



# **SAFETY DATA SHEET**

**Chilled Water  
Corrosion Inhibitor  
(HC-508CHW)**



**Liang Chi Industry Philippines, Inc.**  
CHEMICAL AND TECHNICAL SERVICES DIVISION

## COMPANY IDENTIFICATION AND PRODUCT INFORMATION

Trade Name	<b>HYDRALCHEM HC-508CHW</b>
Description	Chilled Water Corrosion Inhibitor
Active Ingredient	Nitrite
Company Name	Liang Chi Industry Phils., Inc.
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Website	www.liangchi.com.ph

## HAZARD IDENTIFICATION

This product is an alkaline solution

## PHYSICAL PROPERTIES

Appearance	Clear, brown liquid
Odor	Mild
pH	11.0 – 13.0
Specific Gravity	1.1 – 1.2
Control Range	Target dosage range is 500 – 1000 ppm as NaNO <sub>2</sub> in the closed loop system

## FIRST AID MEASURE

Eyes	Flush immediately with copious amounts of tap water or normal saline (minimum of 15 minutes). Take exposed individual to a health care professional, preferably ophthalmologist, for further evaluation.
Skin	Wash exposed area with plenty of soap and water. Repeat washing. Remove contaminated clothing and wash thoroughly before reuse. If irritation persists consult a health care professional.
Inhalation	Move the exposed individual to fresh air. If individual is cyanotic or has difficulty breathing, administer oxygen, if available. Treat symptoms.
Ingestion	DO NOT INDUCE VOMITING. Rinse mouth with copious amounts of water or milk. First, irritate the esophagus and dilute stomach contents by slowly giving one (1) or two (2) glasses of water or milk. Avoid giving alcohol or alcohol related products. In case where the individual is semi-comatose, comatose or convulsing, DO NOT GIVE FLUIDS BY MOUTH. In case of intentional ingestion of the product seek medical assistance immediately; take individual to nearest medical facility.
Note to physician	No specific antidote is known. Probable mucosal damage may contraindicate the use of gastric lavage. Treat symptoms.

## FIRE AND EXPLOSION

Flammable Limits	Not Applicable
Extinguishing Media	Dry chemical, water fog, foam or carbon dioxide
Special Fire Fighting Procedures	No precautions

## HEALTH HAZARD INFORMATION

### *Symptoms of over-exposure for each potential route*

Inhaled	Upset and respiratory difficulty
Contact with skin or eyes	Causes Irritation
Absorbed through skin	Causes Irritation
Swallowed	Stomach upset
Others	Not applicable

### *Health effects or risks from exposure*

First Aid	Emergency procedures
Eye Contact	Flush with water for at least 15 minutes and get medical attention
Skin Contact	Wash with plenty of water
Inhaled	Move subject to fresh air. Apply artificial respiration if necessary
Swallowed	Dilute by giving two glasses of water to drink and call a physician. Never give anything to an unconscious person.

## REACTIVITY

Stability	Stable
Incompatibility	None known
Hazardous decomposition products	None known

## SPILL, LEAK AND DISPOSAL PROCEDURE

Important: When responding to spill or leak of this product, follow recommendations contained in the Handling Precautions section (Section 11) of this MSDS.

Initially minimize area affected by the spill or leak. Block any potential routes to water systems (e.g., sewers, streams, lakes, etc.). Based on the product's toxicological and chemical properties and on the size and location of the spill or leak, assess the impact on contaminated environments (e.g., water systems, ground, air equipment, etc.) There are no methods available to completely eliminate any toxicity this product may have on aquatic environments. Minimize adverse effects on these environments. Determine if federal, state and/ or local release notification is required (see Regulatory Classifications section of this MSDS). Recover as much of the pure product as possible into appropriate containers. Later, determine if this recovered product can be used for its intended purpose. Address clean-up of contaminated environments. Spill or leak residuals may have to be collected and disposed of. Clay, soil or commercially available absorbents may be used to recover any material that cannot readily be recovered as pure product. Flushing residual material to an industrial sewer, if present at the site of a spill or leak incident may be acceptable if authorized approval is obtained. If product and/ or spill/ leak residuals are flushed to an industrial sewer, insure that they do not come into contact with incompatible materials. Contact the person(s) responsible for the operation of your facility's industrial sewer prior to intentionally flushing or pumping spills or leaks of this product to the industrial sewer.

