

Bleach 10's

MATERIAL SAFETY DATA SHEET Page 1

PRODUCT NAME : SODIUM HYPOCHLORITE 10%+CL2
 PRODUCT CODE : 11626
 Date: 4-NOV-2002 15:25:54.66

CAS # : 007681529
 MSDS NO. 001767
 Revision No./Date 05 020422
 Detail Number 01038/02

FORMULA: NaOCl
 CHEM. FAMILY: bleaching agents (oxidizers)
 CHEMICAL NAME AND SYNONYMS:
 Sodium Hypochlorite Solutions;
 Bleach;
 Soda Bleach Liquor;
 Chlorine Bleach;
 Chemland Extract 2;
 Extract 2;

MSDS NO. 001767 DEATH, NO. 01308

SUPPLIER'S NAME : HATCHES Chemicals Inc.
 5200 Speaker Road
 Kansas City KS 66106-1095

SUPPLIER'S PHONE NUMBER : 913-321-3131
 TRANSPORTATION EMERGENCY PHONE NUMBER : 1-800-424-9300

S.A.R.A. INFORMATION

HAZARDS : Acute Fire Chronic
 PHYSICAL DATA : Mixture Liquid

SECTION I HAZARDOUS INGREDIENTS

Ingredient Cas Number	MAX % W/W	SAFA APPLIES 312 313 372	AIR CONTAMINMENT LEVELS CELL (ppm)	SKIN AGENT
Sodium Hypochlorite Hypochlorous Acid, sodium salt (CAS # 7681-52-9)	15.0	Y N N	As Chlorine TWA/TLV 0.5 ppm STEL 1 ppm OSHA/ACGIH OSHA/ACGIH	
Caustic Soda Sodium Hydroxide (CAS # 1310-73-2)	3.0	Y N N	As Sodium Hydroxide TWA/TLV 2 mg/m3 (Ceiling) OSHA/ACGIH	

SECTION II HEALTH HAZARDS

PRODUCT NAME : SODIUM HYPOCHLORITE 10%+CL2
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SECTION II HEALTH HAZARDS

(CONTINUED)

POTENTIAL EFFECTS OF EXPOSURE

EYES

Eye contact with product may cause severe irritation eye damage blindness

SKIN

Skin contact may cause irritation burns
Prolonged or repeated skin contact may cause skin damage

INHALATION

Inhalation may cause severe irritation sneezing
Prolonged or repeated overexposure by inhalation may cause pneumonia lung damage, damage to
respiratory system even death

INGESTION

Ingestion may cause severe irritation tissue ulceration gastrointestinal damage circulatory
collapse convulsions coma

TARGET ORGANS

OVEREXPOSURE MAY CAUSE DAMAGE TO,
DISORDERS OF, OR ADVERSELY AFFECT THE FOLLOWING SYSTEMS, FUNCTIONS, ORGANS: destruction of all
body tissues

FIRST AID

FIRST AID EYES

Immediately flush eyes with plenty of water for at least 15 minutes, while holding eyelids apart
to ensure flushing of entire surface. Call a physician.

FIRST AID SKIN

Immediately flush skin with plenty of water for at least 15 minutes, while removing contaminated
clothing and shoes. Thoroughly clean clothing and shoes before reuse. Call a physician.

FIRST AID INHALATION

Remove to fresh air. If not breathing give artificial respiration, preferably mouth to mouth.
If breathing is difficult give oxygen. Call a physician.

FIRST AID INGESTION

Do not induce vomiting. Rinse mouth with water. Dilute stomach contents by drinking water. If
vomiting occurs spontaneously, keep head below hips to prevent breathing vomit into lungs. Call
a physician immediately.

OTHER INFORMATION

ROUTES OF ENTRY

eye contact skin contact inhalation

OVEREXPOSURE MAY AGGRAVATE DISORDERS OF THE

eyes skin respiratory system

CARCINOGEN STATUS

NO components present in excess of 0.1% by weight are listed as carcinogens by IARC, NTP, or
OSHA.

SECTION III SPECIAL PROTECTION

PRODUCT NAME : SODIUM HYPOCHLORITE 10%+CL2
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SECTION III SPECIAL PROTECTION

(CONTINUED)

PROTECTIVE EQUIPMENT

- PROTECTIVE EQUIPMENT EYES
- chemical goggles faceshield
- PROTECTIVE EQUIPMENT SKIN
- impervious gloves rubber apron
- PROTECTIVE EQUIPMENT INHALATION
- clean body covering clothing

If exposure limits are exceeded, or if exposure may occur, use a NIOSH/MSHA respirator approved for your conditions of exposure. Refer to the most recent NIOSH publications concerning chemical hazards, or consult your safety equipment supplier. Respiratory protection programs must be in compliance with OSHA requirements in 29 CFR 1910.134. For emergencies, a NIOSH/MSHA approved positive pressure breathing apparatus should be readily available.

