

1. IDENTIFICATION AND USE OF THE PRODUCT AND SUPPLIER

PRODUCT NAME CLO 501
 USAGE: Chlorinated Alkaline Cleaner for CIP Pipes and Tanks

Maker **LIBERCHEM** 
 LIBERCHEM Inc
 572 Avenue Orly, Dorval
 Quebec, Canada
 H9P 1E9
 Tel: 514 631-7177

EMERGENCY PHONE Poison Control Centre (Quebec): 1 (800) 663-5060
 CANUTEC: (613) 996-6666

2. IDENTIFICATION OF HAZARDS

• Risk classification of the substance - Hazard statement



GHS05 CORROSION

Hazard statement

Skin corrosion, causes severe eye damage, causes skin burns. If ingesting causes burns in the digestive system. Inhalation: May cause irritation of the nose, throat, and lungs.
 Corrosive materials to metals

• Labeling Element



Sodium Hydroxyde, sodium hypochlorite, solution

• Precautionary Advice

If medical advice is required; Alternate the available container or label.

Keep out of reach of children

Read the label before use

Do not breathe in spray fumes.

Skin contact (hair): Remove soiled clothing immediately, rinse thoroughly in the shower

Contact with eyes: Rinse carefully with water for several minutes, Remove contact lenses if present and easy to remove, continue rinsing

Dispose of container contents in accordance with national, international, regional and local regulations.

NFPA Classification System - scale (0-4)



Health =4
 Flammability = 0
 Instability: 0

HMIS - échelle (0-4)

HEALTH	4
FLAMMABILITY	0
PHYSICAL DANGER	0

3. COMPOSITION / COMPONENT INFORMATION

HAZARDOUS INGREDIENTS

Chemical Name: Mixtures

Description: Mixture of the substances listed below with non-hazardous additions

1310-73-2	Sodium hydroxide	10 – 30 %
7681-52-9	Sodium Hypochlorite en solution	1-5 %

4. FIRST AID

INHALATION : Bring the victim to fresh air. If the victim is unconscious, place him on the side before transporting him. Getting medical attention
 SKIN Wash immediately and thoroughly with water or in the shower; Use mild soap, wash clothes before reuse. Getting medical attention
 EYES Rinse immediately with plenty of water, keeping the eyelids open. Remove contact lenses if the victim wears them and if they can be easily removed. Continue rinsing. Seek medical attention immediately .
 INGESTION: DO NOT INDUCE VOMITING, Do not make an unconscious person swallow. If the victim is conscious, rinse the victim's bouche.et make him take a lot of water. Seek medical attention immediately.

- Most significant symptoms and effects (acute and delayed): (Refer to section 11) -No other important information available
- Immediate medical management or special treatment, if applicable: No other important information available

5. FIRE-FIGHTING MEASURES

Safety data sheet

- EXTINGUISHING MEANS: Use the appropriate means to extinguish the fire: Carbon dioxide (CO₂), powder, water mist
- INAPPROPRIATE EXTINGUISHING AGENTS: Do not use a concentrated jet of water that could spread the fire.
- HAZARDS SPECIFIC TO THE HAZARDOUS PRODUCT OR MIXTURE: No other important information available
- SPECIAL PROTECTIVE EQUIPMENT AND SPECIAL PRECAUTIONS FOR FIREFIGHTERS: Use personal protective equipment.

6. MEASURES IN THE EVENT OF AN ACCIDENTAL SPILL

- PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY MEASURES: Wear protective equipment, keep unprotected people away. (Refer to section 8 for personal protection). And section 13 for product disposal data.
- METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING: Using absorbent materials such as sand, vermiculite, universal absorbents, sawdust, Use a neutralizing agent. Use adequate ventilation. (Refer to section 13 for product disposal).

7. HANDLING AND STORAGE

- SAFE HANDLING PRECAUTIONS: The workplace must be well ventilated to prevent the formation of vapours
- STORAGE SAFETY CONDITIONS AND INCOMPATIBLE EQUIPMENT: Avoid heat, Strong acids and metals, slightly reactive with organic substances.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

- CONTROL PARAMETERS,

COMPONENTS WITH OCCUPATIONAL EXPOSURE LIMIT VALUES	
1310-73-2 Sodium Hydroxide (10 – 30%)	
PEL	Short-term value: 2 mg/m ³
REL	Cap: 2 mg/m ³
TLV	2 mg/m ³ TWA
7681-52-2 Sodium Hypochlorite (1.0 – 5.0%)	
WEEL	Short-term r-value: 2 mg/m ³

- APPROPRIATE ENGINEERING MEASURES: Ensure adequate ventilation, especially in enclosed areas. Use closed vacuum procedures, local exhaust ventilation, or other technical control to keep levels of suspended substances below exposure limits. Emergency eyewash stations and showers must be available in the workplace while handling this product.
- PERSONAL PROTECTIVE MEASURES:

