



Borden & Remington-- CAUSTIC POTASH- 45% - POTASSIUM HYDROXIDE
MATERIAL SAFETY DATA SHEET
Manufacturer's CAGE: 1CBN1
Part Number/Trade Name: CAUSTIC POTASH-Potassium Hydroxide 45%

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General Information
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Item Name: POTASSIUM HYDROXIDE
Company's Name: Borden & Remington Corp.
Company's Street: 63 Water St
Company's City: Fall River
Company's State: MA
Company's Country: US
Company's Zip Code: 02722
Company's Emerg Ph #: 800-424-9300(CHEMTREC)
Company's Info Ph #: 508-675-0096
Record No. For Safety Entry: 001
Date MSDS Prepared: July 1998
Safety Data Review Date: January 2010

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Ingredients/Identity Information
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Proprietary: NO
Ingredient: POTASSIUM HYDROXIDE. (KOH, CAUSTIC POTASH).
LD50 RAT ORAL 365 MG/KG.
Ingredient Sequence Number: 01
Percent: 45
NIOSH (RTECS) Number: TT2100000
CAS Number: 1310-58-3
OSHA PEL: 2 MG/M3 C
ACGIH TLV: 2 MG/M3 C
Other Recommended Limit: N/K (FP N/ORN/L)

Proprietary: NO
Ingredient: WATER
Ingredient Sequence Number: 02
Percent: 55
NIOSH (RTECS) Number: ZC0110000
CAS Number: 7732-18-5
OSHA PEL: N/K (FP N/ORN/L)
ACGIH TLV: N/K (FP N/ORN/L)
Other Recommended Limit: N/K (FP N/ORN/L)

Physical/Chemical Characteristics

Appearance And Odor: CLEAR LIQUID WITH NO ODOR.
Boiling Point: 271F ,133C
Melting Point: N/K (FP N)
Vapor Pressure (MM Hg/70 F): N/A
Vapor Density (Air=1): N/A
Specific Gravity: SEE SUPP DATA
Decomposition Temperature: N/K (FP N)
Evaporation Rate And Ref: N/K (FP N/ORNL)
Solubility In Water: COMPLETE
pH: SUP DA

Fire and Explosion Hazard Data

Flash Point: NONE
Lower Explosive Limit: N/A
Upper Explosive Limit: N/A
Extinguishing Media: NOT COMBUSTIBLE.WATER SPRAY,FOAM,CARBON DIOXIDE OR DRY CHEMICALS MAY BE USED IN AREAS WHERE THIS PRODUCT IS STORED.
Special Fire Fighting Proc: USE NIOSH/MSHA APPROVED PRESSURE DEMAND SCBA & FULL PROTECTIVE EQUIPMENT (FP N). AVOID DIRECT CONTACT OF PRODUCT W/ WATER,
CAN CAUSE VIOLENT EXOTHERMIC REACTION
Unusual Fire And Expl Hazrds: DIRECT CONTACT WITH WATER OR ACIDS CAN CAUSE A VIOLENT EXOTHERMIC REACTION.

Reactivity Data

Stability: YES
Cond To Avoid (Stability): N/K (FP N/ORNL)
Materials To Avoid: ALUMINUM,TIN,ZINC & THEIR ALLOYS,STRONG ACIDS,LEATHER, ORGANIC HALOGEN & ORGANIC NITRO COMPOUNDS,WOOL,WATER.
Hazardous Decomp Products: NONE
Hazardous Poly Occur: NO
Conditions To Avoid (Poly): N/K (FP N/ORNL)

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: CORROSIVE TO ALL BODY TISSUE. LOCAL EXPOSURE CONSISTS OF MULTIPLE AREAS OF SUPERFICIAL SKIN DESTRUCTIO
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: NONE
Signs/Symptoms Of Overexp: EYES:SEVERE BURNS,BLINDNESS,SKIN:IRRITANT DERMAT,SEVERE BURNS,LATENT PERIOD BETWEEN EXPOSURE & IRRIT MAY EXIST & VARY
W/ CONC,INGESTION:POSS SEVERE BURNS AND PERFORATION OF MUCCOUS MEMBRANES IN

