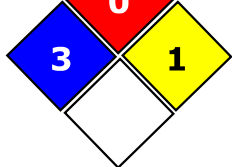




Safety Data Sheet

AQUA-SHIELD 320	NFPA Rating 
SDS No: 04:01:01:03:02 Rev 28-May-15 Rev 04	

Section1. Chemical Product & Company Identification	NFPA	
Company contacts : Batam, Indonesia 29433	Health 3	0- Minimum
Emergency contact : +62 811 3037 533	Fire 0	1- Slight
	Reactivity 1	2- Moderate
Product use : pH adjust	Special	3- Serious
		4- Extreme

Section 2. Hazard Information			
GHS Symbols :			
	Danger Causes severe skin burn and eye damage		Danger Fatal if swallowed Fatal if inhaled
		No Symbol	Warning Harmful to aquatic life
Potential Health Effects			
Eyes	: Corrosive to eyes.		
Skin	: Skin irritation, redness, burning and swelling.		
Swallowing	: Cause severe internal irritation and damage if consumed insignificant quantities.		
Inhalation	: May cause damage to cardiovascular, respiratory, nervous, and gastrointestinal systems and liver and blood through prolonged or repeated exposure.		

Section 3. Composition	% WT	CAS RN No (s) :
Sodium Hydroxide	< 50%	1310-73-2
Non-hazardous component	> 50%	

Section 4. First Aid Measures	
Eyes	: Flush eyes continuously with running water at least 15 minutes. Seek medical attention.
Skin	: Remove contaminated clothing. Wash exposed area with soap and water. Seek medical attention. If burn, immerse affected area in cold running water.
Swallowing	: Do not induce vomiting. Rinse mouth with water. Give water to drink. Seek immediately medical advice.
Inhalation	: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately

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Section 5. Fire Fighting Measures

Extinguishing Media	:	Use extinguishing media suitable for surrounding area.
Exposure Hazard	:	None combustible, Not fire risk, however container may burn.
Protective Equipment	:	Safety glasses. Chemical goggles. Full face shield.

Section 6. Accidental Release Measures

Personal Precaution	:	Avoid contact, wear gloves, safety glasses and overalls
Environmental Precaution	:	Prevent entry to sewers and public waters.
Clean up Methods	:	Corrosive liquid. Poisonous liquid. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Use water spray curtain to divert vapor drift. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Neutralize the residue with a dilute solution of acetic acid.

Section 7. Handling & Storage

Handling	:	Do not ingest. Do not breathe gas/fumes/ vapor/spray. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, reducing agents, metals, acids, alkalis, moisture
Storage	:	Keep container tightly closed. Keep container in a cool, well-ventilated area

Section 8. Exposure Controls & Personal protection

Engineering Controls	:	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.
Personal Protection	:	Face shield. Full suit. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves. Boots.
Personal Protection in Case of a Large Spill	:	Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Section 9. Physical & Chemical Properties

Appearance	:	Clear to hazy white liquid
Odor	:	Odorless
pH	:	12.0 - 14.0
Boiling Pointer	:	140 C

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Melting Point	:	12 C
Flash Point	:	Not applicable
Explosive Properties	:	Not applicable
Vapour Pressure	:	Negligible
Density	:	1.4 - 1.6

Section 10. Stability & Reactivity

Conditions to Avoid	:	Excess heat, incompatible materials, water/moisture
Materials to Avoid	:	Reactive with oxidizing agents, reducing agents, metals, acids, alkalis. Slightly reactive with water
Hazardous Decomposition Products	:	Under normal handling condition, hazardous products will not occur.

Section 11. Toxicological Information

Acute oral LD50 (rat)	:	No data
Acute inhalation LC50 (rat)	:	No data
Acute dermal LD50 (rat)	:	No data

Section 12. Ecological Information

Ecotoxicity data	:	Fish toxicity LC50 (96 hr) 43 mg/L.
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Section 13. Disposal Considerations

Treat and neutralize with dilute acid at an effluent treatment plant. Consult State Land Waste Management Authority for disposal.

Section 14. Transport Information

UN Number	:	1824
Packaging Group	:	II
Dangerous Good Class	:	Class 8
Subsidiary Risk	:	None
Hazchem Code	:	None
Poison Schedule Number	:	None

Section 15. Regulatory information

Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications:

WHMIS (Canada):p. 6

CLASS D-2A: Material causing other toxic effects (VERY TOXIC). CLASS E: Corrosive liquid.

DSCL (EEC):

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HMIS (U.S.A.):

Health Hazard: 3

Fire Hazard: 0

Reactivity: 1

Personal Protection:

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

Health: 3

Flammability: 0

Reactivity: 1

Specific hazard:

Section 16. Other Information

References: Not available.

Other Special Considerations: Not available.

End of Safety Data Sheet