GLOVES: Waterproof gloves



EYES: Protective eyewear



RESPIRATORY: Cartridge mask as needed



OTHER: Protective clothing



9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Light yellow liquid
SMELL	Chlorine
OLFACTORY SMELL	Not determined
pH (soil 1%)	12.0 – 13.0
MELTING POINT	Not determined
POINT OF EBULLITION	100°C.
FLASH POINT	Not applicable
EVAPORATION RATE	Not determined
FLAMMABILITY (Solid, Gas)	Not applicable
LOWER FLAMMABILITY LIMITS	Not determined
UPPER FLAMMABILITY LIMITS	Not determined
VAPOUR PRESSURE (20 °C)	17 mm Hg
DENSITY (20 °C)	1.20-1.25
WATER SOLUBILITY	Complete
STEAM DENSITY	Not determined
PARTITION COEFFICIENT (n-octanol/water)	Not determined
TEMPERATURE DE DECOMPOSITION	Not determined
VISCOSITY	Not determined

10. STABILITY. AND RESPONSIVENESS

- RESPONSIVENESS
- CHEMICAL STABILITY Stable under normal conditions
- RISK OF DANGEROUS REACTIONS No known dangerous reactions
- CONDITIONS TO AVOID Heat, light, contact with incompatible materials

Product code: 104955

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Safety data sheet

- INCOMPATIBLE MATERIALS Acids, reducing agents, oxidizing agents, soft metals (Al, Zn, Sn), ammonia.
- HAZARDOUS DECOMPOSITION PRODUCTS No known hazardous decomposition products.

11. TOXICOLOGICAL DATA

- INFORMATION ON TOXIC EFFECTS,

Acute toxicity:

1310-73-2 Sodium Hydroxide

Oral (LD50) 2000 mg.kg (rat)

HEALTH EFFECTS	Causes burning of the airways, accompanied by a burning sensation in the nose and throat, coughing, wheezing, shortness of breath, and pulmonary edema. Symptoms of pulmonary edema may occur after exposure. Chronic skin contact at low levels to cause dermatitis.
CHRONICLE EXHIBITION	No health risks are known or foreseeable under normal conditions of use
CARCINOGENICITY	No components of this product have been identified as probable, possible or recognized carcinogens for humans by the IARC
MUTAGENICITY	Data not available
TERATOGENICITY	Data not available

12. ECOLOGICAL DATA

ECOTOXICOLOGY The product is not classified as hazardous to the environment. However, this does not preclude the possibility that large or frequent spills may have a harmful or harmful effect on the environment. Due to the high pH of this product, it can be expected to produce significant ecotoxicity if exposed to aquatic organisms and systems

PERSISTENCE AND DEGRADATION Unknown data

POTENTIAL FOR BIOACCUMULATION/MOBILITY IN SOIL This product is not presumed to be bioaccumulative

OTHER ADVERSE EFFECTS Unknown data

13. PRODUCT DISPOSAL DATA

Dispose of this product and its container at a hazardous or special waste collection centre. Do not allow the substance to seep into sewers/water supply lines. Destroy in accordance with all applicable regulations

WASTE RESIDUES / UNUSED PRODUCTS Dispose of in accordance with all local, provincial and federal regulations.

14. TRANSPORTATION INFORMATION

Number one
TMD, DOT, IMDG, IATA
Legal designation for transport

UN3266

CORROSIVE LIQUID, BASIC, INORGANIC N.O.S (Sodium Hypochlorite, Sodium Hydroxide)

Transport hazard class



Class: **8** corrosive substances
Etiquette : **8**

Packing Group

II

Environmental hazards

No

15. REGULATORY INFORMATION

Product As Sold
WHMIS Classification E Corrosive substance

The components of this product are listed in the following inventories

- **Canadian Domestic Substances List (DSL):** All components of this product are listed on the Canadian Domestic Substances List (DSL).
- **U.S. TSCA Inventory:** In the TSCA Inventory

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Prepared by Regulatory Affairs Department.

We have characterized the general risks of the product according to *the USE WE RECOMMEND FOR THIS PRODUCT*.

Any use that does not conform to our recommendations may affect the risk characterization.

This MSDS contains health and safety information. The product is to be used in applications that are consistent with our product documentation. Anyone handling this product should be informed of the precautions to be taken with respect to the product and should have access to this information. For all other uses, exposures must be assessed to allow for the implementation of handling practices and training programs that can ensure safety in the workplace. For more information, please speak to your technical representative.

DISCLAIMER: The above information is based on data believed to be accurate. No warranty, express or implied, is based with respect to this data or information. It is the user's responsibility to determine whether the product is suitable for the intended conditions of use.