

HYDRITE CHEMICAL CO -- SODIUM HYPOCHLORITE SOLUTION-15 -- 6810-01-029-5565

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

Product ID:SODIUM HYPOCHLORITE SOLUTION-15

MSDS Date:01/13/2000

FSC:6810

NIIN:01-029-5565

Status Code:A

MSDS Number: CKDTV

=== Responsible Party ===

Company Name:HYDRITE CHEMICAL CO

Address:300 N. PATRICK BLVD

City:BROOKFIELD

State:WI

ZIP:53008-0948

Country:US

Info Phone Num:414-354-3750

Emergency Phone Num:414-277-1311

Resp. Party Other MSDS Num.:CL1500

Preparer's Name:KJV

Chemtec Ind/Phone:(800)424-9300

CAGE:53270

=== Contractor Identification ===

Company Name:HYDRITE CHEMICAL CO

Address:300 N. PATRICK BLVD

Box:City:BROOKFIELD

State:WI

ZIP:53008-0948

Country:US

Phone:414-354-3750

CAGE:53270

Company Name:TELECHEM INTERNATIONAL, INC

Address:524 E WEDDELL DRIVE SUITE 3

Box:City:SUNNYVALE

State:CA

ZIP:94089-2115

Country:US

Phone:916-941-3688

Contract Num:SP0450-00-M-D757

CAGE:1KH

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 ===== Composition/Information on Ingredients =====
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Ingred Name:SODIUM HYPOCHLORITE (SARA III)
 CAS:7681-52-9
 RTECS #:NH3486300
 = Wt:12.5
 EPA Rpt Qty:100 LBS
 DOT Rpt Qty:100 LBS

Ingred Name:WATER
 CAS:7732-18-5
 RTECS #:ZC0110000
 = Wt:87.5

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 ===== Hazards Identification =====
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LD50 LC50 Mixture:NO DATA PROVIDED BY RESPONSIBLE PARTY.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
 Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

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Health Hazards Acute and Chronic:ACUTE-EYE CONTACT:CORROSIVE. CAUSES SEVERE BURNS & DESTRUCTION OF TISSUES. SKIN CONTACT: CORROSIVE. CAUSES SEVERE IRRITATION AND BURNS. SKIN ABSORPTION: NO ABSORPTION HAZARD EXPECTED UNDER NORMAL USE. INHALATION: CORROSIVE. CAUSES SEVERE IRRITATION AND BURNS. INGESTION: CORROSIVE. CAUSES SEVERE DAMAGE AND BURNS. MAY CAUSE DAMAGE TO THE MOUTH AND ESOPHAGUS. CHRONIC: NO DATA PROVIDED BY RESPONSIBLE PARTY.

Explanation of Carcinogenicity:THIS

PRODUCT DOES NOT CONTAIN GREATER

THAN 0.1% OF THE KNOWN OR POTENTIAL CARCINOGENS LISTED IN NTP, IARC, OR OSHA.

Effects of Overexposure:EYES: SEVERE IRRITATION, BURNS, PERMANENT EYE DAMAGE, BLINDNESS. SKIN CONTACT: DEEP ULCERATION, SCARRING, REDNESS, SWELLING, BURNS, BLISTERING, TISSUE DESTRUCTION. INHALATION: COUGHING, DIFFICULTY BREATHING, PULMONARY EDEMA, NAUSEA, IRRITATION OF NOSE, THROAT AND MUCOUS MEMBRANES. INGESTION: VOMITING, COLITIS, HYPOTENSION, PERFORATION

OF THE ESOPHAGUS,

CIRCULATORY COLLAPSE, CONVULSIONS, COMA, DEATH.

Medical Condition Aggravated by Exposure:RESPIRATORY SYSTEM DISORDERS.

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 ===== First Aid Measures =====
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First Aid:EYES: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, HOLD LIDS OPEN. SKIN : IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHES & SHOES. GET MEDICAL ATTENTION IMMEDIATELY. DO NOT REUSE CLOTHING & SHOES

ES UNTIL CLEANED. DO NOT APPLY OILS OR OINTMENTS UNLESS ORDERED BY PHYSICIAN. INHALATION: REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. GET MEDICAL ATTENTION IMMEDIATELY. INGESTION: IF CONSCIOUS, GIVE A QUART OF WATER. DO NOT INDUCE VOMITING! CALL A PHYSICIAN IMMEDIATELY.

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

Flash Point: NONE

Extinguishing Media: FOR FIRES IN AREA USE APPROPRIATE MEDIA. FOR

EXAMPLE: WATER SPRAY, CARBON DIOXIDE, ALCOHOL FOAM, OR DRY CHEMICAL.

Fire Fighting Procedures: 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 VAPORS.

Unusual Fire/Explosion Hazard: MAY GENERATE POTENTIALLY EXPLOSIVE OXYGEN.

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

Spill Release Procedures: EVACUATE UNPROTECTED PERSONNEL. MAINTAIN ADEQUATE VENTILATION. FOLLOW PERSONAL PROTECTIVE EQUIPMENT RECOMMENDATIONS ELSEWHERE IN MSDS. NEVER EXCEED OCCUPATIONAL EXPOSURE LIMIT. CONTAIN SPILL, PLACE IN TO DRUMS FOR PROPER DISPOSAL. FLUSH REMAINING AREA WITH WATER AND DISPOSE OF PROPERLY. AVOID DIRECT DISCHARGE TO SEWERS AND SURFACE WATERS. NOTIFY AUTHORITIES IF ENTRY OCCURS.

Neutralizing Agent: NO DATA PROVIDED BY RESPONSIBLE PARTY.

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

Handling and Storage Precautions: 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.

