

KREVIT H CO INC -- SODA BLEACH SOLUTION -- 6810-01-029-5565

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

Product ID:SODA BLEACH SOLUTION

MSDS Date:08/19/1996

FSC:6810

NIIN:01-029-5565

Status Code:A

MSDS Number: CJNQQ

=== Responsible Party ===

Company Name:KREVIT H CO INC

Address:73 WELTON STREET

Box:9433

City:NEW HAVEN

State:CT

ZIP:06534

Country:US

Info Phone Num:203-772-3350

Emergency Phone Num:800-922-662

6

Resp. Party Other MSDS Num.:0236

CAGE:66894

=== Contractor Identification ===

Company Name:INDUSTRIAL CHEMICAL COMMODITIES INC

Address:15944 DERWOOD RD

Box:City:ROCKVILLE

State:MD

ZIP:20855

Country:US

Phone:800-284-5279

Contract Num:SP0450-99-M-NB61

CAGE:1ELU0

Company Name:KREVIT H CO INC

Address:73 WELTON STREET

Box:9433

City:NEW HAVEN

State:CT

ZIP:06534

Country:US

Phone:203-772-3350

CAGE:66894

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

Ingred Name:SODIUM HYPOCHLOR

ITE (CERCLA) (AS AVAILABLE CHLORINE)

CAS:7681-52-9

RTECS #:NH3486300

Minimum % Wt:5.

Maximum % Wt:15.

Other REC Limits:NONE RECOMMENDED

EPA Rpt Qty:100 LBS

DOT Rpt Qty:100 LBS

Ingredient Name:SODIUM HYDROXIDE (CERCLA)

CAS:1310-73-2

RTECS #:WB4900000

= Wt:1.

Other REC Limits:NONE RECOMMENDED

OSHA PEL:2 MG/M3

ACGIH TLV:C 2 MG/M3; 9596

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingredient Name:WATER

CAS:7732-18-5

RTECS #:ZC0110000

Fraction by Wt: BALANCE

Other REC Limits:NONE RECOMMENDED

=====

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

LD50 LC50 Mixture:LD50 (ORAL, RAT) 8.91 MG/KG (12% SOLN)

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:TARGET ORGANS: EYES, SKIN, RESPIRATORY SYSTEM (HMIS). ACUTE: CORROSIVE. INHALATION:. MIST OR FUMES CAN CAUSE BRONCHIAL IRRITATION, COUGH, DIFFICULT BREATHING,

INFLAMMATION OF MOUTH, NAUSEA, AND PULMONARY EDEMA. EYE/SKIN: LIQUEFIED CONTACT CAN PRODUCE IRRITATION OF SKIN WITH BLISTERING

AND

ECZEMA. DIRECT CONTACT WITH EYES MAY CAUSE REDNESS, PAIN, PERMANENT DAMAGE. INGESTION: FEW OUNCES CAN CAUSE CORROSION OF MUCOUS MEMBRANES, SWELLING OF THROAT, PERFORATION OF ESOPHAGUS AND STOMACH, VOMITING, COLITIC HYPOTENSION, CIRCULATORY COLLAPSE, CONVULSIONS, COMA OR DEATH. AT 15%, AS LITTLE AS 1 OZ MAY BE LETHAL. CHRONIC: NOT CARCINOGENIC.

Effects of Overexposure:CORROSIVE. MIST OR FUMES CAN CAUSE BRONCHIAL IRRITATION, COUGH, DIFFICULT BREATHING, INFLAMMATIO

N OF MOUTH,

NAUSEA, AND PULMONARY EDEMA. CONTACT CAN PRODUCE IRRITATION OF SKIN WITH BLISTERING AND ECZEMA. DIRECT CONTACT WITH EYES MAY CAUSE REDNESS, PAIN, PERMANENT DAMAGE. INGESTION OF FEW OUNCES CAN CAUSE CORROSION OF MUCOUS MEMBRANES, SWELLING OF THROAT, PERFORATION OF ESOPHAGUS AND STOMACH, VOMITING, COLITIC HYPOTENSION, CIRCULATORY COLLAPSE, CONVULSIONS, COMA OR DEATH. AT 15% CONCENTRATION, AS LITTLE AS 1 OZ MAY BE LETHAL.

Medical Cond Aggravated by Exposure

:NONE SPECIFIED BY MANUFACTURER.

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

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. EYE OR SKIN CONTACT: FLUSH EYES AND SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. IF IRRITATION OCCURS, CONSULT A PHYSICIAN. THOROUGHLY CLEAN CLOTHI

NG AND SHOES

BEFORE REUSE OR DISCARD. INGESTION: IF CONSCIOUS, DRINK LARGE QUANTITIES OF WATER. DO NOT INDUCE VOMITING. TAKE IMMEDIATELY TO A HOSPITAL OR PHYSICIAN. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

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

Flash Point:NONFLAMMABLE

Fire Fighting Procedures:FIREFIGHTERS SHOULD WEAR NIOSH/MSHA APPROVED PRESSURE-DEMAND SELF CONTAINED BREATHING APPARATUS. USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS.

Unusual Fire/Explosion Hazard:CAN DECOMPOSE TO FORM IRRITATING CHLORINE GAS AND OXYGEN.

