

SODIUM HYPOCHLORITE
COMMERCIAL CHLORPage 1 of 7
Revised 10/09/02

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME

**COMMERICAL CHLOR
SODIUM HYPOCHLORITE**CHEMICAL NAME SYNONYMS
CAS NUMBER
CHEMICAL FAMILY
FORMULABLEACH, LIQUID CHLORINE
MIXTURE
Base
NaOCL

DISTRIBUTED BY:

Commercial Pool & Spa, Inc
1167 Highway 36 East
Maplewood, MN 55109
(651) 766-6666EMERGENCY RESPONSE NUMBERS:
1-800-535-5053 24 Hours

MANUFACTURED BY: Commercial Pool & Spa

2. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS NUMBER	OSHA HAZARD	%BY WT.
Water	7732-18-5	No	87.5% - 90%
Sodium Hypochlorite	7681-52-9	Yes	10% - 12.5 %

3. HAZARDS IDENTIFICATION

PHYSICAL STATE	Liquid.
COLOR	Yellow.
ODOR	Chlorine odor

*****EMERGENCY OVERVIEW*** DANGER! CORROSIVE. Causes severe burns to eyes, skin, and respiratory tract. Harmful or fatal if swallowed. Harmful if inhaled.

POTENTIAL HEALTH EFFECTS

ROUTES OF EXPOSURE:

Eyes. Skin. Ingestion. Inhalation.

TARGET ORGANS:

Eyes. Skin. Respiratory System.

EYE CONTACT:

CORROSIVE -Causes severe irritation and burns.

Small amounts may cause: permanent eye damage, Blindness.

SKIN CONTACT:

CORROSIVE-Causes severe irritation and burns.

Corrosive action causes burns and frequently deep ulceration with ultimate scarring. Contact may cause: redness, swelling, burns, blistering and tissue destruction.

SKIN ABSORPTION:

No absorption hazard expected under normal use.

INHALATION:

CORROSIVE-Causes severe irritation and burns. May cause: coughing, difficulty breathing, pulmonary edema, nausea. May irritate nose, throat, and mucous membranes.

INGESTION:

CORROSIVE- Causes severe irritation and burns. May cause damage to the mouth, esophagus, stomach. May cause: vomiting, colitis, hypotension and perforation of the esophagus, circulatory collapse, convulsions, coma or death.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE TO PRODUCT:

Respiratory system disorders.

OTHER:

None known.

CANCER INFORMATION;

This product does not contain greater than 0.1% of the known or potential Carcinogens listed in NTP, IARC, or OSHA.

POTENTIAL ENVIRONMENTAL EFFECTS:

See Section 12.

4. FIRST AID MEASURES

EYE CONTACT:

Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Tilt head to avoid contaminating unaffected eye. Get immediate medical attention.

SKIN CONTACT:

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Do not reuse clothing and shoes until cleaned. DO not apply oils or ointment unless ordered by the physician.

INHALATION:

Remove to fresh air. If breathing is difficult administer oxygen. If not breathing, give artificial respiration, preferably mouth to mouth. GET MEDICAL ATTENTION IMMEDIATELY.

INGESTION:

If fully conscious, drink a quart of water. DO NOT induce vomiting. CALL A PHYSICIAN IMMEDIATELY. If unconscious or in convulsions, take immediately to hospital or a physician. NEVER induce vomiting or give anything by mouth to an unconscious victim. If vomiting occurs spontaneously, keep head below

4. FIRST AID MEASURES, CONT.

Hips to prevent aspiration of liquid into the lungs.

NOTE TO PHYSICIANS: Do not administer acidic antidotes or Sodium Bicarbonate following over exposure. An ounce of 1% Sodium Thiosulfate or Milk of Magnesia may be helpful.

5. FIRE FIGHTING MEASURES

FLASH POINT: None.

FLAMMABILITY LIMITS: LEL: N.A. UEL: N.A.

AUTOIGNITION TEMPERATUR: NO Data

EXTINGUISHING MEDIA:

For fires in area, use appropriate media. For example, Water spray, Dry chemical, Carbon dioxide and Alcohol foam.

