

Material Safety Data Sheet

AQUACHLOR™ 10%, 12.5% Sodium Hypochlorite Solution 10% & 12.5%



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ALTIVIA Corporation
1100 Louisiana, Suite 3160
Houston, Texas 77002-5217

Emergency(Chemtrec): (800) 424-9300
Product Information: (713) 658-9000

HAZARDOUS INGREDIENTS/IDENTIFY INFORMATION

<u>Hazardous Components</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>CAS#</u>	<u>Other limits</u>
Sodium Hypochlorite	N/E	N/E	7681-52-9	None listed
Sodium Hydroxide	2 mg/m ³	2 mg/m ³	1310-73-2	None listed

PHYSICAL / CHEMICAL CHARACTERISTICS

Specific Gravity @ 70°F	1.13 - 1.25	NaOCl (wt %):	9.5 – 13.5
Boiling Point:	Decomposes above 40°C (104°F)	Vapor Pressure (mmHg):	N/A
Freezing Point:	< -10°F (-12°C)	Vapor Density (Air = 1):	N/A
Solubility in Water:	Complete	pH (As is):	11.5 - 13.5
Appearance/Color:	Clear, colorless to pale yellow		

FIRE AND EXPLOSION HAZARDS

Flash Point:	Non-Flammable	LEL:	N/A
Flammable Limits:	N/A	UEL:	N/A
Special Fire Fighting Procedure/Precaution:	Use extinguishing media that is appropriate for the surrounding fire. Use water spray to cool fire exposed containers. Wear NIOSH/MSHA approved positive-pressure self-contained breathing apparatus and full protective clothing if involved in a fire.		
Unusual Fire/Explosion Hazards:	May release toxic gases (hydrogen chloride and chlorine) upon decomposition. Sodium hypochlorite is an oxidizing agent. Keep away from oxidizable materials in a fire situation. If possible to do so without risk, move containers from fire area to prevent over pressurization and rupture.		

REACTIVITY DATA

Reactivity:	Reacts with acids, ammonia compounds, oxidizable materials, metals and reducing agents.
Stability:	Stable under proper storage conditions. May decompose upon heating and exposure to sunlight.
Incompatibility:	Acids, ammonia compounds, oxidizable materials, peroxides, metals (nickel, copper, tin, aluminum, and iron) and reducing agents.
Hazardous Decomposition/Byproducts:	Combustion: Hydrogen chloride and chlorine gas. Thermal Decomposition: Chlorine gas. Rate of decomposition increases with the concentration and with temperatures above 29°C (85°F).
Hazardous Polymerization:	Will not occur.
Condition to Avoid:	Avoid heat, flames, sparks and other sources of ignition. Avoid direct sunlight. Do not store above 29°C (85°F).

HEALTH HAZARDS & MEDICAL PROCEDURES

DANGER! CORROSIVE. MAY CAUSE SKIN AND EYE IRRITATION OR CHEMICAL BURNS TO BROKEN SKIN. CAUSES EYE DAMAGE. HARMFUL IF SWALLOWED.

ROUTES OF ENTRY

Inhalation:	Irritation of the respiratory system. Mist or fumes may cause bronchial irritation, coughing, difficult breathing, nausea and pulmonary edema.
Ingestion:	Oral or gastrointestinal irritation. Corrosion of mucous membranes, perforation of esophagus and stomach may follow.
Eyes:	Liquid or mist contact can produce severe eye irritation and burns. Prolonged exposures may cause eye damage and blindness.
Skin Contact:	Liquid contact can cause blistering and eczema. Prolonged exposure may cause dermatitis.

MEDICAL PROCEDURES

Inhalation:	Remove person from exposure to fresh air. If person is not breathing, call 911 or an ambulance, and then give artificial respiration (CPR). If individual is breathing, but with difficulty, GET IMMEDIATE MEDICAL ATTENTION.
Ingestion:	Drink large quantities of water. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Avoid alcohol. GET IMMEDIATE MEDICAL ATTENTION. Do not use acidic antidotes or sodium bicarbonate.
Eyes:	Hold eye open and rinse slowly and gently for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. GET IMMEDIATE MEDICAL ATTENTION.
Skin Contracts:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Thoroughly clean and dry contaminated clothing and shoes before reuse. Discard footwear that cannot be decontaminated. GET IMMEDIATE MEDICAL ATTENTION.
Note to Physician:	The absence of visible signs or symptoms of burns does NOT reliably exclude the presence of actual tissue damage.

TOXICITY

The toxicity and corrosivity of sodium hypochlorite is a function of concentration and pH. This material is irritating and may be corrosive to all tissue.

