



Section 1 - Identification

Product Name: Liquid Chlorine 12%
Alternate Name: Liquid Chlorine 12% (internal# CPL4078)
Recommended Use: Biocide / biodispersant
Manufacturer: Chem Pro Laboratory, Inc., 941 W 190th St, Gardena CA 90248, 310-532-8611
ChemTrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 - Hazard(s) identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

WARNING

Causes eye irritation

Wash contacted areas thoroughly after handling.

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.

Section 3 - Composition/information on ingredients

Chemical Name	CAS Number	Percent
sodium hypochlorite	7681-52-9	10-20%

Section 4 - First-aid measures

Emergency and First Aid Procedures:

Inhalation Remove to fresh air. Call physician, if exposure is severe.
Eye Contact Immediately flush with water for at least 15 minutes. Get medical attention.
Skin Contact Remove soaked clothes; wash with soap and water for at least 5 minutes.
Ingestion If conscious, drink large quantities of milk or gelatin solution, or if these are not available, drink large quantities of water. Do not induce vomiting. Get prompt medical attention.

Symptoms of Overexposure:

Inhalation Fumes from spills are very irritating to mucous membranes. Very little hazard from properly stored solution.
Contact with Skin or Eyes Severe irritant, reddening of skin, skin damager. Irritant, corrosive. Can cause damage to eyes & skin.
Absorption Through Skin Same as skin or eye contact.
Ingestion Causes irritation of membranes of the mouth, throat and stomach pain and possible ulceration. LD50 (oral, rat) for 12.5% NaOCl is above 5 g/kg body weight.



Section 5 - Fire-fighting measures

Extinguishing Media	water spray or carbon dioxide
Fire Fighting Procedure	Use NIOSH certified gas mask with canister for chlorine or use self-contained breathing apparatus.
Unusual Fire/Explosion Hazard	Material is strong oxidizer; contact with combustibles may initiate or promote combustion. Acid and heat accelerate decomposition. Decomposition products may include chlorine.
Hazardous Combustion Products	Substance is noncombustible

Section 6 - Accidental release measures

Spill Response Procedure	Material is toxic to fish. Contain in diked area. Neutralize with sodium sulfite, sodium bisulfite, or ferrous salt solutions. Dilute copiously with water.
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Section 7 - Handling and storage

Handling Precautions	No special handling procedures are required.
Storage Conditions	Store in a cool dry place. Keep container tightly sealed in a dry and ventilated area. Do not store unopened containers in direct sunlight for extended periods.

Section 8 - Exposure controls/personal protection

Chemical Name	OSHA PEL	ACGIH TLV
sodium hypochlorite	2 mg/m3 STEL	not listed
Ventilation	Local exhaust required.	
Respiratory Protection	Use NIOSH certified gas mask with canister for chlorine if fumes present.	
Protective Gloves	Use rubber gloves.	
Eye Protection	Use chemical goggles.	
Other Protective Equipment	Use rubber splash apron. Safety shower and eye wash fountain should be located nearby.	
Work / Hygienic Practices	Use protective gear.	

Section 9 - Physical and chemical properties

Appearance	Yellow green liquid.	Vapor Pressure @20°C	N/A
Odor	Disagreeable odor	Vapor Density	N/A
Odor Threshold	Not Determined	Specific Gravity	1.1 - 1.2
pH	12.5-13.5	Solubility in Water	Complete
Melting Point, °F	N/A	Partition Coefficient	Not Determined
Boiling Point, °F	Decomposes	Auto Ignition Temp, °F	N/A
Flash Point, °F	Not Flammable	Decomposition Temp, °F	Not Determined
Evaporation Rate	1.1	Viscosity	Not Determined
Flammability Limits	N/A	Percent Volatile	Variable

Section 10 - Stability and reactivity

Reactivity	not reactive in water
Stability	stable under normal conditions



Conditions to Avoid	Light, heat, fire, low pH, metallic impurities; naturally decomposes with age.
Incompatible Materials	Strong mineral acids.
Hazardous Decomposition Products	Contact with acid releases chlorine gas; natural decomposition product is oxygen. Thermal decomposition, or burning, may produce HCl.
Hazardous Polymerization	Hazardous polymerization will not occur.

Section 11 - Toxicological information

Routes of Entry	inhalation, skin or eye contact, ingestion
Acute Exposure Symptoms	Strong irritant.
Chronic Exposure Effects	Not reported.
Medical Conditions Aggravated By Exposure	N/A

Acute Toxicity:

Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
sodium hypochlorite	7681-52-9	8910 mg/kg	>2000 mg/kg	no data

Carcinogenicity:

Ingredients are on the following lists of suspected or known carcinogens:

Chemical Name	CAS Number:	IARC	NTP	OSHA
sodium hypochlorite	7681-52-9	No	No	No

Section 12 - Ecological information

Overview: No data

Section 13 - Disposal considerations

Preparing Waste For Disposal Contain in plastic tank or similar container; use sulfur dioxide gas, sodium sulfite, sodium bisulfite or ferrous salts. Discharge of treated effluents into lakes, streams, or public waters requires a valid discharge permit. Contact federal, state, county, and local environmental regulators for guidance.

Section 14 - Transport information

DOT Shipping UN1791, SODIUM HYPOCHLORITE SOLUTION, 8, PG II

Section 15 - Regulatory information

California Proposition 65 This product does not contain chemicals listed by California proposition 65.
HMIS Ratings Health: 2, Flammability: 0, Reactivity: 0

Section 16 - Other information

Date Prepared 5/22/2015
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CHEM PRO LAB INC

WATER TREATMENT SPECIALISTS
CHEMICAL ENGINEERS

SAFETY DATA SHEET

Liquid Chlorine 12%

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