Other Precautions: AVOID CONTACT WITH EYES, SKIN & 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 & CAN BE DANGEROUS. DO NOT CUT, WELD, BRAZE, HEAT OR EXPOSE TO HEAT OR FLAME.

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===== Exposure Controls/Personal Protection =====
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Respiratory Protection:IF VAPORS OR MISTS ARE PRESENT, WEAR:
NIOSH-APPROVED RESPIRATOR. NIOSH-APPROVED SELF-CONTAINED RESPIRATOR.
DO NOT

EXCEED LIMITS ESTABLISHED BY RESPIRATOR MANUFACTURER. ALL
RESPIRATORY PROGRAMS MUST COMPLY WITH OSHA 29 CFR 1910.134 AND
ANSI Z88.2 REQUIREMENTS AND MUST FOLLOWED WHENEVER WORKPLACE
CONDITIONS REQUIRE A RESPIRATOR'S USE.

Ventilation:LOCAL EXHAUST VENTILATION, PROCESS ENCLOSURES OR OTHER
ENGINEERING CONTROLS ARE REQUIRED WHEN HANDLING OR USING THIS
PRODUCT TO AVOID OVEREXPOSURE.

Protective Gloves:RUBBER (LATEX), PVC, NEOPRENE.

Eye Protection:CHEMICAL SAFETY GOGGLES & FULL FACE
SHIELD. DO NOT WEAR
CONTACTS.

Other Protective Equipment:EYE-WASH STATION. SAFETY SHOWER. RUBBER
APRON. CHEMICAL SAFETY SHOES. PROTECTIVE CLOTHING.

Work Hygienic Practices:WASH WITH SOAP & WATER BEFORE MEAL TIMES & AT
THE END OF EACH WORK SHIFT. GOOD MANUFACTURING PRACTICES REQUIRE
GROSS AMOUNTS OF ANY CHEMICAL BE REMOVED FROM SKIN AS SOON AS
PRACTICAL.

Supplemental Safety and Health

NO DATA PROVIDED BY RESPONSIBLE PARTY.

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===== Physical/Chemical Properties =====
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HCC:B1

Melt/Freeze Pt:=-23.3C, -10.F

Vapor Density:>1

Spec Gravity:1.210 @ 25C

pH:>12

Evaporation Rate & Reference:N/D (NBUAC=1)

Solubility in Water:COMPLETE

Appearance and Odor:CLEAR, YELLOW LIQUID, CHLORINE ODOR

Percent Volatiles by Volume:100 (WT)

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===== Stability and Reactivity Data =====
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Stability Indicator/Materials to Avoid:NO

AMMONIA, ORGANIC MATERIALS, ACIDS, AMINES, AMMONIUM SALTS, AZIRIDINE,
METHANOL, REDUCING AGENTS, OXIDIZING AGENT

TS, IRON, COPPER,
BISULFATES. PHENYL ACETONITRILE. CELLULOSE ETHYLENE DIAMINE.
OXIDIZABLE METALS. SOAPS.

Stability Condition to Avoid:AVOID TEMPERATURES GREATER THAN 70F. AVOID
EXPOSURE TO LIGHT.

Hazardous Decomposition Products:CHLORINE-CONTAINING GASES. REACTS WITH
ACIDS TO RELEASE POISONOUS CHLORINE GAS. SODIUM OIDE.

Conditions to Avoid Polymerization:WILL NOT OCCUR UNDER NORMAL
CONDITIONS.

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

Toxicological

Information:LD50 ORAL: MOUSE: 5800 MG/KG (SODIUM
HYPOCHLORITE. LD50 SKIN: NO DATA. LC50 INHALATION: RAT: 293 PPM/1 H
(CHLORINE).

===== Ecological Information =====

Ecological:ECOTOXICOLOGICAL INFORMATION: NO DATA AVAILABLE. CHEMICAL
FATE DATA: NO DATA AVAILABLE.

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

Waste Disposal Methods:HAZARDOUS WASTE NUMBER: D002. DISPOSAL METHOD:
DISPOSE OF IN A PERMITTED HAZARDOUS WASTE MAN
AGEMENT FACILITY
FOLLOWING ALL LOCAL, STATE AND FEDERAL REGULATIONS. IF APPROVED,
FLUSH TO SEWER WITH LARGE QUANTITIES OF WATER.

===== MSDS Transport Information =====

Transport Information:US DOT: PROPER SHIPPING NAME: HYPOCHLORITE
SOLUTION. HAZARD CLASS: 8. IDENTIFICATION NUMBER: UN1791. PACKING
GROUP: III. LABEL REQUIRED: CORROSIVE. REPORTABLE QUANTITY (RQ):
100 LBS (SODIUM HYPOCHLORITE).

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

SARA Title III Information:SARA TITLE III SECTION 311/312 CATEGORY:
IMMEDIATE (ACUTE) HEALTH HAZARD: YES; DELAYED (CHRONIC) HEALTH
HAZARD: NO; FIRE HAZARD: YES; SUDDEN RELEASE OF PRESSURE HAZARD:
NO; REACTIVE HAZARD: NO. SARA TITLE II SECTION 302/304/313: NO.

Federal Regulatory Information:CERCLA REPORTABLE QUANTITY (RQ, IN LBS):
100. TSCA INVENTORY STATUS: ALL COMPONENTS OF THIS PRODUCT ARE ON
THE TSCA INVENTORY OR ARE EXEMPT FROM TSCA INVENTORY REQUIREM

ENTS.

EPA REGISTRATION NUMBER: 2 686-20001.

State Regulatory Information:THE FOLLOWING COMPONENTS ARE LISTED UNDER CALIFORNIA PROPOSITION 65: NONE. THE FOLLOWING COMPONENTS ARE LISTED AS A WISCONSIN HAP: NONE.

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

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