



SODIUM HYDROXIDE SOLUTION, 15% to 50%
MATERIAL SAFETY DATA SHEET

Part Number/Trade Name: SODIUM HYDROXIDE SOLUTION,

General Information

Company's Name: Borden & Remington
Company's Street: 63 Water St
Company's City: Fall River
Company's State: MA
Company's Emerg Ph #: 508-675-0096;CHEMITRECC:800-924-4300
Company's Info Ph #: ADDITIONAL INFO:508-675-0096
MSDS reviewed November 18, 2009

Ingredients/Identity Information

proprietary: NO
Ingredient: SODIUM HYDROXIDE (SARA III)
Percent: 15 to 50
NIOSH (RTECS) Number: WB4900000
CAS Number: 1310-73-2
OSHA PEL: 2 MG/M3
ACGIH TLV: C 2 MG/M3; 9293
Other Recommended Limit: N/K (FP N/ORNL)

Physical/Chemical Characteristics

Appearance And Odor: CLEAR COLORLESS LIQUID,NO ODOR.
Boiling Point: 232F,111C
Melting Point: N/A
Vapor Pressure (MM Hg/70 F):
Vapor Density (Air=1): N/A
Specific Gravity: 1.27 to 1.48 (WATER=1)
Decomposition Temperature: N/K (FP N)
Evaporation Rate And Ref: N/K (FP N/ORNL)
Solubility In Water: COMPLETE
Percent Volatiles By Volume: N/A
pH: 14.0

Fire and Explosion Hazard Data

Flash Point: N/A
Lower Explosive Limit: N/A
Upper Explosive Limit: N/A
Extinguishing Media: MATERIAL DOES NOT BURN OR SUPPORT COMBUSTION.
Special Fire Fighting Proc: USE NIOSH/MSHA APPROVED SCBA & FULL PROTECTIVE EQUIPMENT (FP N). MATERIAL IS CORROSIVE TO ALL HUMAN TISSUES; AVOID BODYCONTACT.
Unusual Fire And Expl Hazrds: Reaction with AL, MG, ZN, SZ WILL GENERATE EXPLOSION IN AIR. REACTION W/ STRONG ACIDS WILL CAUSE INCREASE IN TEMP. PRESS.
REACTION W/ ORGANICS SUCH AS CHLORIN HYDROCARB CAN CAUSE EXPLOSION.

Reactivity Data

Stability: YES
Cond To Avoid (Stability): N/K (FP N/ORNL)
Materials To Avoid: METALS (ESPECIALLY ZN, MG, AL, SN, AND ALLOYS OF THESE). ORGANICS. STRONG ACIDS, NITROMETHANE, LEATHER, WOOL AND EXPLOSIVES.
Hazardous Decomp Products: NONE
Hazardous POLYMERIZATION Occur: NO
Conditions To Avoid (Poly): VIOLENT POLYMERIZATION WILL OCCUR UPON REACTION WITH SOME ORGANICS SUCH AS ACROLEIN AND ACRYLONITRILE.

Health Hazard Data

LD50-LC50 Mixture: N/K (FP N/ORNL)
Route Of Entry - Inhalation: YES
Route Of Entry - Skin: YES
Route Of Entry - Ingestion: YES
Health Haz Acute And Chronic: ACUTE OVEREXPOSURE IS CORROSIVE TO ALL BODY TISSUES. CHRONIC LOCAL EFFECT MAY CONSIST OF MULTIPLE AREAS OF SUPERFICAL DESTRUCTION OF THE SKIN OR PRIMARY IRRITANT DERMATITIS. INHAL OF SPRAY OR MIST MAY RESULT IN VARYING DEGREES OF IRRIT OR DAMAGE TO THE RESP TRACT TISSUE & INCREASED SUSCEPTIBILITY TO RESP ILLNESS.
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: NONE
Signs/Symptoms Of Overexp: INHAL. SPRAY/MIST MAY CAUSE DMG TO LUNGS & UPPER RESP TRACT WICH COULD PRODUCE CHEM PNEUM. SKIN: CORROSIVE. WILL PRODUCE SEV BURNS EYES: DESTRUCT TO EYE TISSUE ON CONTACT. WILL CAUSE SEV BURNS THAT RESULT IN DMG TO EYES & EVEN BLINDNESS. INGEST: WILL

CAUSE SEV BURNS & COMPLETE TISSUE PERFORATION OF MUCCOUS
MEMBRANES(SUP DATA)

Med Cond Aggravated By Exp: N/K (FP N/ORNL)

Emergency/First Aid Procedure:

EYES: WITHIN 1 MIN, FLUSH EYES W/ LARGE AMTS OF H2O FOR AT LEAST 15
MIN, HOLDING LIDS APART. GET MEDICAL ATTN IMMED.
SKIN W/ PLENTY OF H2O/ WASH CLOTHING BEFORE REUSE. DISCARD FOOTWEAR
WHICH CANNOT BE DECONTAM. GET MED ATTN IMMED.
INGEST: DO NOT INDUCE VOMITTING. IF CONSCIOUS, GIVE
LARGE QTY'S OF H*2O (MILK IF AVAIL). IF VOMITTING OCCURS
SPONTANEOUSLY, KEEP AIRWAY CLEAR

Precautions for Safe Handling and Use

Steps If Matl Released/Spill: REMOVE SPILLS USING VACCUUM TRUCK. NEUTRALIZE
REMAINING MATL W/ H2O. COVER W/ SODIUM BICARBONATE. PUT CLEAN-UP MATL
IN APPRVD. LABLD CNTNRS TO AWAIT DISPOS. IF SPILLED ON DIRT/SAND, REMOVE
CONTAM SOIL. PUT IN A APPROVED CONTAINER.

