



SODIUM HYPOCHLORITE SOLUTION
MATERIAL SAFETY DATA SHEET

10% to 20% by volume

General Information

Item Name: SODIUM HYPOCHLORITE SOLUTION
Company's Name: Borden & Remington
Company's Street: 63 Water St
Company's City: Fall River
Company's State: Massachusetts
Company's Country: US
Company's Zip Code: 02722
Company's Emerg Ph #: 508-675-0096 Facility 800-424-9300(CHEMTREC)
Company's Info Ph #: 508-675-0096
Date MSDS Prepared: July 1996
Safety Data Review Date: January 2010
Supply Item Manager: J. Carey
Spec Type, Grade, Class: Filtered
Hazard Characteristic Code:
Unit Of Issue: gallon/pounds
Unit Of Issue Container Qty: 30, 55, 260, 300 gallons/ 300, 550, 2600, 3000 pounds aprx
Type Of Container: HDPE drums and Intermediate Bulk Containers

Ingredients/Identity Information

Proprietary: NO
Ingredient: SODIUM HYPOCHLORITE (SARA III)
Ingredient Sequence Number: 01
Percent: 10-20 by volume
NIOSH (RTECS) Number: NH3486300
CAS Number: 7681-52-9
OSHA PEL: 1 ppm
ACGIH TLV: 1 ppm
ACUTE ORAL 5 G/KG

Proprietary: NO
Ingredient: SODIUM CHLORIDE
Ingredient Sequence Number: 02
Percent: 7-15 approx BY VOLUME
NIOSH (RTECS) Number: VZ4725000
CAS Number: 7647-14-5
OSHA PEL: NOT ESTABLISHED
ACGIH TLV: NOT ESTABLISHED

Proprietary: NO
Ingredient: SODIUM HYDROXIDE (SARA III)
Ingredient Sequence Number: 03
Percent: +/- 1 by volume/ per client
NIOSH (RTECS) Number: WB4900000
CAS Number: 1310-73-2
OSHA PEL: 2 MG/M3
ACGIH TLV: C 2 MG/M3; 9293

Proprietary: NO
Ingredient: WATER
Ingredient Sequence Number: 04
Percent: 88 -64 by volume
NIOSH (RTECS) Number: ZC0110000
CAS Number: 7732-18-5
OSHA PEL: NOT ESTABLISHED
ACGIH TLV: NOT ESTABLISHED

Physical/Chemical Characteristics

Appearance And Odor: GREENISH-YELLOW LIQUID. CHLORINE-LIKE ODOR.
Boiling Point: 220 F
Specific Gravity: 1.1 to 1.26
Decomposition Temperature: AS HEATED
Evaporation Rate And Ref: NO DATA
Solubility In Water: 100%
pH: 12.5
Autoignition Temperature: NONE

Fire and Explosion Hazard Data

Flash Point: NOT APPLICABLE
Extinguishing Media: NOT APPLICABLE
Special Fire Fighting Proc: USE WATER TO COOL CONTAINERS EXPOSED TO FIRE. ON SMALL FIRE, USE DRY CHEMICAL, CARBON DIOXIDE OR WATER SPRAY. ON LARGE FIRES, USE WATER IN FLOODING AMOUNTS FOG.

Unusual Fire And Expl Hazrds: IN CASE OF FIRE, HAZARDOUS CONCENTRATIONS OF CHLORINE MAY BE FORMED.

Reactivity Data

Stability: YES

Cond To Avoid (Stability): HIGH HEAT, SUNLIGHT AND ULTRAVIOLET LIGHT.

Materials To Avoid: IRON, COPPER, ACIDS, AMMONIUM COMPOUNDS, ORGANICS, OTHER OXIDIZERS.

Hazardous Decomp Products: CHLORINE GAS

Hazardous Polymerization Occur: NO

Health Hazard Data

LD50-LC50 Mixture: ORAL LD50 (RAT) IS 5 G/KG

Route Of Entry - Inhalation: YES

Route Of Entry - Skin: YES

Route Of Entry - Ingestion: YES

Health Haz Acute And Chronic: INHALATION-IRRITATING TO THE NOSE, MOUTH, THROAT & LUNGS. EYE-SEVERE IRRITATION, IMPAIRED VISION & CORNEAL DAMAGE. SKIN-SEVERE IRRITATION, DESTRUCTION OF THE DERMIS WITH IMPAIRMENT OF THE SKIN. INGESTION-IRRITATION CAN OCCUR TO THE ENTIRE GASTROINTESTINAL TRACT, INCLUDING THE STOMACH AND INTESTINES.

Carcinogenicity - NTP: NO

Carcinogenicity - IARC: NO

Carcinogenicity - OSHA: NO

Explanation Carcinogenicity: THIS PRODUCT HAS BEEN SHOWN NOT TO BE CARCINOGENIC. IT IS NOT INCLUDED AS A CARCINOGEN BY IARC, NTP, OSAH OR EPA.

Signs/Symptoms Of Overexp: INHALATION-BURNS TO THE RESPIRATORY TRACT, SHORTNESS OF BREATH, WHEEZING, CHOKING, CHEST PAIN AND IMPAIRED LUNG FUNCTION. EYE-SEVERE BURNS. SKIN-SEVERE BURNS, REDNESS, SWELLING & SCAB FORMATION. INGESTION-NAUSEA, VOMITING, DIARRHEA, ABDOMINAL PAIN, BLEEDING AND/OR TISSUE ULCERTAIION.
Med Cond Aggravated By Exp: ASTHMA AND RESPIRATORY AND CARDIOVASCULAR DISEASE.