MOUTH, THROAT, ESOPHAGUS & STOMACH. INHALATION: MIST/SPRAY MAY DAMAGE UPPER RESPIRATORY TRACT AND LUNGS W/ POSS CHEM PNEUMONITIS. Med Cond Aggravated By Exp: NK (FP N/ORNL) Emergency/First Aid Proc: EYES: IMMED FLUSH W/ LRG AMTS OF H²O FOR 15 MIN. HOLD LIDS OPEN. CALL MID IMMED. SKIN: WASH AREA W/ PLENTY OF H²O FOR 15 MIN. REMOVE CONTAM CLTHG & SHOES. CALL MID IMMED. INGEST: NEVER GIVE ANYTHING BY MOUTH IF UNCON. DO NOT INDUCE VOMIT. GIVE LRG QTIES OF H²O OR MILK. IF VOMIT OCCURS, KEEP AIRWAY CLEAR. CALL MID IMMED. INHAL: MOVE TO FRESH AIR. GIVE O² IF BRTHG DFCLT. GIVE ARTF RESP IF BRTHG STOPPED. GET MED ATTN.

Precautions for Safe Handling and Use

Steps If Mail Released/Spill: STOP LEAK CONTAIN & CLEAN-UP SPILL IMMED. REMOVE SPILL W/ VACUUM TRUCK. NEUT TRACES W/ DILUTE HCL, H²SO⁴, HNO³, H³PO⁴, OR ACETIC ACID. FLUSH AREA W/ H²O. COVER W/ SODIUM BICARBONATE PLACE CLEAN-UP MATLS & AFFECTED SOILS IN APPRVD CONTR. LABEL (SEE SUP) Neutralizing Agent: DILUTE INORGANIC ACIDS LIKE HYDROCHLORIC, SULFURIC, NITRIC, PHOSPHORIC & ACETIC. Waste Disposal Method: DISP MUST BE LAW FED. STATE AND LOCAL REGS (FP N). CLEAN-UP MATERIAL MAY BE CONSIDERED HAZ WASTE SUBJECT TO SPECIFIC REGS. SHIP RETURNABLE CNTNRS AS REC BY SUPPLIER. RETURN SHIPMENTS SHOULD COMPLY W/ FED. STATE & DOT REGS. REMOVE ALL POTASSIUM (SEE SUPP) Precautions-Handling/Storage: DO NOT GET IN EYES, ON SKIN OR CLTHG. AVOID BRTHG DUST, MIST OR SPRAY. DO NOT INGEST. USE ADEQ VENT & RESP PROT WHERE DUST, MIST OR SPRAY POSS. (SEE ING 3) Other Precautions: ALWAYS WEAR PROT CLTHG. WHEN MIXING, ADD KOH TO 80-100F, 26.67-37.78 H²O. NEVER ADD H²O TO KOH. STIR CONSTANTLY TO ASSURE ALL KOH DISSOLVES AS ADDED. IF KOH SETTLES IN BOTTOM OF VESSEL, MAY GENERATE EXCESS HEAT. RESULTING IN DANGEROUS (SEE ING 7)

