

CHEMPAK INDUSTRIES INC -- CHLORINE BLEACH, SODA BLEACH -- 6810-00-598-7316

=====  
Product Identification  
=====

Product ID:CHLORINE BLEACH, SODA BLEACH

MSDS Date:01/01/1987

FSC:6810

NIIN:00-598-7316

MSDS Number: BPFYJ

=== Responsible Party ===

Company Name:CHEMPAK INDUSTRIES INC

Address:4941 E 39TH AVE

City:DENVER

State:CO

ZIP:80207-1089

Country:US

Info Phone Num:303-399-1240/FAX:303-399-1939

Emerg

ency Phone Num:303-852-0551

Preparer's Name:MARK DOMENICO

CAGE:CHEMP

=== Contractor Identification ===

Company Name:CHEMPAK INDUSTRIES, INC

Address:4941 EAST 39TH AVENUE

City:DENVER

State:CO

ZIP:80207-1089

Country:US

Phone:303-399-1240/FAX: 303-399-1939

CAGE:CHEMP

=====  
Composition/Information on Ingredients  
=====

Ingred Name:HYPOCHLOROUS ACID, SODIUM SALT (SARA III)

CAS:7681-52-9

RTECS #:NH3486300

Fraction by Wt: 5-7%

Other REC Limits:NONE SPECIFIED

OSHA PEL:1 PPM CL2, CEIL

ING  
ACGIH TLV:1 PPM 8 HR TWA  
EPA Rpt Qty:100 LBS  
DOT Rpt Qty:100 LBS

Ingred Name:SODIUM HYDROXIDE (SARA III)  
CAS:1310-73-2  
RTECS #:WB4900000  
Fraction by Wt: .9-1.3%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:2 MG/M3  
ACGIH TLV:C 2 MG/M3; 9293  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

===== Hazards Identification =====

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:AC  
UTE: CORROSIVE/STRONGLY IRRITATING  
TO EYES, SKIN, RESP TRACT. INHALATION OF FUMES MAY CAUSE PULMONARY  
EDEMA. INGESTION MAY CAUSE BURNS TO MOUTH, DIGESTIVE TRACT,  
ABDOMINAL DISTRESS. CHRONIC: CONSTAN T IRRITANT TO EYES AND THROAT.  
Explanation of Carcinogenicity:SODIUM HYPOCHLORITE AQUEOUS SOLUTION NOT  
LISTED BY NTP, IARC, & OSHA AS CARCINOGENIC.  
Effects of Overexposure:SEVERE RESPIRATORY TRACT IRRITATION & PULMONARY  
EDEMA. SKIN IRRITATION/BURNS. SEVERE EYE IRRITATION, BURNS,  
  
CORROSION. INFLAMMATION OF MOUTH/DIGESTIVE SYSTEM, BURNS &  
PERFORATION OF ESOPHAGUS & STOMAC H, VOMITING, CIRCULATORY  
COLLASPSE, CONFUSION, COMA.  
Medical Cond Aggravated by Exposure:N/K VIOLENT REACTIONS W/AMINES,  
AMMONIUM NITRATE, OXALATE, PHOSPHATE, ACETATE, CARBONATE,  
CELLULOSE, METHANOL, AGIRIDINE, PHENYL ACETONITRILE, ETHYLENE  
IMINE. HZD REACT W/SOAP, MAY BE HZD DURING#

===== First Aid Measures =====

First Aid:EYES:FLUSH W/WTR

15 MIN.GET MED AID IMMED. SKIN:FLUSH W/WTR  
REMOVING CONTAM CLOTH.IF RED/BLISTER,GET MED AID IMMED. INHAL:MOVE  
TO FRESH AIR,GIVE OXYGEN IF BREATH DIFFCLT.IF NOT BREATH,GIVE ARTIF  
RESP. GET IMMED MED AID.INGEST:NOTHING BY MOUTH TO  
UNCONSCIOUS.DON'T INDUCE VOMIT.GIVE LRG QTY MILK,GELATIN,WATER.IF  
VOMIT OCCURS,CLEAR AIRWAY, GIVE MORE TO DRINK.GET MED AID.AVOID  
VOMIT,LAVAGE,ACIDIC ANTID

===== Fire Fighting Measures =====

Flash Point:NON-FLAM  
MABLE

Lower Limits:N/K TO 13

Extinguishing Media:WTR SPRAY, FOG, FOAM, DRY CHEM, CO2, ETC FOR MAT'L  
IN SURROUNDING FIRE. USE WTR SPRAY FROM DISTANCE TO COOL CNTNRS,

Fire Fighting Procedures:SCBA & FULL PROTECT EQUIP. ACID CONTAM  
PRODUCES VERY IRRIT FUMES LIKE CHLORINE. BE AWARE OF RUNOFF FROM  
FIRE CNTRL METHODS. DO NOT RELEASE TO SEWERS/WATERBODIES

Unusual Fire/Explosion Hazard:SODIUM HYPOCHLORITE SOLN DECOMPOSES WHEN  
HEATED. DECOMP MAY CAUSE CNTNR RUPTURE/EXPLODE. IF SAFE REMOV

E  
CNTNR FROM AREA. REACTION/FIRE W/ORGANIC MAT'L/OXIDIZER.