VENTILATION REQUIRED:
Adequate ventilation is required to minimize exposure or to maintain exposure levels below OSHA/ACGIH requirements. Local mechanical ventilation may be required.

ADDITIONAL PROTECTIVE MEASURES
Safety shower, eye wash fountain, and washing facilities should be readily available.

SECTION IV FIRE & EXPLOSION HAZARD DATA

Flash Point (METHOD) : > OR = N/A
Flammable Limits (% Volume in Air) UPPER: N/D Lower: N/D

HMTS Info

- Health : 2
- Fire : 0
- React : 2
- Special : X

EXTINGUISHING MEDIA

water

FIRE FIGHTING PROCEDURES

Prevent human exposure to fire, fumes, smoke, and products of combustion. Evacuate non essential personnel. Firefighters should wear full face, self contained breathing apparatus and impervious protective clothing.

UNUSUAL FIRE & EXPLOSION HAZARDS

Product does not burn, but can provide oxygen which can intensify a fire. Toxic fumes may be released. Product is an oxidizer. It may react vigorously with organics or other materials resulting in an explosion and fire.

SECTION V PHYSICAL DATA

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SECTION V PHYSICAL DATA

(CONTINUED)

Boiling Point: N/D
Freezing Point: -6 deg. F
Specific Gravity (H(2)O=1): 1.2000 to 1.2400 @ 68 deg. F
Vapor Pressure (MM HG.): > OR = 17.500 @ 68 deg. F
Vapor Density (AIR=1) : N/D
Evaporation Rate (NA
Solubility in Water: COMPLETE
Percent Volatile by Volume: N/D
pH: aqueous approx. > OR = 12.000
Appearance:
COLORLESS TO LIGHTLY COLORED LIQUID

Odor :
SHARP

SECTION VI REACTIVITY DATA

STABILITY
Stable when stored in container under proper conditions.
INCOMPATIBILITY
amphoteric metals inorganic acids organic bases hydrocarbons
organic mixtures Avoid contact with amphoteric metals which include aluminum, copper, zinc, and brass. Avoid contact with strong reducing agents which include hydrogen, hydrazine, sulfides, sulfites, and nitrites. Product is an oxidizer. It may react vigorously with organics or other materials resulting in an explosion and fire.
HAZARDOUS DECOMPOSITION PRODUCTS
chlorine hydrogen chloride oxygen
HAZARDOUS POLYMERIZATION
will not occur

SECTION VII SPILL AND LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:
Product may be toxic to fish or aquatic life. Evacuate non essential personnel, eliminate ignition sources, and wear protective equipment (See Section III). Shut off source of leak only if safe to do so. Contain spill. Recover free product. To clean up residue, reduce by adding reducing agents such as bisulfites or ferrous salt solutions. Some heat will be produced. May be neutralized with reducing agents. Keep on alkaline side and dilute with copious quantities of water. Principal end product is salt water (NaCl).
DISPOSAL METHOD

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SECTION VII SPILL AND LEAK PROCEDURES

(CONTINUED)

Solids must be disposed of in a permitted waste management facility. Recovered liquids may be reprocessed or incinerated. Incineration must be handled in a permitted facility. Dispose of material in accordance with all Federal, State and local regulations. Local regulations may be more stringent than Federal or State.

SECTION VIII

Proper shipping Name: HYPOCHLORITE SOLUTIONS

Hazard Class: 8, UN1791, PGIII
Label Requirements: CORROSIVE
Reportable Quantity: None

SECTION IX ADDITIONAL INFORMATION

LABEL SIGNAL WORD

DANGER

PRECAUTIONS

Wear protective equipment when handling. Use only with adequate ventilation. Wash thoroughly after handling. Do Not breathe vapor, mist, or dust. Do Not get in eyes, on skin, or clothing. Keep from contact with clothing or other combustible materials. Do not swallow.

HANDLING

Do Not add any other product to this container. For industrial use only. Do Not apply heat to container. ATTENTION: This container hazardous when emptied. Since emptied container contains product residues (vapor or liquid), all labeled hazard precautions must be observed.

STORAGE

Keep container closed when not in use. Store in a cool dry place. Store out of direct sunlight and away from heat. Decomposition can cause pressure-buildup in closed containers. Relieve internal pressure when received and at least weekly thereafter by slowly loosening bung. Retighten immediately. Wear protective equipment. Keep out of reach of children.

SECTION X COMPLIANCE INFORMATION

NSF INFORMATION

MAXIMUM USE LEVEL IN POTABLE WATER:
For Sodium Hypochlorite 12.5% - 80 mg/L & For Sodium Hypochlorite 10% - 100 mg/L

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Date: 4-NOV-2002 15:25:59.10

NAME: GENE TURNER

< = LESS THAN
> = MORE THAN

N/A = NOT APPLICABLE
N/D = NOT DETERMINED
N/E = NOT ESTABLISHED

DATE ISSUED: 931230
DATE REVISED: 020422
UNK = UNKNOWN

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