

MATERIAL SAFETY DATA SHEET

MSDS

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Date-Issued 09/22/1997
MSDS Ref No RAQU03002
Date-Revised 09/22/1997
Revision No New MSDS

Aqua Chem Liquid Chlorinizer

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME Aqua Chem Liquid Chlorinizer
GENERAL USE Swimming pool sanitizer
CHEMICAL FAMILY Hypochlorite
GENERIC NAME Sodium Hypochlorite

MANUFACTURER

Recreational Water Products
Aqua Chem
PO Box 887
Scottsdale, GA 30079
Customer SERVICE (800) 949-7946

24 HR EMERGENCY TELEPHONE NUMBERS

CHEMTREC (Transportation) (800) 424-9300
Rocky Mountain (Medical) (303) 623-5716

COMMENTS:

EPA Registration Number 5185-299-67262

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Wt %</u>	<u>CAS Registry #</u>	<u>EINECS #</u>
Sodium hypochlorite	10	7681-52-9	231-668-3

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE

Yellow liquid with a chlorine odor

IMMEDIATE CONCERNS

DANGER Corrosive, may cause severe skin and eye irritation or chemical burns to broken skin Causes eye damage Wear safety glasses or goggles and rubber gloves when handling this product Wash after handling Avoid breathing vapors Vacate poorly ventilated areas as soon as possible Do not return until strong odors have dissipated

POTENTIAL HEALTH EFFECTS

EYES

DANGER Corrosive Causes eye burns Do not get in eyes

SKIN

DANGER Corrosive Causes skin burns Do not get on skin

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INGESTION

Harmful if swallowed

INHALATION

Irritating to nose and throat Avoid breathing vapors

CHRONIC

There are no known chronic hazards

ROUTES OF ENTRY:

Skin Contact, Inhalation, Ingestion, Eye Contact

4. FIRST AID MEASURES

EYES

If contact with eyes occurs Immediately flush with cold water for at least 15 minutes Then get immediate medical attention

SKIN.

If on skin Wash with plenty of soap and water Get medical attention if irritation persists

INGESTION

If swallowed Drink large amounts of water Do not induce vomiting Avoid alcohol NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON Call a physician or poison control center immediately

INHALATION

If inhaled Remove to fresh air If breathing is difficult, have trained person administer oxygen If not breathing, give artificial respiration Call a physician immediately

NOTES TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD None

GENERAL HAZARD

There are no unusual fire and explosion hazards known

EXTINGUISHING MEDIA

Water Fog

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FIRE FIGHTING EQUIPMENT

Firefighters should wear full protective clothing and self contained breathing apparatus (SCBA)
Thoroughly decontaminate fire fighting equipment including all fire fighting wearing apparel after the incident

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES:

STEP TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Utilizing appropriate clothing and safety equipment, contain spill material Cover the liquid with an inert absorbent Using clean, dedicated equipment, sweep and scoop all spilled material, contaminated soil, and other contaminated material and place into clean dry plastic containers for disposal Dispose of according to local, state and federal regulations

7. HANDLING AND STORAGE

GENERAL PROCEDURES

Avoid contact with eyes, skin or clothing Avoid breathing vapors

HANDLING

STRONG OXIDIZING AGENT Do not mix with other chemicals Mix only with water Never add water to product Always add product to large quantities of water Use clean dry utensils Do not add this product to any dispensing device containing remnants of any other product Such use may cause a violent reaction leading to fire or explosion Contamination with organic matter or other chemicals will start a chemical reaction and generate heat, hazardous gas, possible fire and explosion In case of contamination or decomposition, do not reseal container If possible, isolate container in open air or well ventilated area Flood area with large volumes of water

STORAGE

Keep this product in its original container when not in use Store in cool, dry, well-ventilated area Keep this product and all other chemicals out of children's reach

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES.

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

	TWA	EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		SUPPLIER OEL	
		ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
Sodium hypochlorite		N/E ⁽¹⁾		N/E			

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OSHA TABLE COMMENTS

1 N/E = Not Established

ENGINEERING CONTROLS:

General room ventilation plus local exhaust should be used to minimize exposure to vapors

PERSONAL PROTECTIVE EQUIPMENT:

EYES AND FACE

Wear goggles or safety glasses with side shields when handling this product

SKIN

Wear rubber gloves when handling this product. Avoid contact with skin

RESPIRATORY

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use

WORK HYGIENIC PRACTICES:

Remove and wash contaminated clothing before reuse

OTHER USE PRECAUTIONS

Facilities storing or utilizing this material should be equipped with an eyewash and safety shower

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Chlorine

COLOR: Yellow

pH: 12.6

SOLUBILITY IN WATER: Miscible in Water

SPECIFIC GRAVITY: 1.2 g/ml

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID

High temperature, Poor ventilation, Contamination

STABILITY

This product is stable under normal conditions

POLYMERIZATION

Hazardous polymerization will not occur under normal conditions

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HAZARDOUS DECOMPOSITION PRODUCTS

Chlorine containing gases can be produced

INCOMPATIBLE MATERIALS

Avoid contact with easily oxidizable material. Ammonia, urea or similar nitrogen containing compounds. Inorganic reducing compounds. Heavy metal ions, alkalis, and combustible materials. Other swimming pool/spa chemicals in their concentrated forms.

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS

This product is corrosive to eyes.

SKIN EFFECTS

This product is corrosive to skin.

CARCINOGENICITY

This product is not listed as a carcinogen by IARC.

This product is not listed as a carcinogen by NTP.

This product is not listed as a carcinogen by OSHA.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

This pesticide is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds or estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD

Do not put product, spilled product, or filled or partially filled containers into the trash or waste compactor. Contact with incompatible materials could cause a reaction or fire.

PRODUCT DISPOSAL

Dispose of unused, uncontaminated product in compliance with local, state and federal regulations.

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EMPTY CONTAINER

Do not reuse container. Rinse thoroughly before discarding in trash.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME Not Regulated

OTHER SHIPPING INFORMATION Bill of Lading Description Consumer Commodity (Compounds Swimming Pool) (NMFC 50086)

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

313 REPORTABLE INGREDIENTS This product or its components are not listed

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY This product or its components are not listed

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY This product or its components are not subject to export notification

TSCA STATUS This product or its components are listed on the TSCA Inventory

OSHA HAZARD COMM RULE

Product is hazardous by definition of the Hazardous Communication Standard

FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT).

This product is a registered pesticide

16. OTHER INFORMATION

REVISION SUMMARY

New MSDS

NFPA CODES

HEALTH 3 FIRE 0 REACTIVITY 0

HMIS CODES

HEALTH 3 FIRE 0 REACTIVITY 0 PROTECTION B

MANUFACTURER DISCLAIMER:

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