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

Spill Release Procedures:IMMEDIATELY EVACUATE AREA. PROVIDE MAXIMUM VENTILATION. WEAR PROTECTIVE EQUIPMENT. LARGE SPILLS: RECOVER SPILLED MATERIAL ON ADSORBENTS SUCH AS VERMICULITE. SWEEP INTO CLOSED CONTAINERS FOR DISPOSAL. DO NOT USE COMBUSTIBLE SUCH AS SAWDUST. THOROUGHLY WET VACUUM AREA. DO NOT FLUSH TO

SEWER. SMALL

SPILLS (LESS THAN 10 GALLONS): DILUTE WITH LARGE AMOUNT OF WATER AND THEN FLUSH TO SANITARY SEWER.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:WHEN HANDLING, WEAR GLOVES, SAFETY GOGGLES AND RESPIRATORY PROTECTION. STORE IN A COOL, DRY, WELL-VENTILATED AREA. AVOID EXCESSIVE STORAGE TEMPERATURES AND DIRECT SUNLIGHT. STORE AWAY FROM ACIDS AND ORGANICS. STORE

ONLY IN

CLOSED, PROPERLY LABELED CONTAINERS.

Other Precautions:AVOID CONTACT WITH EYES AND SKIN. MAY CAUSE BURNS TO EYES AND SKIN. AVOID INHALATION OF VAPORS, MISTS AND FUMES. USE WITH ADEQUATE VENTILATION. VENTILATION MUST BE SUFFICIENT TO MINIMIZE EMPLOYEE EXPOSURE TO SODIUM HYPOCHLORITE. WASH THOROUGHLY AFTER HANDLING. DO NOT SWALLOW. DO NOT EAT, DRINK OR SMOKE IN WORK AREA.

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

Respiratory Protection:USE

A HALF OR FULL FACEPIECE ACID GAS CHEMICAL

CARTRIDGE RESPIRATOR WHEN EXPOSURES TO SODIUM HYPOCHLORITE ARE LIKELY. AN APPROPRIATE PARTICULATE PRE-FILTER IS ALSO REQUIRED WHEN MISTS ARE PRESENT. SIMILAR PROTECTION SHOULD BE WORN WHILE CLEANING UP SPILLS OR LEAKS IF IRRITATION OCCURS. RESPIRATORS MUST BE APPROVED BY NIOSH/MSHA.

Ventilation:USE LOCAL OR GENERAL VENTILATION TO MINIMIZE EMPLOYEE EXPOSURES AS NECESSARY.

Protective Gloves:NEOPRENEE OR NITRILE GLOVES

Eye Protection:

SPLASH-PROOF CHEMICAL GOGGLES.

Other Protective Equipment:USE RUBBER/PLASTIC BOOTS, APRON OR CHEMICAL SUITS WHEN NECESSARY TO PREVENT SKIN CONTACT.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING.AVOID CONTACT WITH EYES AND SKIN,INHALATION OF VAPORS/MISTS/FUMES.DO NOT EAT,DRINK OR SMOKE IN WORK AREA.

Supplemental Safety and Health

NOTES TO PHYSICIAN: DO NOT ADMINISTER ACIDIC ANTIDOTES OR SODIUM BICARBONATE FOLLOWING SODIUM HYPOCHLORITE OVEREXPOSURE. AN OUNCE OF 1% S

ODIUM THIOSULFATE OR MILK OF MAGNESIA IS HELPFUL.

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

HCC:B1

Boiling Pt:B.P. Text:DECOMPOSES

Melt/Freeze Pt:=-14.C, 6.8F

Decomp Temp:Decomp Text:@760MMHG

Vapor Pres:17.5MMHG@20C

Spec Gravity:1.21@ 20C(H2O=1)

pH:APPROX 13

Evaporation Rate & Reference:1 (WATER = 1)

Solubility in Water:COMPLETE

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

Percent Volatiles by Volume:100%

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

Stability Indicator/Materials to Avoid:YES

AVOID MIXING WITH ACIDS(LIBERATES CHLORINE), AMMONIA, UREA, OXIDIZING
MATERIALS, METALS SUCH AS NICKEL, COPPER, TIN, MANGANESE, IRON
(WHICH CAUSE LIBERATION OF OXYGEN).

Stability Condition to Avoid:NONE

Hazardous Decomposition Products:IN A FIRE SODIUM HYPOCHLORITE MAY
DECOMPOSE PRODUCING IRRITATING CHLORINE GAS, OXYGEN.

===== Toxicological Information =====

To

xicological Information:TOXICITY DATA: LC50 INHALATION: NOT
ESTABLISHED. LD50 DERMAL: NOT ESTABLISHED. SKIN/EYE IRRITATION:
(RAT) 8.91 MG/KG (12% SOLUTION). FISH, LC50 (LETAHL CONCENTRATION):
UNKNOWN.

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

Waste Disposal Methods:THE MANUFACTURER RECOMMENDES DISPOSAL IN AN
APPROVED HAZARDOUS WASTE MANAGEMENT FACILITY. CARE MUST BE TAKEN
WHEN USING OR DISPOSING OF CHEMICAL, MATERIALS AND/OR THEIR
CONTAINERS TO

PREVENT ENVIRONMENTAL CONTAMINATION. IT IS YOUR DUTY TO DISPOSE OF THE CHEMICAL MATERIALS AND/OR THEIR CONTAINERS IN ACCORDANCE WITH ALL REGULATIONS REGARDING DISPOSAL

===== Regulatory Information =====

SARA Title III Information: A. 311/312 CATEGORIES - ACUTE AND REACTIVITY, B. NOT LISTED IN SECTION 313, C. NOT LISTED AS AN "EXTREMELY HAZARDOUS SUBSTANCE" IN SECTION 302. CERCLA: LISTED IN TABLE 302.4 OF 40 CFR PART 302 AS A HAZARDOUS SUBSTANCE WITH A REPORTABLE QUANTITY OF 100 POUNDS. RELEASES TO AIR, LAND OR WATER WHICH EXCEED THE R.Q. MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER, 1-800-424-8801.

Federal Regulatory Information: TSCA: SODIUM HYPOCHLORITE IS ON THE TSCA INVENTORY UNDER CAS # 7681-52-9.

===== Other Information =====

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.