Control Measures

Respiratory Protection: NOT REQUIRED UNDER NORMAL USE. NIOSH/MSHA APPROVED RESPIRATOR WHERE MIST, DUST OR SPRAY MAY BE GENERATED. Ventilation: SPEC VENT NOT RECD UNDER NORMAL USE. USE LOCAL EXHST VENT IF MIST/SPRAY MAY BE GENERATED. SPEC VENT MAY BE (SEE INGRED 8) Protective Gloves: NATRL OR BUTYL RUB, NEOPRENE, NITRILE, PVC. Eye Protection: CHEM WORKERS GOGGLES & FULL FACE SHIELD. Other Protective Equipment: WEAR IMPERVIOUS PROT CLTHG & CHEM RESIST SFTY SHOES FOR MIN CONT EMER SHOWER & EYEBATHS IN ALL PROD HNDLG AREAS. Work Hygienic Practices: IMMED WASH THORO AFTER HNDLG/CONT. DECONTAMINATE PROT EQUIP (GLOVES, CLTHG) W/ SOAP & H²O. DISCARD SHOES THAT (SEE ING 9) Suppl. Safety & Health Data: SPEC GRAV: 1.45 AT 15.6C. -9F. WATER=1. PH: 12. 0.01 MOLES/LITER. FP: -29C. -20F. SPILL PROC: PROPERLY & STORE FOR TREATMENT/ DISP. REPORT SPILLS AS RECD TO APPROP REG AUTHORITY. CAUTION: CAUSTIC POTASH MAY REACT VIOLENTLY W/ ACIDS & WATER. WEAR APPROP PROT EQUIP. WASTE DISP METH: HYDROXIDE FROM CNTNRS BEFORE DISP BY APPRVD CONTRACTOR.

Transportation Data

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Trans Data Review Date: July 1998
DOT PSN Code: LZO
DOT Proper Shipping Name: POTASSIUM HYDROXIDE, SOLUTION
DOT Class: 8
DOT ID Number: UN1814
DOT Pack Group: II
DOT Label: CORROSIVE
IMO PSN Code: MDV
IMO Proper Shipping Name: POTASSIUM HYDROXIDE, SOLUTION
IMO Regulations Page Number: 8214
IMO UN Number: 1814
IMO UN Class: 8
IMO Subsidiary Risk Label: -
IATA PSN Code: UPZ
IATA UN ID Number: 1814
IATA Proper Shipping Name: POTASSIUM HYDROXIDE SOLUTION
IATA UN Class: 8
IATA Label: CORROSIVE
AFI PSN Code: UPZ
AFI Prop. Shipping Name: POTASSIUM HYDROXIDE SOLUTION
AFI Class: 8
AFI ID Number: UN1814
AFI Pack Group: III
AFI Basic Pac Ref: 12-5
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Label Data

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Label Required: P
Technical Review Date: 01NOV90
Label Status: G
Common Name: CAUSTIC POTASH-LOW SODIUM 45%
Chronic Hazard: NO
Signal Word: DANGER!
Acute Health Hazard-Severe: X
Contact Hazard-Severe: X
Fire Hazard-None: X
Reactivity Hazard-Slight: X
Special Hazard Precautions: ACUTE:CORROSIVE. EYES:SEVERE BURNS OR
BLINDNESS. SKIN:IRRITANT DERMATITIS OR SEVERE BURNS. LATENT PERIOD MAY
EXIST BETWEEN EXPOSURE AND SENSE OF IRRITATION. INGESTION:POSSIBLE
SEVERE
BURNS AND PERFORATION OF MUCCOUS MEMBRANES IN MOUTH, THROAT,
ESOPHAGUS AND
STOMACH. INHALATION:MIST OR SPRAY MAY DAMAGE UPPER RESPIRATORY TRACT
AND
LUNGS AND MAY CAUSE CHEMICAL PNEUMONITIS. CHRONIC:NO CHRONIC EFFECT
KNOWN.
CAN REACT VIOLENTLY WITH WATER. DO NOT GET IN EYES, ON SKIN OR ON
CLOTHING
WASH THOROUGHLY AFTER HANDLING. AVOID BREATHING DUST, MIST OR SPRAY.
Protect Eye: Y
Protect Skin: Y
Protect Respiratory: Y
Label Name: Borden & Remington
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Label Street: 106 Ferry St

Label P.O. Box: 2573

Label City: Fall River

Label State: MA

Label Zip Code: 02722

Label Country: US

Label Emergency Number: 800-424-9300(CHEMTRAC)