



SAFETY DATA SHEET

**Scale and Corrosion
Inhibitor (HC-408SC)**



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

COMPANY IDENTIFICATION AND PRODUCT INFORMATION

Trade Name	HYDRALCHEM HC-408SC
Description	Scale and Corrosion Control
Active Ingredient	Hydroxyphospono Carboxylic Acid & Maleic Anhydride Hydrolyzed Copolymer
Company Name	Liang Chi Industry Phils., Inc.
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HAZARD IDENTIFICATION

Physical and Chemical Hazards	Corrosive
Environmental Hazards	Very toxic to aquatic life
Human Health Hazards	Harmful by inhalation and if swallowed, may cause burn.

PHYSICAL PROPERTIES

Appearance and Odor	Yellowish to brown liquid
pH (as supplied)	Below 4.0
pH (1% Solution)	Not Available
Boiling Point	Not Applicable
Melting Point	Not Applicable
Specific Gravity	1.0 – 1.1
Viscosity	Not Available
Vapor Density	(Air=1)
Solubility in Water	Complete
Evaporation Rate	Not Applicable
How to detect this substance	By color & odor by actual testing for the active ingredient

FIRE AND EXPLOSION

Flash Point	Not Applicable
Fire Point	Not Applicable
Autoignation Temperature	Not Applicable
Flammable Limits in air volume %	Lower: not applicable Upper: not applicable
Fire Extinguishing Materials	Water spray, foam, CO ₂ , dry chemical
Special Fire Fighting Procedures	Wear respirator (pressure demand, self-contained breathing Apparatus) and full protective wear. Use water Spray to cool fire exposed containers.
Unusual fire and explosion hazards	Not Applicable
Others	Not Applicable

HEALTH HAZARD INFORMATION

<i>Symptoms of over-exposure for each potential route</i>	
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
Condition to avoid	Temperature higher than 200 °C.
Hazardous decomposition products (including combustion products)	None
Hazardous polymerization	May not occur
Others	Not applicable

SPILL, LEAK AND DISPOSAL PROCEDURE

Spill response procedures (including employee protection measures)	Wear protective clothing, splash proof goggles and impervious overshoes. Remove contaminated clothing promptly, launder thoroughly before reuse. Wash skin with soap and water. Never dispose to bodies of water with fish.
Preparing waste disposal	Neutralize the waste and check for COD. Dilute with plenty of water until COD is acceptable.

Note: Dispose all wastes in accordance with federal, state and local regulation.

SPECIAL HANDLING INFORMATION

Ventilation and engineering controls	Mechanical local exhaust at point of contaminant (vapor or mist) release.
Respiratory protection	Water MSHA / NIOSH approved respirator suitable for concentration encountered where exposure limits are exceeded.
Eye protection	Splash-proof goggles and face shield
Gloves	Impervious
Other clothing and equipment	Over all if possible
Work practice, hygienic practice	Not applicable
other handling and storage required	Not applicable
Protective measures during maintenance of contaminated equipment	Not applicable

LABELLING

Precautionary Statements	Irritation to skin and eyes
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TOXICOLOGICAL INFORMATION

Not phototoxic nor a photo sensitizer. No evidence for any target organ toxicity. In vivo studies indicate no genotoxicity. At maternally non-toxic levels no fetotoxic, embryotoxic, or teratogenic effects observed.

ECOLOGICAL INFORMATION

Exotoxicity Toxic to aquatic organisms, fish and wildlife.
Other Data Do not allow product to reach the ground water, water courses sewage systems without prior decontamination.

TRANSPORT INFORMATION

DOT Classifications Class 8 : Corrosive liquid
Identifications Corrosive, liquid acidic, organic n.o.s.
Mode of Transport Rode/rail

OTHER INFORMATION

References Not available
Other special considerations Not available
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Health	2
Fire	0
Reactivity	0
Personal Protection	H