash contaminated clothing before reuse.

P390 Absorb spillage to prevent material damage.

Storage Statements

P405 Store locked up.

P406 Store in corrosive resistant (possibly stainless steel) container with a resistant liner.

Disposal Statements:

P501 Dispose of empty containers safely in accordance with local regulations.

SECTION 3 : COMPOSITION

Ingredient	CAS Number	Proportion
Water	7732-18-5	45 - 55%
Sodium Hypochlorite	7681-52-9	40 - 50%
Sodium Hydroxide	1310-73-2	<1%
Dodecyl dimethyl amine oxide	1643-20-5	<1%
Myristyl dimethyl amine oxide	3332-27-2	<1%

SECTION 4 : FIRST AID MEASURES

If medical advice is need, have product container or label on hand

Refer First Aid instructions on label

SWALLOWED
If Swallowed: Rinse mouth then give a glass or two of water or milk, DO NOT induce vomiting unless medical assistance is delayed by 15 minutes (take care to avoid patient inhaling stomach contents). If breathing stops start mouth to nose resuscitation. Arrange urgent transport to hospital. Immediately call POISON CENTRE 0800 764 766 (0800 POISON) or a doctor/physician.

EYE
If in Eyes: Wash eye with gently running water for at least thirty minutes, keeping eyelids apart and moving eye. Do not rub the eye. Cover with sterile dressing. Seek medical attention immediately. Immediately call a Poison Centre or doctor/physician.

SKIN
Skin Contact: Quickly remove contaminated clothing. Wash skin with large quantities of water. Seek medical attention. Immediately call a Poison Centre or doctor/physician. Wash contaminated clothing and shoes before reuse.

INHALED
If Inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Apply resuscitation if victim is not breathing. Do not use direct mouth-to-mouth method if victim ingested or inhaled the substance; use alternative respiratory method or proper respiratory device. Administer oxygen if breathing is difficult.

NOTES TO PHYSICIAN
Treat symptomatically. Can cause corneal burns, delayed pulmonary oedema may result. Ensure that attending medical personnel are aware of the identity and nature of the product(s) involved and take precautions to protect themselves. Treat symptomatically and supportively.

SECTION 5 : FIRE FIGHTING MEASURES

GENERAL MEASURES
If safe to do so, move undamaged containers from fire area. Cool containers with flooding quantities of water until well after fire is out. Avoid getting water inside containers.

FLAMMABILITY CONDITIONS
Non-combustible. Material does not burn.

EXTINGUISHING MEDIA
Use extinguishing media suitable for the surrounding fire. Use dry chemical, CO2, foam or water spray - Do NOT use water jets.

FIRE AND EXPLOSION HAZARSS
Containers may explode when heated. Contact with metals may evolve flammable hydrogen gas. Contact with moisture or water may generate sufficient heat to ignite combustible substances; spattering and boiling may occur.

HAZARDOUS PRODUCTS OF COMBUSTION
Fire or heat will produce irritating, toxic, and/or corrosive gases.

SPECIAL FIRE FIGHTING INSTRUCTIONS
Runoff from fire control or dilution water may be toxic and/or corrosive and pollute waterways.

PERSONAL PROTECTIVE EQUIPMENT
Wear self-contained breathing apparatus (SCBA) with a full face-piece, in positive pressure mode. Fully encapsulating, gas-tight suits should be worn for maximum protection. Structural firefighter's uniform is recommended for fire situations ONLY - it is NOT effective for spills.

FLASH POINT
No Data Available

LOWER EXPLOSION LIMIT
No Data Available

UPPER EXPLOSION LIMIT
NO Data Available

AUTO INGINTION TEMPERTAURE
No Data Available

HAZCHEM CODE
2X

SECTION 6 : ACCIDENTAL RELEASE MEASURES

General Response Procedure
Ventilate enclosed spaces before entering. ELIMINATE all ignition sources (no smoking, flares, sparks or flames). Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid contact with skin and eyes

Clean Up Procedures
Contain and absorb. Avoid contamination of waterways. Small quantities can be neutralized with citric acid provided the area is (can be) well ventilated and washed to drain with large quantities of water.
Electrical conductor - isolate power in case of spills.

Containment
Stop leak if safe to do so – Prevent entry into waterways, drains or confined areas. Dike and clean up all spills immediately.

Decontamination
Small spills or residues can be flushed with plenty of water.

Environmental Precautionary Measures
Drains for storage or work areas should have retention basins for pH adjustments and dilution of spills before discharge or disposal of material.

Evacuation Criteria
Spill or leak area should be isolated immediately. Keep unauthorised personnel away. Keep upwind and to higher ground.

Personal Precautionary Measures
Wear SCBA and chemical splash suit. Fully-encapsulating, gas-tight suits should be worn for maximum protection. Structural firefighter's uniform is NOT effective for spills.

SECTION 7 : HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING
Corrosive – Nonflammable

Avoid spilling, skin and eye contact. Wear protective clothing, including elbow length PVC gloves and suitable eye protection.

Use with adequate ventilation – avoid creation and inhalation of aerosols.

After use wash hands before eating, drinking or smoking.

Do not handle broken packages unless wearing appropriate personal protective equipment.

STORAGE CONDITIONS
Do not store with D.G classes 1,5,7, strong alkalis, food or food containers.
Store in original container, tightly closed, away from foodstuffs and out of reach of children.

