

Safety Data Sheet

LOW TEMP CHLORINE

UNCONTROLLED DOCUMENT

Warsaw Chemical Co., Inc. posts our Safety Data Sheets (SDS) to our company website
ONLY. Warsaw Chemical is NOT responsible for any SDS found on other sites.

Version 1.0010

Revision Date 02/27/2015

Print Date 02/27/2015



Section 1. Chemical product and company identification

Product Name: LOW TEMP CHLORINE

Product use: Chlorinator

Contact Information: Warsaw Chemical Co., Inc.
P.O. Box 858
Warsaw, IN 46581
Tel: 1.800.548.3396
Fax: 1.574.267.3884

Emergency Phone: INFOTRAC
800.535.5053 USA & Canada
352.323.3500 International

Section 2. Hazards identification

GHS Classification:

Skin corrosion/irritation(Category 1A, 1B, 1C)

Hazardous to the aquatic environment, long-term hazard(Category 1)

Pictogram(s):



Signal Word: DANGER

Hazard Statements:

H314 Causes severe skin burns and eye damage

H410 Very toxic to aquatic life with long lasting effects

Precautionary Statement(s):

P373 DO NOT fight fire when fire reaches explosives

P280 Wear protective gloves/protective clothing/eye protection/face protection

P501 Dispose of contents/container in accordance with federal, state and/or local regulations

P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing

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Section 3. Composition/information on ingredients

| Name | CAS number | % Less Than |
|-----------------------|------------|-------------|
| HYPORCHORITE SOLUTION | 7681-52-9 | 30.0000 |

The chemical identity of some or all components is confidential business information (trade secret) and is being withheld as permitted by 29CFR19191200 (i). No other ingredients known to be hazardous.

Section 4. First aid measures

Eye contact: Check for and remove 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: Wash skin surfaces thoroughly after contact. Wash clothing and clean shoes thoroughly before reuse. Get medical attention if irritation develops.

Inhalation: Move exposed person to fresh air. If breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen clothing. Get medical attention immediately.

Ingestion: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

General: Physicians: No specific treatment. Treat symptomatically. Contact poison treatment specialist if large quantities have been inhaled or ingested.

See Section 11 for exposure symptoms.

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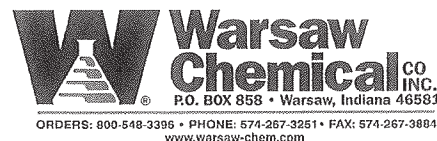
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Section 5. Fire-fighting measures

- Flammability:** In a fire or if heated, a pressure increase will occur and the container may burst.
- Extinguishing Media:** Use an extinguishing agent suitable for the surrounding fire.
- Protective Equipment:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with full face-piece operated in positive pressure mode.
- Additional Information:** Thermal decomposition products-carbon monoxide, sulfur oxides, metal oxide/oxides, halogenated compounds.

Section 6. Accidental release measures

- Personal Precautions:** No action should be taken involving individual risk or without suitable training. Isolate area. Avoid contact with material. Do not breath vapors. Provide adequate ventilation. Wear proper personal protective equipment.
- Environmental:** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform relevant authorities if the product reaches sewers, waterways or soil.
- Containment/Cleanup:** Stop leak if without risk. Move containers from spill area. Contain or absorb with inert dry material. Dispose of according to local regulations. See Section 1 for emergency contact information and 13 for waste disposal.

Section 7. Handling and storage

- Safe Handling:** Wear appropriate personal protective equipment (see Section 8). Eating drinking and smoking should be prohibited. Do not get into eyes or on skin. Do not ingest. Keep containers tightly closed. Do not reuse container.
- Safe Storage:** Store in accordance with local regulations. Store in original container away from foods, drink and incompatible materials. Keep container tightly closed. Do not store unlabeled. Use appropriate containment.

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Section 8. Exposure controls/personal protection

- Engineering Controls:** Apply technical measures to comply with occupational exposure limits. Mechanical ventilation, eyewash stations, showers where necessary.
- Eye Protection:** Safety eyewear/face shield complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.
- Respiratory Protection:** Use a properly fitted air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates necessity. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product & the safe working limits of the chosen respirator.
- Hand Protection:** Chemical resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Skin Protection:** Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

| COMPONENT | ACGIH TWA ppm | OSHA/NIOSH | OSHA/ACGIH |
|-----------|------------------|-------------|---------------|
| | | STEL ppm | STEL mg/m3 |

Section 9. Physical and chemical properties

| | |
|----------------------------|--------------|
| Physical State: | Liquid |
| Color: | Water white |
| Odor: | Chlorine |
| Odor Threshold: | N/E |
| pH: | 12.0-12.5 |
| Melting Point: | 23°F |
| Freezing Point: | 23°F |
| Boiling Point: | N/E |
| Flash Point: | Nonflammable |
| Evaporation Rate: | N/E |
| Flammability: | Nonflammable |
| Upper Explosive Limits: | N/A |
| Lower Explosive Limits: | N/A |
| Vapor Pressure: | N/E |
| Vapor Density: | N/E |
| Relative Density: | N/E |
| Solubility: | Complete |
| Partition coefficient: | N/E |
| Auto-Ignition Temperature: | N/E |
| Decomposition Temperature: | N/E |
| Specific Gravity: | 1.06 |
| % Volatile: | N/E |

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P.O. BOX 858 • Warsaw, Indiana 46581
ORDERS: 800-548-3396 • PHONE: 574-267-3251 • FAX: 574-267-3884
www.warsaw-chem.com

Section 10. Stability and reactivity

Reactivity: Non reactive

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: None known

Conditions to avoid: Excessive heat or open flame.