===== Accidental Release Measures =====

Spill Release Procedures:NOTIFY SFTY PERSONNEL. PROVIDE VENT. PROTECT  
CLEANUP PERSONS AGAINST INHALATION/CONTACT W/LIQ. USE NONCOMBUST  
ABSORBENT. LRG SPILL: DIKE FAR AHEAD OF SPILL. NEUTRALIZE. KEEP ON  
ALKALINE SIDE, DILUTE W /LRG QTY WTR. KEEP FROM SEWERS/WATERWAYS.

Neutralizing Agent:REDUCING AGENTS.

===== Handling and Storage =====

Handling and Storage Precautions:DO NOT STORE ADJACENT TO CHEMICALS  
THAT MAY REACT IF SPILLAGE OCCURS. COMPLY W/DOT REGS WHEN SHIPPED.  
IF CLOSED CONTAINERS BECOME HEATED, VENT.

Other Precautions:DO NOT MIX OR CONTAM W/AMMONIA, HYDROCARBONS, ACIDS,  
ALCOHOLS, OR ETHERS. DO NOT REUSE CONTAINERS. DISPOSE IN MANNER  
MEETING GOVERMENT REGULATIONS.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:USE NIOSH/MSHA RSPRTR, FOLLOW

ING MFR'S

RECOMMENDATIONS, AS PRECAUTIONARY MEASURE WHERE AIRBORNE CONTAM MAY OCCUR. FOR EMERG & NON-ROUTINE OPERATIONS WEAR SCBA. WARNING: AIRPURIFY RESPIRATOR DON'T PROVIDE PROTECTION IN OXYGEN DEFICIENT ATMOSPHERES.

Ventilation:PROVIDE GOOD GENERAL ROOM VENT PLUS LOCAL EXHAUST AT POINT OF EMISSION.

Protective Gloves:RUBBER,NEOPRENE,VINYL--IMPERVIOUS GLOVES

Eye Protection:CHEM SAFETY GOGGLES, FULL FACE SHIELD.

Other Protective Equipment:WEAR IMPERVIOUS PROTECT CLOTHES INCLUDING

RUBBER SAFETY SHOES. EYE WASH & SAFETY/QUICK DRENCH SHOWERS CLOSE TO WORK AREAS.

Supplemental Safety and Health

# MIXING OPERATIONS OR IF IGNITED. INCOMPATIBLE W/TOILET BOWL CLEANERS CONTAINING BISULFITES.

===== Physical/Chemical Properties =====

HCC:B1

Boiling Pt:B.P. Text:230F DEC

Decomp Temp:Decomp Text:230F,110C

Vapor Pres:17.5 @ 20C

Spec Gravity:1.08

pH:11.5

Solubility in Water:100%

Appearance and Odor:CLEAR, PALE YELLOW OR GREENISH LIQUID WITH A  
C  
CHLORINE ODOR.

===== Stability and Reactivity Data =====

AMMONIA,UREA,OXIDIZABLE MAT'L,CHLORINE-LIBERATING ACIDS,OXYGEN-LIBERATING METALS(NICKEL/COPPER/TIN/MANGANESE/IRON).

Stability Condition to Avoid:STRONG OXIDIZER. STABILITY DECREASES WITH CONCENTRATION, HEAT, LIGHT, DECREASES IN PH & CONTAMINATION BY METALS.

Hazardous Decomposition Products:THERMAL OXIDATIVE DECOMPOSITION OF SODIUM HYPOCHLORITE CAN PRODUCE TOXIC FUMES OF SODIUM OXIDE AND CHLORINE

NE.

===== Disposal Considerations =====

Waste Disposal Methods:REDUCE W/AGENTS SUCH AS BISULFITES OR FERROUS SALT SOLUTIONS. SOME HEAT WILL BE PRODUCED. KEEP ON ALKALINE SIDE & DILUTE WITH COPIOUS AMOUNTS OF WATER. MAIN END-PRODUCT IS SALT WATER. COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department

of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.