Neutralizing Agent: ACETIC OR OTHER DILUTE ACID

Waste Disposal Method: DISPOSAL MUST BE IN ACCORDANCE WITH FEDERAL, STATE &
LOCAL REGULATIONS (FP N). ALL RESIDUAL SODIUM HYDROXIDE SOLUTION
SHOULD BE REMOVED FROM ITS CONTAINER BEFORE REUSE OR DISPOSAL OF THE
CONTAINER.

Precautions-Handling/Storing: STORE IN LEAKPROOF CNTNR AT TEMP >OF. DO NOT
STORE NEAR ACID, METALS, EXPLOSIVES & ORGANICS. KEEP CNTNR CLOSED WHEN
NOT IN USE.

Other Precautions: TO AVOID VIOLENT SPLATTERING WHEN MAKING SLNS, ADD NAOH
SLOWLY TO SURFACE OF H2O & STR CONSTANTLY. STORE & HANDLE NAOH NEAR
VALVED H2O SOURCE WHICH CAN BE USED FOR EMER. AVOID CONTACT W/
EYES, SKIN & CLTHG.
DO NOT BRTH VAP OR TAKE INTERNALLY.

Control Measures

Respiratory Protection: NIOSH/MSHA APPROVED RESPIRATOR APPROPRIATE
EXPOSURE OF CONCERN (FP N). RESPIRATORY PROTECTION NOT REQUIRED FOR
NORMAL USE UNLESS CHEMICAL MIST IS PRESENT.

Ventilation: LOCAL AND GENERAL VENTILATION NECESSARY TO KEEP AIR
CONCENTRATION BELOW TLV (FP N/ORNL)

Protective Gloves: RUBBER WASH GLOVES W/MILD SOAP & WATER.

Eye Protection: CHEM WORK GOGG, FACESHLD.

Other Protective Equipment: PROTECTIVE RUBBER CLOTHING & BOOT TO PREVENT
SKIN CONTACT. SAFETY SHOWS AND EYEWASH STATIONS SHOULD BE READILY
AVAIL.

Work Hygienic Practices: WASH THOROUGHLY AFTER HANDLING PROTECTIVE CLOTHING SHOULD BE WASHED W/ SOAP AND WATER AND DRIED THOROUGHLY BEFORE REUSE

Safety & Health Data: SIGN & SYMPTOMS OF OVEREXPOSURE OF THE MOUTH, THROAT, ESOPHAGUS AND STOMACH EMERGENCY FIRST AID PROCEDURES: CLEAR GET MEDICAL ATTENTION IMMEDIATELY. INHALATION: REMOVE TO FRESH AIR IF BREATHING HAS STOPPED, RESUSCITATE AND ADMINISTER OXYGEN IF READILY AVAILABLE. GET MEDICAL ATTENTION IMMEDIATELY. VP:30 MMHG AT 100F, 38C.

Transportation Data

DOT PSN Code: NGY
DOT Proper Shipping Name: SODIUM HYDROXIDE SOLUTION
DOT Class: 8
DOT ID Number: UN1824
DOT Pack Group: II
DOT Label: CORROSIVE
IMO PSN Code: NTB
IMO Proper Shipping Name: SODIUM HYDROXIDE, SOLUTION
IMO Regulations Page Number: 8226
IMO UN Number: 1824
IMO UN Class: 8
IMO Subsidiary Risk Label: -
IATA PSN Code: WST
IATA UN ID Number: 1824
IATA Proper Shipping Name: SODIUM HYDROXIDE SOLUTION
IATA UN Class: 8
IATA Label: CORROSIVE
AFI PSN Code: WST
AFI Prop. Shipping Name: SODIUM HYDROXIDE, SOLUTION
AFI Class: 8
AFI ID Number: UN1824
AFI Pack Group: II
AFI Label: CORROSIVE
AFI Special Prov: N34
AFI Basic Pac Ref: 12-5

Disposal Data

Landfill Ban Item: YES
Disposal Supplemental Data: SIGN & SYMPTOMS OF OVEREXPOSURE OF THE MOUTH,

THROAT,ESOPHAGUS AND STOMACH:EMERGENCY FIRST AID
PROCEDURES:CLEAR GET MEDICAL ATTENTION
IMMEDIATELY:INHALATION:REMOVE TO FRESH AIR,IF BREATHING
HA IN CASE OF ACCIDENTAL EXPOSURE OR DISCHARGE, CONSULT HEALTH AND
SAFETY
FILE FOR PRECAUTIONS.
1st EPA Haz Wst Code New: D002
1st EPA Haz Wst Name New: CORROSIVE
1st EPA Haz Wst Char New: CORROSIVITY
1st EPA Acute Hazard New: NO

Label Data

Label Required: YES
Label Status: G
Common Name: SODIUM HYDROXIDE SOLUTION,
Special Hazard Precautions: ACUTE OVEREXPOSURE IS CORROSIVE TO ALL BODY
TISSUES.CHRONIC LOCAL EFFECT MAY CONSIST OF MULTIPLE AREAS OF
SUPERFICAL DESTRUCTION OF THE SKIN OR PRIMARY IRRITANT
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IRRIT OR DAMAGE TO THE RESP TRACT TISSUE & INCREASED SUSCEPTILITY TO
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CONTACT .WILL CAUSE SEV BURNS THAT RESULT IN DMG TO EYES & EVEN
BLINDNESS.
INGEST:WILL CAUSE SEV BURNS & COMPLETE TISSUE PERFORATION OF MUCCOUS
MEMBRANES(SUP DATA)
Label Name: Borden & Remington
Label Street: 106 Ferry St
Label City: Fall River
Label State: Massachusetts
Label Emergency Number;CHEMITREC:800-924-4300