Carcinogenicity: Sodium Hypochlorite is not listed as a carcinogen by NTP, IARC, ACGIH, or OSHA.

Toxicity: The acute oral LD50 (rat) is 12 g/kg.

CONTROL MEASURES

PERSONAL SAFETY EQUIPMENT

Ventilation: Use closed systems when possible. Provide local exhaust ventilation where vapor or mist may be generated. Ensure compliance with applicable exposure limits.

Respiratory: Cartridges must be NIOSH/MSHA approved against chlorine. In case of fire, use SCBA for rescue. A respiratory protection program that meets 29 CFR 1910.134 must be followed whenever workplace conditions warrant use of a respirator.

Hands-Body: Wear chemical resistant clothing, rubber gloves (natural rubber, neoprene, nitrile, or PVC), aprons, or slicker suit and rubber boots when potential for contact with the material exists. Contaminated clothing should be removed, then discarded or laundered.

Face-Eyes: Wear splash resistant safety goggles with a face shield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

HANDLING AND STORAGE

Storage: Sodium Hypochlorite can be stored in approved rubber lined stainless steel tanks, fiberglass tanks (with a UV stabilizer package) or high density cross linked polyethylene (HDXLPE) tanks. As materials of construction vary, consult the tank manufacturer for compatibility with sodium hypochlorite before use. Store in a cool dry place away from heat sources and direct sunlight. Avoid heat, flames, sparks and other sources of ignition. Keep separated from incompatible substances. Do not reuse storage containers unless properly reconditioned.

Handling: Wear appropriate protective clothing. Avoid prolonged contact with eyes, skin and clothing. Avoid breathing vapors and mists. After handling, always wash hands thoroughly with soap and water. Use only with adequate ventilation.

Spill or Leak: Wear protective clothing and equipment. For large spills isolate hazard area and deny entry to unnecessary or unprotected personnel. Dike far ahead of liquid spill for later disposal. Prevent liquid from entering sewers or waterways. Sodium hypochlorite can be neutralized with weak reducing agents. Adequate ventilation is required when containing spills/leaks.

Disposal: Any disposal practice must be in compliance with local, state and federal laws and regulations. May be subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous waste Number: D002. This product is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, 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 the discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

CONTAINER DISPOSAL: Triple rinse container. Then offer for recycling or reconditioning, or puncture and dispose of it in a sanitary landfill, or incineration, or if allowed by state and local authorities by burning.

OTHER INFORMATION
TRANSPORTATION INFORMATION

DOT Shipping Name: Hypochlorite Solution, Corrosive

Class: 8

UN#: 1791

Packing Group: PG III

RQ: 100 lbs. (Sodium Hypochlorite)

REGULATORY INFORMATION

TSCA (TOXIC SUBSTANCE CONTROL ACT):

All components of this mixture are listed on the TSCA Chemical Inventory.

SARA TITLE III, SECTION 302:

Not listed as an Extremely Hazardous Substance.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):

Subject to reporting requirements under CERCLA (40 CFR 302).

CERCLA REPORTABLE QUANTITY:

Releases of Sodium Hypochlorite in quantities equal to or greater than the reportable quantity (RQ) of 100 pounds are subject to reporting to the National Response Center under CERCLA, Section 304 SARA Title III.

SARA TITLE III - HAZARD CLASSES:

Acute Health Hazard: Yes

Chronic Health Hazard: No

Fire Hazard: Yes (May release toxic gases on decomposition)

Sudden Release of Pressure Hazard: No

Reactivity Hazard: No

SARA TITLE III - SECTION 313 SUPPLIER NOTIFICATION:

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To Know Act (EPCRA) of 1986 and of 40 CFR 372:

CAS NUMBER
No

INGREDIENT NAME
No

PERCENT BY VOLUME
No

This information must be included on all MSDS's that are copied and distributed for this material.

OTHER INFORMATION
HAZARD CODES

NFPA

Health: 3

Flammability: 0

Reactivity: 1

OXIDIZER

HMIS

Health: 3

Flammability: 0

Reactivity: 1

Rating System

0= No Hazard

1= Slight Hazard

2= Moderate Hazard

3= Serious Hazard

4= Severe Hazard

Disclaimer of Warranty:

The information provided in this Material Safety Data Sheet has been obtained from sources believed to be reliable. ALTIVIA provides no warranties, either expressed or implied and assumes no responsibility for the accuracy or completeness of the data contained herein. This information is offered for your information, consideration, and investigation. You should satisfy yourself that you have all current data relevant to your particular use. ALTIVIA knows of no medical condition, other than those noted on this material safety data sheet, which are generally recognized as being aggravated by exposure to this product.