FIRE FIGHTING METHOD:

Evacuate area of unprotected personnel. Wear protective clothing including NIOSH approved self-contained breathing apparatus. Remain upwind of fire to avoid hazardous vapors and decomposition products. Use water spray to cool, Fire-exposed containers and disperse vapor.

FIRE AND EXPLOSION HAZARDS;

May generate potentially explosive oxygen.

HAZARDOUS COMBUSTION PRODUCTS:

Chlorine-containing gases.

6 ACCIDENTIAL RELEASE MEASURES

SPILL CLEAN-UP PROCEDURES:

CORROSIVE MATERIAL. Evacuate unprotected personnel from area. Maintain adequate ventilation. Follow personal protective equipment recommendations found in Section 8. Never exceed any occupational exposure limit. Contain spill, place into drums for proper disposal. Flush remaining area with water to remove trace residue and dispose of properly. Avoid direct discharge to sewers and surface water. Notify authorities if entry occurs.

7. HANDLING AND STORAGE

STORAGE:

CORROSIVE MATERIAL. Store in a cool, well ventilated area, out of direct sunlight. Store in a dry location away from heat. Keep away from incompatible materials. Keep containers tightly closed. Do not store in unlabeled or mislabeled containers.

Relieve pressure in drums weekly. Do Not freeze. Avoid temperatures greater than 70 Deg. F. Product degrades more rapidly with increasing temperature.

7. HANDLING AND STORAGE, CONT

HANDLING:

Avoid contact with eyes, skin, and clothing. Use with adequate ventilation. Do not swallow. Avoid breathing vapors, mists or dust. Do not eat, drink or smoke in work area. Wash thoroughly after handling. Empty containers, retain product residue (vapor, dust, or liquid) and can be dangerous. DO NOT Pressurize, CUT, WELD, BRAZE, SODER, DRILL GRIND, OR EXPOSE SUCH CONTAINERS TO CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY OR OTHER SOURCES OF IGNITION. THEY MAY BXPLODE AND CAUSE INJURY OR DEATH.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Local exhaust ventilation, process enclosures, or other engineering controls are required when handling or using this product to avoid overexposure. Keep levels below exposure limits. To determine exposure levels, monitoring should be performed regularly.

RESPIRATORY PROTECTION:

If vapors or mists are present, wear NIOSH-Approved respirator. NIOSH-Approved self-contained breathing apparatus. DO NOT exceed limits established by the respirator manufacturer. All respratoty protection programs must comply with OSHA 29 CPR 1910.134 and ANSI Z88.2. requirements and must be followed whenever workplace conditions require a respirator's use.

EYES/FACE PROTECTION:

Wear chemical safety goggles and a full face shield while handling this product.
Do not wear contact lenses.

SKIN PROTECTION:

Prevent contact with this product. Wear gloves and protective clothing depending on condition of use.
Protective gloves: Rubber (latex). Polyvinyl chloride. Neoprene.

OTHER PROTECTIVE EQUIPMENT:

Eye-wash station. Safety shower. Rubber apron. Chemical safety shoes.
Protective clothing.

GENERAL HYGIENE CONSIDERATIONS:

Wash with Soap and water before meal times and at the end of each work shift. Good manufacturing practices require gross amounts of any chemical be removed from skin as soon as practical, especially before eating or smoking.

EXPOSURE GUIDELINES:

COMPONENT	OSHA		ACGIH	
	PBL,	STEL/C	TWA	STEL/C
Water	Not Estab.	Not Estab.	Not Estab.	Not Estab.
Sodium Hypochlorite	* Not Estab	* c1 ppm +	*0.5 ppm	*1.0 ppm
	* 0.5ppm +	*1 ppm +		

8. EXPOSURE CONTROLS/PERSONAL PROTECTION, CONT.

NOTE: * Exposure limits for Chlorine given. + Vacated 1989 OSHA. PEL(s).

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT (DEG. F):	Not Estab	SPECIFIC GRAVITY ; 1.210 @ 25C
FREEZING POINT (DEG. F):	-10 .	VOLATILE (WT%): 100
MELTING POINT [DEG. F):	N.D.	EVAPORATION RATE: N.D.
VAPOR PRESSURE (MM HG)	Not Estab	(nBuAc=1)
VAPOR DENSITY (AIR-1)	> 1'	VOC (WT%): 0
SOLUBILITY IN WATER	Complete	VOC (LDS/GAL): 0
pH :	> 12	

10. STABILITY:

STABILITY

Stable under normal conditions.