## HANDLING AND STORAGE

Handling Storage	Keep container tightly closed when unused. Store in well-ventilated location.
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## EXPOSURE CONTROL AND PERSONAL PROTECTION

Ingredient Comments:	No exposure limits noted for ingredients
Ventilation:	No particular ventilation requirements
Respirators:	Respiratory protection not required.
Protective Gloves:	Use protective gloves made of rubber
Eye Protection:	Wear approved safety goggles.
Other Protection:	Wear appropriate clothing to prevent repeated or prolonged skin contact.
Hygienic Work Practices:	No specific hygiene procedures noted, but good Personal hygiene practices are always advisable, especially when working with chemicals.

## LABELLING

Precautionary Statements	Irritation to skin and eyes
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## TOXICOLOGICAL INFORMATION

Primary Route(s) of Exposure: Eye, Skin, Inhalation, ingestion

### 1. *Effects from acute Exposure*

Eye Contact	May cause mild irritation depending on the length of exposure solution concentration and first aid measures.
Skin Contact	May cause mild skin irritation depending in the length o exposure, solution concentration and first aid measures.
Ingestion	No data is available on human ingestion. Based on the components and the acute oral toxicity, no adverse effects are expected.
Inhalation	May cause irritation or corrosion mucous membranes and the lungs. Exposed individuals should be monitored for respiratory distress, bronchitis or pneumonia.

### 2. *Effects from Chronic Exposure*

The effects from chronic exposure to DMAD have not been evaluated.

## ECOLOGICAL INFORMATION

Acute Oral LD50 (Rats):	Male between 10 and 20 g/kg Female between 5 and 10 g/kg
Acute Dermal LD50 (Rabbits):	8g/kg
Eye Irritation (Rabbits):	Non -irritating

## ENVIRONMENTAL TOXICOLOGICAL INFORMATION

96 Hour LC50:	Rainbow Trout - 0.42 mg/L Fathead Minnow- 4.4 mg/L
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## DISPOSAL CONSIDERATIONS

Large volumes should be taken to an authorized chemical disposal site/landfill in accordance w/local. National regulations.

## TRANSPORT INFORMATION

This product may have more than one proper shipping name, depending on packaging product properties, and made of shipment. All products shipped from Liang Chi HydraLChem locations have been properly packaged and labeled according to appropriate hazardous shipping regulations that apply for that particular shipment. If any alteration of packaging product or mode of transportation if further intended, different shipping names and labeling may apply. If there are any questions pertaining to hazardous shipping requirements, contact Liang Chi HydraLChem department for further details.

## REGULATORY INFORMATION

The following Regulations are known to apply to the use and disposal of this product. Additional Federal State, and Local regulations may also be applicable.

CERCLA ( Comprehensive Environmental response, Compensation and Liability Act): this product does not contain greater than 0.1 % of any also 40 CFR 302.4 listed hazardous substance (s).

SARA (Superfund Amendments and Reauthorization Act): The following sections of SARA apply to DMAD as described below:

SARA Section 302- Extremely Hazardous Substances List- 40CFR 300- No components of this product are listed on the Extremely Hazardous Substances List.

SARA Section 312- Hazard Category- 40 CFR 327- No hazards

SARA Section 313- Toxic Chemicals List- 40 CFR 372.45- This product does not contain any compounds which are listed on the Toxic Chemicals List.

RCRA (Resource Conservation and Reclamation Act): This product is not specified as a hazardous waste under 40 CFR 261.

CWA (Clean Water Act): This product does not contain components contained in 40 CFR 401.15.

OSHA Hazard Communication Standard- 29 CFR 1910.1200: no hazard

ACGIH (American Conference of Governmental Industrial Hygienist): This agency has not established a TLV/ TWA/ STEL for any of the hazardous components of DMAD.

FDA (Food and Drug Administration): this product is approved for use as a defoamer in the manufacture of paper and paperboard under 21 CFR 176.210, when used in accordance with the label directions.

TSCA (Toxic Substances Control Act): All components are included in the inventory.

FIFRA (Federal Insecticide, Fungicide and Rodenticide Act): This product is not a registered pesticide and is therefore not regulated under this act.

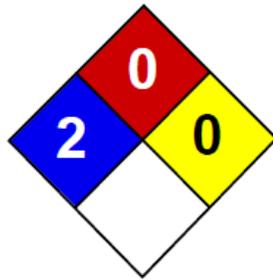
HMIS/ NPCA Ratings:  
NFPA Ratings:

Health 0, Flammability 0; Reactivity 0  
Health 0, Flammability 0; Reactivity 0

### OTHER INFORMATION

References Not available  
Other special considerations Not available  
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Disclaimer:

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Health	2
Fire	0
Reactivity	0
Personal Protection	H