SHELF LIFE
Use within 6 Months

SECTION 8 : EXPOSURE CONTROLS & PERSONAL PROTECTION

EXPOSURE LIMITS
Sodium Hypochlorite
No value assigned by NZ Occupational Safety and Health (OSH)

However, Exposure Standard(s) for decomposition product(s)

Chlorine: WES – TWA 0.5 ppm, 1.5 mg/m3

WES – STEL 1 ppm, 2.9 mg/m3

Sodium Hydroxide: TWA 2 mg/m3

ENGINEERING CONTROLS
Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Exposure Standards. If inhalation risk exists: Use with local exhaust ventilation or while wearing air supplied mask. Keep containers closed when not in use.

EYE/FACE PROTECTION
Use safety glasses (with side shields).
SKIN PROTECTION
Chemical protective gloves should be worn when handling this material. Consistent with general hygienic practice for any material, skin contact should be minimized.
OTHER PROTECTION
Wear overalls use elbow length PVC gloves and suitable eye protection.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE
Clear Gel with a faint yellow tint, Chlorine

PHYSICAL PROPERTIES
Fully soluble in water.

Specific Gravity:	1.10
pH value:	12.5 – 13.5

SECTION 10 : STABILITY AND REACTIVITY

REACTIVITY
No data available

CHEMICAL STABILITY
Stable under normal ambient and anticipated storage and handling conditions.
Incompatible with acids , peroxides, reducing agents and metal salts
Reacts **explosively** with amines and methanol.
Chlorine component degrades over a short period (6 months)

SECTION 11 : TOXICOLOGICAL INFORMATION

GENERAL
Corrosive and damaging to tissue. May be harmful if ingested, inhaled, gets in eyes or absorbed through skin.

SWALLOWED
Corrosive. Burns in/around the mouth and digestive **tract**.

EYE
Severe irritant – corrosive to the eyes. Can cause corneal burns.
Contamination can result in permanent injury.

SKIN
Irritant, corrosive.

INHALED
Potentially toxic/corrosive – avoid creating aerosols or mists.
Limit exposure to fumes to 5 – 7 minutes.
Sodium Hypochlorite

Acute Oral Toxicity, Rat, LD50: 8910mg/kg
Acute Oral Toxicity, Mouse, LD50: 5800mg/kg
Acute Dermal Toxicity, Rabbit: 500mg/24h Moderate
Sodium Hydroxide

Acute Dermal Toxicity, Rabbit LD50:1350mg/kg [NZ EPA CCID]
Acute Inhalation Toxicity, LC50: No data.
Irritation Data:
Skin (rabbit): 500 mg/24h SEVERE
Eye (rabbit): 0.05 mg/24h SEVERE
Eye (rabbit):1 mg/24h SEVERE
Eye (rabbit):1 mg/30s rinsed- SEVERE

SECTION 12 : ECOLOGICAL INFORMATION

12.1 Toxicity

Hypochlorites are extremely toxic to fish; Exposure to 0.5 % over 96 hours resulted in death of trout.

12.2 Persistence and degradability

Hypochlorites are non-persistent in the environment and there is no accumulation potential as they gradually decompose into salt and oxygen.

12.3 Bio accumulative potential

Hypochlorites are non-persistent in the environment and there is no accumulation potential as they gradually decompose into salt and oxygen.

12.4 Mobility in soil

May leach to groundwater with resultant toxicity to aquatic organisms.

12.5 Other adverse effects

No information provided.

SECTION 13 : DISPOSAL CONSIDERATIONS

CONTAINER DISPOSAL
Dispose of empty containers safely in accordance with local regulations.
Triple rinse containers when empty, add rinsing to use solutions.
Avoid contamination of natural water supplies with chemicals or empty container.
After cleaning, all existing labels should be removed.

PRODUCT DISPOSAL
Adjust the pH to neutral with citric acid, separate any insoluble solids or liquids and package them for hazardous waste disposal. Flush the aqueous solutions down the drain with plenty of water.
The hydrolysis and neutralization reactions may generate heat and fumes which can be controlled by the rate of addition and good ventilation.

SECTION 14 : TRANSPORT INFORMATION

UN No.	1791
Dangerous Goods Class:	8 - Corrosive
Hazchem code:	2X
Packing group:	III
Proper Shipping Name:	HYPOCHLORITE Solution
Segregation:	Don’t store with D.G classes 1, 5, 7, strong acids, food or food containers.

SECTION 15 : REGULATORY INFORMATION

ERMA Approval Code:	**HSR002526**
Group Standard:	Cleaning Products (Corrosive)
MPI Approval	**MPI approval for use in farm dairies**
HSNO Controls:	**Trigger quantities for this substance by itself in a place**
Approve handler test certificate:	*Not required*
Hazardous substance location:	*Not required*
Location Test certificate:	*Not required*
Hazardous Atmosphere Zone:	*Not required*
Emergency Plan:	*100 ltrs*
Tracking:	*Not required*
Warning Signs:	*1,000 lres*
Record of application or discharge:	*Not required*

SECTION 16 : OTHER INFORMATION

New Zealand Poisons Information Center 0800 POISON (0800 764 766)

EPA	The Environmental Protection Authority of New Zealand
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
HSHO	Hazardous Substances and New Organisms Act 1996
MPI	Ministry for Primary Industries

DISCLAIMER: *The data given relates to this product alone, and it is not for use in conjunction with other substances or products. In such circumstances, assuming the combination is permitted, refer to product labels, be guided by the most hazardous of the substances involved and observing the more stringent hazard controls applicable.*

The information contained in this safety data sheet was obtained from current and reliable sources. This data is supplied without warranty, expressed or implied, regarding its correctness and accuracy. It is the user's responsibility to determine safe conditions for use of this product and to assume liability for loss, injury, damage or expense resulting from improper use of this product.

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