CONDITIONS TO AVOID:

Avoid exposure to light. Avoid temperatures greater than 70 Deg. F
Product degrades more rapidly with increasing temperature.

INCOMPATIBILITY:

Ammonia. Organic materials. Acids. Amines. Ammonium salts. Aziridine.
Methanol., Reducing agents. Oxidizing agents. Iron. Copper. Bisulfate's.
Phenyl acetonitrile. Cellulose. Ethyleneimine. Oxidizable metals. Soaps.

HAZARDOUS DECOMPOSITION PRODUCTS;

Chlorine-containing gases. Reacts with acids to release poisonous chlorine gas.
Sodium oxide.

HAZARDOUS POLYMERIZATION:

Will not occur under normal conditions.

11. TOXOLOGICAL INFORMATION

LD50 ORAL:	Mouse 5800 mg/kg (Sodium Hypochlorite)
LDSO SKIN:	No Data
LC50 INHALATION:	Rat: 293 ppm/l H (Chlorine)'

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:

No data available.

CHEMICAL FATE INFORMATION:

No data available.

13. DISPOSAL CONSIDERATIONS

HAZARDOUS WASTE NUMBER: D002

DISPOSAL METHOD:

Dispose of in a permitted hazardous waste management facility following all local, state and federal regulations.

If approved, flush to sewer with large quantities of water.

14. TRANSPORT INFORMATION (Not meant to be inclusive)

DOT (Department of Transportation);

Proper Shipping Name: HYPOCHLORITE SOLOUTION
Hazard Class 8
Identification Number: QN1791
Packing Group: III
Label Required: CORROSIVE
Reportable Quantity (RQ): 100% (Sodium Hypochlorite)

15. REGULATORY INFORMATION

FEDERAL REGULATIONS:

TSCA INVENTORY STATUS:.

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

SARA TITLE III SBCTION 311/312 CATEGORY:

IMMBDIATE (ACUTB) HEALTH HAZARD: YES
DELAYED (CHRONIC) HEALTH HAZARD: NO
FIRE HAZARD: YES
SUDDENS RELEASE OF PRESSURE HAZARD; NO
REACTIVE HAZARD: NO

SARA SECTION 302/304/313/HAP:

COMPONENT	RQ (LBS) (*1)	RQ (LBS) (*2)	TPQ (LBS) (*3)	SEC313 (*4).	HAP (*5)
Water	N.A.	N.A.	N.A.	NO	NO
Sodium Hypochlorite.	100	N.A.	N.A.	NO	NO

FOOTNOTES

- *1 CERCLA Reportable Quantity.
- *2 SARA Reportable Quantity.
- *3 SARA EHS Threshold. Planning Quantity.
- *4 SARA 313 Toxic Chemical/Category.
- *5 U.S. EPA Hazardous Air Pollutant.

ANSI/NSF Standard 60 Maximum Sue Level = 250 mg/L

STATE REGULATIONS:

WISCONSIN -The following components are listed as a Wisconsin HAP: None.

16. OTHER INFORMATION

HMIS RATING SYSTEM

Health	=	3
Flammability	=	0
Reactivity	=	1

NFPA RATING SYSTEM

Health	=	3
Flammability	=	0
Reactivity	=	1

MSDS ABBREVIATIONS:

N.A. = Not Applicable
N. D. = Not Determined
HAP = Hazardous Air Pollutant
VOC = Volatile Organic Compound
C = Ceiling Limit
N. E. /Not Estab. = Not Established

The data in this Material Safety Data Sheet relates only to the specific material designated and does not relate to its use in combination with any other material or process. The data contained is believed to be correct. However, since conditions of use are outside our control it should not be taken as a warranty or representation for which Commercial Pool & Spa Supplies Inc., DBA Commercial Supply, assumes legal responsibility. This information is provided solely for your consideration, investigation, and verification.