

Product 9110
 Revision Date 01/20/2017
 Revision 2



Safety Data Sheet

SECTION 1: IDENTIFICATION

Product Name 9110
Identifier Uses Cleaning applications

Supplier Clear Water Technologies
 13560 Colombar Court
 Fontana, California 92337
 Tel: 844.429.8324

Website info@h2otreat.com
Emergency Telephone 24-HOUR EMERGENCY TELEPHONE:
 INFOTRAC: 1-800-535-5053
 INTERNATIONAL#: 1-352-323-3500

SECTION 2: HAZARDS IDENTIFICATION

Appearance Liquid.
Color Yellow.
Odor Chlorine.

Pictogram(s)



Signal Word Danger

Hazard Statements H314 Causes severe skin burns and eye damage.
 H400 Very toxic to aquatic life.

Precautionary Statements P260 Do not breathe dust/fume/ gas/mist/vapours/spray.
 P264 Wash hands thoroughly after handling.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/ protective clothing/eye protection/face protection.
 P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower
 P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER or doctor/physician
 P391 Collect spillage.

Contains sodium hypochlorite, solution ... % Cl active
 sodium hydroxide causticsoda

GHS Classification
Physical and Chemical Hazards Not classified
Human Health Skin Corr. 1B - H314, Eye Dam. 1 - H318,
Environment Aquatic Acute 1 - H400

OSHA Regulatory Status This product is Hazardous under the OSHA Hazard communication Standard.

Inhalation No information is available. Inhalation is not believed to be a likely route of exposure.
Ingestion Exposure to liquid product may cause nausea and diarrhea.

Skincontact	Exposure to liquid product may cause slight irritation to skin with prolonged contact.
Eye contact	Symptoms of exposure may include redness, scaling, itchiness or (occasionally) blistering. Exposure to liquid product may cause slight to moderate irritation to eyes. Symptoms of exposure may include redness, swelling, tearing or pain.
Routes of Exposure	No Information available.
Other Hazards	Not applicable.

SECTION 3: Composition/Information on Ingredients

Composition Comments	Confidential Business Information has been removed without affecting the overall safety information on the Safety Data Sheet.
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SECTION 4: FIRST AID MEASURES

Description of first aid measures

General Information	General first aid, rest, warmth and fresh air.
Inhalation	If this product is inhaled and symptoms occur, move the exposed person to fresh air promptly. Seek medical attention if symptoms persist.
Ingestion	If this product is ingested, drink small amounts of water and seek medical attention promptly. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
Skincontact	If this product contacts the skin, immediately flush the affected area with soap and water for at least fifteen (15) minutes. If the product penetrates the clothing, promptly remove the contaminated clothing or shoes, and flush the affected area as described. Seek medical attention if irritation persists.
Eye contact	If this product contacts the eyes, immediately flush eyes with plenty of clean running water for at least fifteen (15) minutes, lifting the upper and lower eyelids occasionally. Remove contact lenses if worn. Seek medical attention if irritation persists.

Most important symptoms and effects, both acute and delayed

General Information	No information available
Inhalation	No information is available. Inhalation is not believed to be a likely route of exposure.
Ingestion	Exposure to liquid product may cause nausea and diarrhea.
Skincontact	Exposure to liquid product may cause slight irritation to skin with prolonged contact. Symptoms of exposure may include redness, scaling, itchiness or (occasionally) blistering.
Eye contact	Exposure to liquid product may cause slight to moderate irritation to eyes. Symptoms of exposure may include redness, swelling, tearing or pain.
Routes of Exposure	No Information available.

Most important symptoms and effects, both acute and delayed

Notes To The Physician	Treat Symptomatically.
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SECTION 5: Firefighting Measures

Auto Ignition Temperature (° C)	No Information available.
Flammability Limit - Lower (%)	No Information available.
Flammability Limit - Upper (%)	No Information available.
Flashpoint	No Information available.
Extinguishing Media	Use water, foam, dry chemical or carbon dioxide to extinguish fire.
Hazardous combustion products	Combustion may lead to the release of oxides of sodium.
Unusual Fire & Explosion Hazards	Dried residue can thermally decompose, giving off irritating and possibly toxic fumes.
Special Fire Fighting Procedures	Use water to cool containers exposed to a fire. Remove exposed containers from fire area to avoid pressure rupture.
Protective equipment for fire-fighters	Fire fighters should wear full protective equipment, and have self-contained breathing apparatus available. Use NIOSH approved gas max with canister or self contained breathing apparatus for fires involving chlorine.