Incompatible materials: Avoid contact with acidic materials and strong oxidizers.

Hazardous Decomposition Products: Under normal conditions, none are known

Section 11. Toxicological information

Routes of entry: ☐ Inhalation ☐ Absorption ☐ Ingestion

Acute Exposure Hazards:

Eye contact: Irritation, stinging, redness, burns.

Dermal: Irritation, burns upon prolonged exposure.

Oral: Nausea, vomiting.

Inhalation: Not expected route of entry. Irritation

| COMPONENT | Result | Species | Dose | Exposure |
|-----------|--------|---------|------|----------|
|-----------|--------|---------|------|----------|

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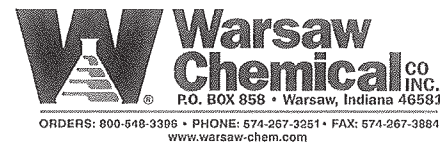
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**Section 12. Ecological information**

Ecotoxicity: No data available.
 Persistence & degradability: No data available.
 Bioaccumulative potential: No data available.
 Mobility in soil: No data available.
 Other adverse effects: No data available.

| Component | Result | Species | Dose | Exposure |
|-----------|--------|---------|------|----------|
|-----------|--------|---------|------|----------|

Section 13. Disposal considerations

Material that cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Processing, use or contamination of this product may change the waste management options. Waste generators must decide if discarded material is a hazardous waste. State and local disposal regulations may differ from federal disposal definitions. Dispose of container and unused contents in accordance with federal, state and local requirements.

Section 14. Transport information

DOT (US)

Hazard Class: 8
 UN Number: UN1791
 Packing Group: III
 Shipping Name: HYPOCHLORITE SOLUTIONS, 8

Section 15. Regulatory information

| SARA 313 Components | CAS No. | % Less Than |
|---------------------|---------|-------------|
|---------------------|---------|-------------|

| California Prop. 65 Components | CAS No. | % Less Than |
|--------------------------------|---------|-------------|
|--------------------------------|---------|-------------|

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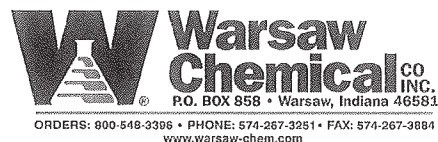
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Section 16. Other information

Hazardous Material Information System (U.S.A.)

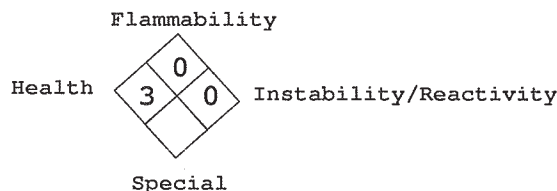
| | |
|---------------------|---|
| Health Hazard | 3 |
| Fire Hazard | 0 |
| Reactivity | 0 |
| Personal Protection | C |

Caution: HMIS ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks and 4 representing significant hazards or risks.

PERSONAL PROTECTION INDEX

| | |
|---|---|
| A | Safety Glasses |
| B | Safety Glasses, Gloves |
| C | Safety Glasses, Gloves, Apron |
| D | Face Shield, Gloves, Apron |
| E | Safety Glasses, Gloves, Dust Respirator |
| F | Safety Glasses, Gloves, Apron, Dust Respirator |
| G | Safety Glasses, Gloves, Vapor Respirator |
| H | Splash Goggles, Gloves, Apron, Dust & Vapor Respirator |
| I | Safety Glasses, Gloves, Dust & Vapor Respirator |
| J | Splash Goggles, Gloves, Apron, Dust & Vapor Respirator |
| K | Airline Hood or Mask, Gloves, Full Suit, Boots |
| X | Consult your supervisor for special handling directions |

National Fire Protection
Association (U.S.A.)



NFPA warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals.

Information on this form is furnished solely for the purpose of compliance with the Occupational Safety and Health Act of 1970 and shall not be used for any other purpose. Use or dissemination of all or any part of this information can be grounds for legal action.

To the best of our knowledge, the information provided in this Safety Data Sheet is accurate as of the date of its issue. However, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE. The information this Safety Data Sheet contains is being given for safety guidance purposes and relates only to the specific material and uses described in it. This information does not necessarily apply to that material when combined with other material(s) or when used otherwise than as described herein.

In all cases, it is the responsibility of the user to determine the applicability of such information and recommendations and the suitability of any product for its own particular purpose. All materials may represent unknown hazards and should be used with caution.