

CHEMPAK INDUSTRIES INC -- CHLORINE BLEACH, SODA BLEACH CID A-A-14278 --
6810-00-598-7316

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

Product ID:CHLORINE BLEACH, SODA BLEACH CID A-A-14278

MSDS Date:07/01/1992

FSC:6810

NIIN:00-598-7316

MSDS Number: BTTHR

=== Responsible Party ===

Company Name:CHEMPAK INDUSTRIES INC

Address:4941 E 39TH AVE

City:DENVER

State:CO

ZIP:80207

Country:US

Info Phone Num:303-399-1240

Emergency Phone Num:303-399-1240

Preparer's Name:MARK DOMENICO

CAGE:0YS14

=== Contractor Identification ===

Company Name:CHEMPAK INDUSTRIES, INC

Address:4941 EAST 39TH AVENUE

Box:City:DENVER

State:CO

ZIP:80207-1089

Country:US

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

CAGE:0YS14

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

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

CAS:7681-52-9

RTECS #:NH3486300

Fraction by Wt: 5.2-6.6%

Other REC Limits

:NONE SPECIFIED
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: 0.3-0.7%
Other REC Limits:NONE SPECIFIED
OSHA PEL:2 MG/M3
ACGIH TLV:C 2 MG/M3; 9394
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:ACUTE: CONTACT
MAY CAUSE SEVERE SKIN &
EYE IRRITATION, BURNS, CORROSION. INHALATION MAY CAUSE SEVERE
RESPIRATORY TRACT IRRITATION. INGESTION MAY CAUSE INFLAMMATION OF
MOUTH/DIGESTIVE SYSTEM, BURNS & PERFORATIONS OF ESOPHAGUS/STOMACH.
CHRONIC: PROLONGED/REPEATED EXPOSURE MAY CAUSE EYE & THROAT
IRRITATION.

Explanation of Carcinogenicity:SODIUM HYPOCHLORITE AQUEOUS SOLUTION NOT
LISTED BY NTP, IARC, & OSHA AS CARCINOGENIC.

Effects of Overexposure:INHALED: COUGHING, SHORTNESS OF BREATH, CH
EST

PAIN, TIGHTNESS IN CHEST. EYES: BURNING SENSATION, PAIN, TEARING,
REDNESS, BLURRED VISION. SKIN: REDNESS, BURNS, SWELLING, PAIN OR
DISCOMFORT. INGESTED: BURNS TO MOUTH/THROAT/ESOPHAGUS,
STOMACHPAIN, NAUSEA, VOMITING, CONFUSION, COMA.

Medical Cond Aggravated by Exposure:NOT DETERMINED.

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

First Aid:EYES-FLUSH WITH LOTS OF WATER FOR 15 MINUTES,HOLD LIDS
OPEN.GET IMMEDIATE MEDICAL ATTENTION.SKIN-FLUSH WITH
LOTS OF WATER

WHILE REMOVING CLOTHES.IF SKIN BURNS/BLISTERS,GET MEDICAL
ATTENTION.INHALED-RE MOVE TO FRESH AIR.GIVE OXYGEN IF BREATHING
DIFFICULT; ARTIFICIAL RESPIRATION IF STOPPED.GET MEDICAL
ATTENTION.INGESTED-DO NOT INDUCE VOMITING!!IF CONSCIOUS,GIVE
MILK/GELATIN/WATER.GET MEDICAL ATTENTION

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

Flash Point:NON-FLAMMABLE

Extinguishing Media:MEDIA APPROPRIATE FOR SURROUNDING FIRE. USE WATER
SPRAY TO COOL F

IRE EXPOSED CONTAINERS.

Fire Fighting Procedures:WEAR SCBA & FULL PROTECT EQUIP. BE AWARE OF RUNOFF FROM FIRE CONTROL METHODS; DO NOT RELEASE TO SEWERS OR WATERWAYS.

Unusual Fire/Explosion Hazard:SODIUM HYPOCHLORITE SOLN DECOMPOSES WHEN HEATED. DECOMP MAY CAUSE CNTNR RUPTURE/EXPLODE. IF SAFE REMOVE CNTNR FROM AREA. REACTION/FIRE W/ORGANIC MAT'L/OXIDIZER.

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

Spill Release Procedures:VENTILATE AREA.WEAR PROPER PROTECTIVE

CLOTHES/EQUIPMENT.USE NONCOMBUSTIBLE ABSORBENTS TO PICK-UP SPILLED MATERIAL & PLACE IN A CONTAINER FOR LATER DISPOSAL.NEUTRALIZE IF FEASIBLE,KEEPING SLIGHTLY ALKA LINE & DILUTE.DO NOT FLUSH TO SEWER OR WATERWAYS.

Neutralizing Agent:BISULFITES, FERROUS SALT SOLUTIONS.

===== 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 WITH AMMONIA, HYDROCARBONS, ACIDS, ALCOHOLS, OR ETHERS. DO NOT REUSE CONTAINERS. DISPOSE IN MANNER MEETING GOVERMENT REGULATIONS.

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

Respiratory Protection:IF ENGINEERING CONTROLS FAIL; USE NIOSH/MSHA APPROVED RESPIRATOR. IF EMERGENCY OR NON-ROUTINE USE OCCURS; WEAR SELF- CONTAINED BREATHING APPARATUS. USE RESPIRATORY PROTECTION IA

W
29 CFR 1910 & MANUFAC TURER'S RECOMMENDATIONS.

Ventilation:PROVIDE GOOD GENERAL ROOM VENTILATION WITH LOCAL EXHAUST AT POINTS OF EMISSION TO MAINTAIN EXPOSURE BELOW TLV.

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 STATION & SAFETY SHOWER NEAR WORK AREAS.

Work Hygienic Practices:WASH HANDS AFTER USE & BEFORE EATIN

G, DRINKING,
OR SMOKING. LAUNDRER CONTAMINATED CLOTHES BEFORE REUSE.

Supplemental Safety and Health

CONTRACT NUMBER-GS-10F-49891. EPA REGISTRATION NUMBER-65743-1. MSDS
ENTERED BY DLA-HMIS UNDER PROJECT FOR GSA.

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

HCC:B1

Boiling Pt:B.P. Text:>230F,>110C

Decomp Temp:Decomp Text:230F,110C

Vapor Pres:17.5 MM HG

Spec Gravity:1.08

pH:>11.5

Solubility in Water:COMPLETE

Appearance and Odor:CLEAR, PALE YELLOW OR GREENISH LIQUID W
ITH A

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.

Conditions to Avoid Polymerization:MATERIAL IS NOT KNOWN TO POLYMERIZE.

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

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

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

Th

is 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.