



SAFETY DATA SHEET

**Biocide B
(HC-108B)**



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

COMPANY IDENTIFICATION AND PRODUCT INFORMATION

Trade Name	HYDRALCHEM HC-108B (ALGAE CONTROL)
Description	Biocide
Active Ingredient	Benzalkonium Chloride Solution
Company Name	Liang Chi Industry Phils., Inc.
Address	Km.20 Ortigas Avenue Extension, Bo. San Isidro, Taytay, Rizal
Telephone Nos.	+632 658 8769; +632 658 8529; +632 660 0556; +632 533 4100
Fax No.	+632 8529
E-mail	sales.csd@liangchi.com.ph
Website	www.liangchi.com.ph

HAZARD IDENTIFICATION

Chemical Hazards	None
Approximate Percentage	Not Applicable
Exposure limits on air (TLV)	Not Applicable

PHYSICAL PROPERTIES

Appearance and Odor	Colorless, liquid, odorless
pH (as supplied)	6.0 to 7.0
pH (1% Solution)	Not Available
Taste	Bitter (Strong)
Molecular Weight	Not Available
Boiling Point	The lowest known value is 78.5°C (173.3°F). Weighted average is 98.28°C (208.9°F)
Melting Point	May start to solidify at -114.1°C (-173.4°F).
Critical Temperature	The lowest known value is 243°C(-469.4°F).
Specific Gravity	The highest known value is 57 kPa (20°C). Weighted average is 2.57 kPa (20°C).
Vapor Pressure	0 kPa (20 °C)
Vapor Density	>1 (Air = 1.0)
Volatility	50% w/w
Odor Threshold.	The highest known value is 100 ppm.
Water/Oil Dist. Coeff	Not Available
Ionicity in Water	Not Available
Dispersion Properties	See solubility in water, methanol, diethyl ether, acetone.
Solubility	Easily soluble in cold water, hot water. Soluble in methanol, acetone. Partially soluble in diethyl ether.

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

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
Condition to void	Strong alkaline solutions might cause precipitation when mixed with concentrated form
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	Check with local regulations about limit of phosphonium, if any

Note: Dispose all wastes in accordance with national 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

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.

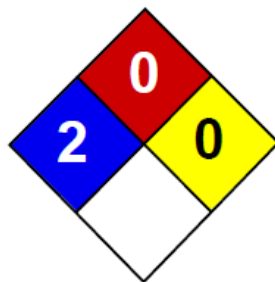
TRANSPORT INFORMATION

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
Created September 10,2016
Last updated September 13,2018
Disclaimer:

This information is given without a warranty or guarantee. No suggestion for use are intended or shall be construed as a recommendation to infringe any existing patents or viniata any. Label before using this product. This information is true and accurate to the best of our knowledge.



Health	2
Fire	0
Reactivity	0
Personal Protection	H