



# **SAFETY DATA SHEET**

**pH Adjuster  
(HC-308B)**



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

## COMPANY IDENTIFICATION AND PRODUCT INFORMATION

Trade Name **HYDRALCHEM HC-308 B**  
Description pH Adjuster  
Active Ingredient Sodium Hydroxide  
Company Name Liang Chi Industry Phils., Inc.  
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## COMPOSITION AND INFORMATION ON INGREDIENTS

### Composition

Name	CAS #	% by Weight
Water	7732-18-5	98%
Sodium Hydroxide	1310-73-2	2%

## HAZARD IDENTIFICATION

### Classification of the substance or mixture:



#### Corrosive

Corrosive to metals, category 1



#### Irritant

Skin Irritation, Category 2

Eye Irritation, Category 2A

Signal Word: **Warning**

### Hazard Statements

Causes skin irritation

Causes serious eye irritation

### Precautionary Statements

If medical advice is needed, have product container or label at hand

Keep out of reach of children

Read label before use

Keep only in original container

Wash skin thoroughly after handling

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

Absorb spillage to prevent material damage

**IF ON SKIN:** Wash with soap and water

Specific treatment (see supplemental first aid instructions on this label)

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

If eye irritation persists get medical advice/attention

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do.

Continue rinsing

Store in corrosive resistant stainless steel container with a resistant inner liner

## FIRST AID MEASURES

### Inhalation:

Remove victim from area of exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. For all but the most minor symptoms arrange for patient to be seen by a doctor as soon as possible, either on site or at the nearest hospital.

### Skin Contact:

If spilt on large areas of skin or hair, immediately drench with running water and remove clothing. Continue to wash skin and hair with plenty of water (and soap if material is insoluble) until advised to stop by the Poisons Information Centre or a doctor.

### Eye Contact:

Immediately wash in and around the eye area with large amounts of water for at least 15 minutes. Eyelids to be held apart. Remove clothing if contaminated and wash skin. Urgently seek medical assistance. Transport promptly to hospital or medical centre.

### Ingestion:

Immediately rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water. Seek immediate medical assistance.

Indication of immediate medical attention and special treatment needed:

Treat symptomatically. Can cause corneal burns.

## PHYSICAL PROPERTIES

Physical State	Liquid
Colour	Water-white to slightly turbid
Odor	No Specific Odour
pH (20 °C )	14
Boiling Point	Approx. is 100 °C (201 °F)
Melting Point	Approx. 0 °C
Specific Gravity	ca. 1.05
Vapor Pressure (20°C)	Not Available
Relative Vapour Density (air=1)	Not Available
Solubility	Miscible with water
Autoignition Temperature (°C)	Not Applicable
Flammability Limits (%)	Not Applicable
Flash Point	Not Applicable
Boiling Point/Range	Ca. 103

## FIRE AND EXPLOSION

Flammability Limits (%)	Not Applicable
Flash Point	Not Applicable
Fire Point	Not Applicable
Autoignation Temperature	Not Applicable
Suitable Extinguishing Media:	Not combustible, however, if material is involved in a fire use: Fine water spray, normal foam, dry).

	agent (carbon dioxide, dry chemical powder)
Hazchem or Emergency Action Code:	2W
Specific hazards arising from the substance or mixture:	Non-combustible material.
Special protective equipment and precautions for fire-fighters:	Contact with metals may liberate hydrogen gas which is extremely flammable. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

### ACCIDENTAL RELEASE MEASURE

Emergency procedures/Environmental precautions:	Clear area of all unprotected personnel. If contamination of sewers or waterways has occurred advise local emergency services.
Personal precautions/Protective equipment/Methods and materials for containment and cleaning up:	Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contact and breathing in vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. Caution - heat may be evolved on contact with water.

### STABILITY AND REACTIVITY

Reactivity:	Reacts with metals liberating flammable hydrogen gas.
Chemical stability:	Stable under normal conditions. Absorbs carbon dioxide from the air.
Possibility of hazardous	Corrosive to aluminium, tin, and zinc, liberating flammable hydrogen gas.
Conditions to avoid	Avoid contact with foodstuffs.
Incompatible materials:	Incompatible with acids , ammonium salts , aluminium , tin , and zinc .
Hazardous decomposition	None known.

### HANDLING AND STORAGE

Precautions for safe handling:	Avoid skin and eye contact and breathing in vapour, mists and aerosols. Keep out of reach of children.
Conditions for safe storage, including any incompatibilities:	Store in a cool, dry, well ventilated place. Store away from incompatible materials described in Section 10. Store away from foodstuffs. Keep containers closed when not in use - check regularly for leaks.

## EXPOSURE CONTROL AND PERSONAL PROTECTION

### Engineering Controls

Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Workplace Exposure Standards. Keep containers closed when not in use.

If in the handling and application of this material, safe exposure levels could be exceeded, the use of engineering controls such as local exhaust ventilation must be considered and the results documented. If achieving safe exposure levels does not require engineering controls, then a detailed and documented risk assessment using the relevant Personal Protective Equipment (PPE) (refer to PPE section below) as a basis must be carried out to determine the minimum PPE requirements.

### Personal Protection

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors. The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

OVERALLS, CHEMICAL GOGGLES, FACE SHIELD, GLOVES (Long), APRON, RUBBER BOOTS.



Wear overalls, chemical goggles, face shield, elbow-length impervious gloves, splash apron or equivalent chemical impervious outer garment, and rubber boots. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. If determined by a risk assessment an inhalation risk exists, wear a suitable mist respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

## TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Ingestion:	Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain and
Eye contact:	chemical burns to the gastrointestinal tract.
Skin contact:	A severe eye irritant. Corrosive to eyes; contact can cause corneal burns.
Inhalation:	No LD50 data available for the product. For the constituent Sodium hydroxide :
Acute toxicity:	Severe irritant (rabbit).
Skin corrosion/irritation:	No information available for the product.

## ECOLOGICAL INFORMATION

Ecotoxicity                      Avoid contaminating waterways.

## DISPOSAL CONSIDERATIONS

Disposal methods:            Refer to local government authority for disposal recommendations.  
Dispose of contents/container in accordance with  
local/regional/national/international regulations.

## 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  
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