SECTION 6: Accidental Release Measures

Personal Precautions	Use proper personal protection (refer to Section 8).
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Environmental Precautions Run off from fire control or dilution water may cause pollution. Keep out of drains, municipal sewers, open bodies of water and water course.

Spill Clean Up Methods Safely stop source of spill. Clean up spills immediately. Restrict non-essential personnel from the area. Wear protective clothing, goggles and respirator if ventilation is not adequate. Dike spill area and soak up material with sand or other absorbent. Place into chemical waste container for disposal according to local, state or federal regulations. Allow to sit for thirty (30) minutes. Then, flush spill area with water.

SECTION 7: Handling and Storage

Handling Use proper personal protection when handling (refer to Section 8). Use under well-ventilated conditions. Avoid contact with eyes, skin and clothing. Avoid breathing vapors and mists. Avoid prolonged or repeated contact. Do NOT ingest. Wash thoroughly after handling. Rinse container before disposal.

Usage Description Use only according to directions.

Storage Precautions Keep container tightly closed. Do not store in heat or direct sunlight. Keep in dry, cool, and well ventilated place. The recommended storage temperature is 34°F to 129 °F, preferably at room temperature 70 °F. The recommended storage temperature is above 32°F, preferably at room temperature (70°F). Keep in original container.

Specific End Use(s) The identified uses are in section 1 of this Safety Data Sheet.

SECTION 8: Exposure Controls/Personal Protection

Protective Equipment



Component	STD	TWA (8 Hrs)	STEL (15mins)	Notes
sodium hydroxide caustic soda	OSHA		2mg/m3	

Ingredient Comments OSHA

Process Conditions Keep container tightly sealed when not in use. Provide eyewash, quick drench.

Engineering Measures General mechanical ventilation is recommended for enclosed areas.

Respiratory Equipment Use of respirator protection is not generally required. However, if exposure is above the stated limits or ventilation is inadequate, use a NIOSH approved acid gas/organic vapor respirator to reduce potential for inhalation exposure. When using respirator cartridges, they must be changed frequently to assure breakthrough exposure does not occur.

Hand Protection Use butyl rubber or nitrile gloves to minimize skin contact.

Eye Protection To avoid contact with eyes, use safety glasses or chemical splash goggles. Face shield is recommended. Eye wash station should be available in the work area.

Hygiene Measures DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

SECTION 9: Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

Appearance Liquid.

Color Yellow.

Odor Chlorine.

Odor Threshold - Lower No Information available.

Odor Threshold - Upper No Information available.

Melting point	32.0 °F
Initial boiling point and boiling range	212.0 °F
Flashpoint	No Information available.
Evaporation rate	No Information available.
Flammability State	No Information available.
Flammability Limit - Lower(%)	No Information available.
Flammability Limit - Upper(%)	No Information available.
Vapor pressure	23.75 mm Hg 0.00
Vapor Density (air=1)	1
Relative density	10.10
Bulk Density	No Information available.
Solubility	Completely soluble in water.
Decomposition temperature	No Information available.
Partition coefficient; n-octanol/water	No Information available.
Auto Ignition Temperature (°C)	No Information available.
Viscosity	No Information available.
Explosive Properties	No information available.
Oxidizing Properties	No Information available.
Molecular Weight	No Information available.
Volatile Organic Compound	No Information available.

SECTION 10: Stability and Reactivity

Reactivity	Reaction with strong alkalis, oxidizing materials and amines.
Stability	This product is stable at ambient temperatures and atmospheric pressures.
Hazardous Polymerisation	Hazardous polymerisation is not expected to occur under normal temperatures and pressures.
Hazardous Decomposition Products	Chlorine gas.
Conditions to Avoid	Avoid contact with strong alkalis, oxidizing materials and amines.
Materials to Avoid	Keep away from strong alkalis, oxidizing materials and amines.

SECTION 11: Toxicological Information

Toxicological Information	No Information available.
Acute Toxicity (Oral LD50)	>5800.00mg/kg Rat
Acute Toxicity (Dermal LD50)	No Information available.
Acute Toxicity (Inhalation LC50)	No Information available.
Skin Corrosion/Irritation	No Information available.

Respiratory Sensitisation	No Information available.
Skin Sensitisation	No Information available.
Reproductive Toxicity:	No Information available.
Germ Cell Mutagenicity:	
Genotoxicity - In Vitro	
Genotoxicity - In Vivo	
Carcinogenicity:	
Carcinogenicity	No Information available.
NTP - Carcinogenicity	The product and its components are not listed.
OSHA - Carcinogenicity	The product and its components are not listed.
IARC Carcinogenicity	The product and its components are not listed.
Specific Target Organ Toxicity - Single Exposure:	
STOT - Single Exposure	No Information available.
Specific Target Organ Toxicity - Repeated Exposure:	
STOT - Repeated Exposure	No Information available.

Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
sodium hypochlorite, solution... % Clactive	5800mg/kg Mouse 8.9lg/kg Rat		
sodium chloride	4000mg/kg Mouse 3000mg/kg Rat		

SECTION 12: Ecological Information

Ecotoxicity	No Information available.
Acute Toxicity - Fish	No Information available.
Acute Toxicity - Aquatic Invertebrates	No Information available.
Acute Toxicity - Aquatic Plants	No Information available.
Degradability	No information available.
Bioaccumulative Potential	No Information available.
Mobility	No information available.
Results of PBT and vPvB Assessment	No information available.
Other Adverse Effects	No information available.

Name	Acute Toxicity (Fish)	Acute Toxicity (Aquatic Invertebrates)	Acute Toxicity (Aquatic)
sodium hypochlorite, solution... % Clactive	LC50 ~0.05mg/l		
sodium chloride	LC50 96 Hours ~6545.00mg/l Pimephales promelas (Fat-head Minnow)	EC50 48 Hours ~404.90mg/l Daphnia magna	
sodium hydroxide causticsoda	LC50 96 Hours 125.00mg/l	EC50 48 Hours 40.86mg/l EC50 48 Hours ~40.86mg/l	

SECTION 13: Disposal Considerations

Waste Management	When handling waste, consideration should be made to the safety precautions applying to handling of the product.
Disposal Methods	Do NOT dump into any sewers, on the ground or into any body of water. Rinse containers before disposal. Since emptied containers contain product residue, follow label warnings even after container is emptied. Dispose in accordance with all applicable federal, state and local laws and regulations.

SECTION 14: Transport Information**UN Number**

UN No. (DOT/TDG)	UN1791
UN No. (IMDG)	UN1791
UN No. (IATA)	UN1791

Proper Shipping Name

DOT/TDG Proper Shipping Name	HYPOCHLORITE SOLUTION
IMDG Proper Shipping Name	HYPOCHLORITE SOLUTION
IATA Proper Shipping Name	Hypochlorite solution

Transport Hazard Class(es)

DOT/TDG Class	8
IMDG Class	8
IATA Class	8

Transport Labels

**Packing Group(s)**

DOT Packing Group	II
IMDG Packing Group	II
IATA Packing Group	II

Special Precautions for User

EMS	F-A, S-B
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Environmentally Hazardous Substance/Marine Pollutant

ADR	No
IMDG	No
IATA	No

SECTION 15: Regulatory Information**US Federal Regulations****SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities**

The Following ingredients are listed Not Available.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

The Following ingredients are listed sodium hydroxide causticsoda

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

The Following ingredients are listed Not Available.

SARA 313 Emission Reporting

The Following ingredients are listed Not Available.

CAA Accidental Release Prevention

The Following ingredients are listed sodium hypochlorite, solution ... % Cl active

OSHA Highly Hazardous Chemicals

The Following ingredients are listed None Listed.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

The Following ingredients are listed None Listed.

California Air Toxics "Hot Spots" (A-I)

The Following ingredients are listed sodium hydroxide causticsoda

California Air Toxics "Hot Spots" (A-Ii)

The Following ingredients are listed None Listed.

Massachusetts "Right To Know" List

The Following ingredients are listed sodium hypochlorite, solution ... % Cl active
sodium hydroxide causticsoda

Rhode Island "Right To Know" List

The Following ingredients are listed sodium hydroxide causticsoda

Minnesota "Right To Know" List

The Following ingredients are listed sodium hypochlorite, solution ... % Cl active
sodium hydroxide causticsoda

New Jersey "Right To Know" List

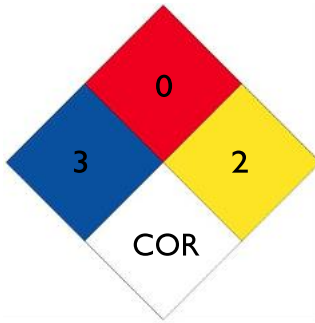
The Following ingredients are listed sodium hypochlorite, solution ... % Cl active
sodium hydroxide causticsoda

Pennsylvania "Right To Know" List

The Following ingredients are listed sodium hypochlorite, solution ... % Cl active
sodium hydroxide causticsoda

SECTION 16: Other Information

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)



HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)

Health	3
Flammability	0
Physical Hazard	2
Personal Protection	C

Revision Comments

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Disclaimer

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