

# Material Safety Data Sheet



## Section 1. Product and company identification

**Product name** : **CYCLONE HP** **Code** : 7406

**Product description** : High-adherence, alkaline, chlorinated sanitizing and degreasing cleaner for the food industry

**Supplier/Manufacturer** : **CHOISY LABORATORIES LTD.** **Phone: (819) 228-5564**  
390, St-Laurent East, P.O. Box 6 **E-mail: info@choisy.com**  
Louiseville (Quebec) J5V 2L7 **www.choisy.com**

**In case of emergency** : **Quebec Poison Control Centre: (24 hours service)**  
-Quebec: (800) 463-5060 (no charge)  
-All other places: (418) 656-8090  
CANUTEC: (613) 996-6666 (collect)

## Section 2. Hazards identification

**Physical state** : Liquid. [Transparent liquid.]

**Signal word** : DANGER!

CAUSES EYE AND SKIN BURNS. MAY CAUSE RESPIRATORY TRACT IRRITATION.  
**See toxicological information (Section 11)**

## Section 3. Composition/information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
- Sodium hydroxide	1310-73-2	1 - 5
- Dimethylauramine Oxide	1643-20-5	1 - 5
- 2-phosphono-1,2,4-butanetricarboxylic acid	37971-36-1	1 - 5
- Sodium hypochlorite	7681-52-9	1 - 5

## Section 4. First aid measures

**Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

**Skin contact** : Flush contaminated skin with plenty of water. Continue to rinse for at least 10 minutes. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Get medical attention immediately.

**Inhalation** : Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention immediately.

**Ingestion** : If affected person is conscious, give plenty of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention immediately.

## Section 5. Fire-fighting measures

**Flammability of the product** : No specific fire or explosion hazard.

**Flash point** : Closed cup: >93.3°C [Pensky-Martens, closed cup.] [Product does not sustain combustion.]

**Extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.

## Section 6. Accidental release measures

- Personal precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Do not touch or walk through spilled material. Provide adequate ventilation. Put on appropriate personal protective equipment.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Methods for cleaning up** : Stop leak if without risk. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container.

## Section 7. Handling and storage

- Handling** : Put on appropriate personal protective equipment. Do not ingest. Avoid contact with eyes, skin or clothing. Avoid breathing vapor or spray. Use only with adequate ventilation. Keep away from acids. Manipulate with care, avoid splashes.
- Storage** : Store in accordance with local regulations. Keep out of reach of children. Store away from direct sunlight. Do not store in unlabeled containers. Separate from acids. Keep container tightly closed in a cool, well-ventilated place.

## Section 8. Exposure controls/personal protection

- Engineering measures** : Use only with adequate ventilation. If user operations generate vapor aerosols or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

### Personal protection

- Eyes** : Splash goggles.
- Hands** : Wear chemical-resistant, impervious gloves.
- Respiratory** : No respiratory protection required under normal handling conditions. Wear appropriate respirator when ventilation is inadequate.
- Other** : Wear appropriate protective clothing to prevent skin contact.

Handling of diluted product: Information contains therein are issued for the concentrated product as sold. At recommended use dilution, risks regarding this product are greatly reduced as to no longer being considered hazardous by the WHMIS. Preventive measures can then be tailored to the employer judgment based on experience and/or level of exposure of workers.

### Industrial Hygiene - Occupational Exposure Limits

Ingredient	Exposure limits
- Sodium hydroxide	<b>ACGIH TLV (United States).</b> STEL: 2 mg/m <sup>3</sup>
- Sodium hypochlorite	<b>ACGIH TLV (United States).</b> TWA: 0.5 ppm

Consult local authorities for acceptable exposure limits.

## Section 9. Physical and chemical properties

- Physical state** : Liquid. [Transparent liquid.]
- Color** : Colorless.
- Odor** : Chlorine.
- pH** : 13.3 to 13.8
- Viscosity** : Not available.
- Boiling/condensation point** : 100°C
- Melting/freezing point** : 0°C
- Relative density** : 1.058 to 1.062
- Solubility** : Easily soluble in the following materials: cold water and hot water.

## Section 10. Stability and reactivity

- Chemical stability** : The product is stable.
- Conditions to avoid** : No specific data.
- Materials to avoid** : Reactive or incompatible with the following materials:  
acids
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

## Section 11. Toxicological information

### Potential acute health effects

- Eyes** : Corrosive to eyes. Causes burns.
- Skin** : Corrosive to the skin. Causes burns.
- Inhalation** : The inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract.
- Ingestion** : May cause burns to mouth, throat and stomach.

### Potential chronic health effects

- Carcinogenic Effects** : No known significant effects or critical hazards.
- Mutagenic Effects** : No known significant effects or critical hazards.
- Teratogenic Effects** : No known significant effects or critical hazards.
- Reproductive effects** : No known significant effects or critical hazards.
- Sensitizer** : No known significant effects or critical hazards.

### Toxicity data

Product/ingredient name	Test	Species	Result
- Sodium hydroxide	LD50 Dermal	Rabbit	1350 mg/kg
	LD50 Oral	Rat	>140 mg/kg
- Dimethylauramine Oxide	LD50 Dermal	Rabbit	521 mg/kg
	LD50 Oral	Rat	601 mg/kg
- 2-phosphono-1,2,4-butanetricarboxylic acid	LD50 Dermal	Rabbit	>2000 mg/kg
	LD50 Oral	Rat	>2000 mg/kg
- Sodium hypochlorite	LD50 Dermal	Rabbit	10000 mg/kg
	LD50 Oral	Rat	8910 mg/kg

## Section 12. Ecological information

- Ecotoxicity** : No known significant effects or critical hazards.
- Biodegradability** : Not available.

### Aquatic ecotoxicity


Product/ingredient name	Result	Species	Exposure
- Sodium hydroxide	Acute LC50 100 ppm	Crustaceans	48 hours
- Dimethylauramine Oxide	Acute LC50 2.6 to 3.5 mg/l	Fish	96 hours
- 2-phosphono-1,2,4-butanetricarboxylic acid	Acute EC50 265 mg/l	Daphnia	24 hours

## Section 13. Disposal considerations

- Waste disposal** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**Consult your local or regional authorities.**

**Section 14. Transport information**

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
<b>TDG Class</b>	UN1824	Sodium hydroxide solution	8	III		<b>Remarks</b> Limited quantity in 5L or less

PG\* : Packing group

**Section 15. Regulatory information****WHMIS (Canada) : E**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**Section 16. Other information**

Date of issue : 2016-06-29

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**Notice to reader**

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