Emergency/First Aid Proc:

EYES-IMMEDIATELY FLUSH WITH WATER FOR 15 MIN. CALL PHYSICIAN.
SKIN-IMMEDIATELY FLUSH WITH WATER FOR 15 MIN. CALL PHYSICIAN.
REMOVE SOILED CLOTHING.

INGESTION-IMMEDIATELY DRINK LARGE AMOUNTS OF WATER. DO NOT INDUCE VOMITING. CALL PHYSICIAN. DO NOT GIVE ANYTHING IF PERSON IS UNCONSCIOUS /HAVING CONVULSIONS.
INHALATION-STOP WORK& MOVE TO FRESH AIR. IF BREATHING IS HARD, GIVE OXYGEN. CALL PHYSICIAN.

Precautions for Safe Handling and Use

Steps If Matl Released/Spill: COMPATIBLE ABSORBENTS: non-flammable SAND, CLAY, COMMERCIAL ABSORBENT. RESPONSE TO THIS MATERIAL REQUIRES THE USE OF SELF-CONTAINED BREATHING APPARATUS. ADDITIONAL PROTECTIVE CLOTHING MUST BE WORN TO PREVENT PERSONAL CONTACT WITH THIS MATERIAL.

Neutralizing Agent: bisulfites or ferrous salts; maintain on alkaline side and absorb with non-organic as specified

Waste Disposal Method: AS A NONHAZARDOUS LIQUID WASTE, IT SHOULD BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS BY A LICENSED TSDF IN A WASTEWATER TREATMENT SYSTEM. CARE MUST BE TAKEN TO PREVENT ENVIRONMENTAL CONTAMINATION FROM THE USE OF THIS MATERIAL.

Precautions-Handling/Storing: STORE IN A COOL, DRY WELL-VENTILATED AREA. AVOID HIGH TEMPERATURES & EXPOSURE TO & DIRECT SUNLIGHT. DO NOT STORE AT TEMPERATURES BELOW: 15-21 DEG. F.

Other Precautions: STORE IN THE DARK AT THE LOWEST POSSIBLE TEMPERATURE, BUT KEEP FROM FREEZING.

DO NOT TAKE INTERNALLY. AVOID CONTACT WITH SKIN OR EYES, UPON CONTACT WITH SKIN OR EYES, WASH OFF. WITH WATER.

Control Measures

Respiratory Protection: RESPIRATORY PROTECTION NOT NORMALLY NEEDED SINCE THE VOLATILITY AND TOXICITY ARE LOW. IF VAPORS, MISTS, OR AEROSOLS ARE GENERATED, WEAR A NIOSH/MSHA APPROVED RESPIRATOR.

Ventilation: LOCAL EXHAUST VENTILATION IS RECOMMENDED IF VAPORS, MISTS OR AEROSOLS ARE GENERATED. OTHERWISE, USE GENERAL EXHAUST VENT

Protective Gloves: IMPERMEABLE GLOVES.

Eye Protection: CHEMICAL GOGGLES/USE CHEMICAL SAFETY GOGG

Other Protective Equipment: EYE WASH STATION AND SAFETY SHOWER, IMPERVIOUS CLOTHING, LONG SLEEVED SHIRT, TROUSERS, RUBBER APRON.

Work Hygienic Practices: WASH THOROUGHLY AFTER HANDLING.

Suppl. Safety & Health Data: OTHER: DECOMPOSITION WILL RESULT FROM CONTACT WITH IRON OR COPPER.

Transportation Data

Trans Data Review Date: January 2, 1998
DOT PSN Code: HNV
DOT Proper Shipping Name: HYPOCHLORITE SOLUTIONS
DOT Class: 8
DOT ID Number: UN1791
DOT Pack Group: II
DOT Label: CORROSIVE
IMO PSN Code: IKL
IMO Proper Shipping Name: HYPOCHLORITE SOLUTIONS
IMO Regulations Page Number: 8186
IMO UN Number: 1791
IMO UN Class: 8

Label Data

Label Required: YES
Technical Review Date: January 2, 2005
Common Name: SODIUM HYPOCHLORITE
Chronic Hazard: YES
Signal Word: DANGER
Acute Health Hazard-Moderate: X
Contact Hazard-Moderate: X
Fire Hazard-None: X
Reactivity Hazard-None: X
Special Hazard Precautions: SPILL: COMPATIBLE ABSORBENTS: SAND, CLAY, COMMERCIAL ABSORBENT. RESPONSE TO THIS MATERIAL REQUIRES THE USE OF SELF-CONTAINED BREATHING APPARATUS. ADDITIONAL PROTECTIVE CLOTHING MUST BE WORN TO PREVENT PERSONAL CONTACT WITH THIS MATERIAL.
FIRST AID:
EYES-IMMEDIATELY FLUSH WITH WATER FOR 15 MIN. CALL PHYSICIAN.
SKIN-IMMEDIATELY FLUSH WITH WATER FOR 15 MIN. CALL PHYSICIAN.
REMOVE SOILED CLOTHING.
INGESTION-IMMEDIATELY DRINK LARGE AMOUNTS OF WATER. DO NOT INDUCE VOMITING. CALL PHYSICIAN. DO NOT GIVE ANYTHING IF PERSON IS UNCONSCIOUS AND OR HAVING CONVULSIONS.
INHALATION-STOP WORK & MOVE TO FRESH AIR. IF BREATHING IS HARD, GIVE OXYGEN. CALL PHYSICIAN.
Protect Eye: X

Protect Skin: X

Label Name: Borden & Remington

Label Street: 106 Ferry St.

Label City: Fall River

Label State: MA

Label Zip Code: 02722

Label Country: US

Label Emergency Number: 800-424-9300 CHEMTREC