

DOD Hazardous Materials Information System
DoD 6050.5-L
AS OF July 1998

FSC: 6810
NIIN: 00D002600
Manufacturer's CAGE: 91224
Part No. Indicator: A
Part Number/Trade Name: NEUTRALIZING REAGENT POWDER PILLOWS

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General Information

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Item Name:
Company's Name: HACH CO.
Company's Street: 5600 LINDBERGH DR
Company's P. O. Box: 608
Company's City: LOVELAND
Company's State: CO
Company's Country: US
Company's Zip Code: 80539
Company's Emerg Ph #: 303-623-5716
Company's Info Ph #: 800-227-4224
Distributor/Vendor # 1: HACH CO. (800-227-4224)
Distributor/Vendor # 1 Cage: 4T252
Distributor/Vendor # 2:
Distributor/Vendor # 2 Cage:
Distributor/Vendor # 3:
Distributor/Vendor # 3 Cage:
Distributor/Vendor # 4:
Distributor/Vendor # 4 Cage:
Safety Data Action Code:
Safety Focal Point: D
Record No. For Safety Entry: 002
Tot Safety Entries This Stk#: 002
Status: SE
Date MSDS Prepared: 22MAR94
Safety Data Review Date: 20MAR95
Supply Item Manager: CX
MSDS Preparer's Name:
Preparer's Company:
Preparer's St Or P. O. Box:
Preparer's City:
Preparer's State:
Preparer's Zip Code:
Other MSDS Number:
MSDS Serial Number: BHQDK
Specification Number: NONE
Spec Type, Grade, Class: NONE
Hazard Characteristic Code: C2
Unit Of Issue:
Unit Of Issue Container Qty: UNKNOWN
Type Of Container: UNKNOWN
Net Unit Weight: UNKNOWN

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NRC/State License Number: N/R
Net Explosive Weight:
Net Propellant Weight-Ammo: N/R
Coast Guard Ammunition Code:

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Ingredients/Identity Information

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Proprietary: NO
Ingredient: LITHIUM HYDROXIDE MONOHYDRATE
Ingredient Sequence Number: 01
Percent: 100
Ingredient Action Code:
Ingredient Focal Point: D
NIOSH (RTECS) Number: OJ6307080
CAS Number: 1310-66-3
OSHA PEL: NOT ESTABLISHED
ACGIH TLV: NOT ESTABLISHED
Other Recommended Limit: NOT ESTABLISHED
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Physical/Chemical Characteristics

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Appearance And Odor: WHITE POWDER, SUFFOCATING ODOR * PH OF 0.1N SOLUTION
= 14
Boiling Point: UNKNOWN
Melting Point: 880F,471C
Vapor Pressure (MM Hg/70 F): UNKNOWN
Vapor Density (Air=1): UNKNOWN
Specific Gravity: 1.51
Decomposition Temperature: UNKNOWN
Evaporation Rate And Ref: UNKNOWN
Solubility In Water: COMPLETE
Percent Volatiles By Volume: N/K
Viscosity:
pH: N/K
Radioactivity:
Form (Radioactive Matl):
Magnetism (Milligauss): N/P
Corrosion Rate (IPY): .23IN/YR
Autoignition Temperature:
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Fire and Explosion Hazard Data

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Flash Point: NON-FLAMMABLE
Flash Point Method: N/P
Lower Explosive Limit: UNKNOWN
Upper Explosive Limit: UNKNOWN
Extinguishing Media: USE CARBON DIOXIDE, FOAM, DRY CHEMICAL,
Special Fire Fighting Proc: FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA &
FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO
COOL NEARBY CONTAINERS EXPOSED TO FIRE.
Unusual Fire And Expl Hazrds: FIRE OR EXCESSIVE HEAT MAY CAUSE PRODUCTION
OF HAZARDOUS DECOMPOSITION PRODUCTS.

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Reactivity Data

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Stability: YES
Cond To Avoid (Stability): EXTREME TEMPERATURES, EXCESS MOISTURE.
Materials To Avoid: ACIDS, WATER, COMBUSTIBLE MATERIALS, METALS.
Hazardous Decomp Products: MAY EMIT TOXIC, CORROSIVE FUMES IN FIRE OR IN
CONTACT WITH ACIDS OR WATER.
Hazardous Poly Occur: NO
Conditions To Avoid (Poly): NOT APPLICABLE
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Health Hazard Data

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LD50-LC50 Mixture: ORAL RAT LD50=225 MG/KG * VERY TOXIC *
Route Of Entry - Inhalation: YES
Route Of Entry - Skin: YES
Route Of Entry - Ingestion: YES
Health Haz Acute And Chronic: CORROSIVE TO EYES, SKIN AND RESPIRATORY
TRACT. TARGET ORGANS: KIDNEYS, CENTRAL NERVOUS SYSTEM, BONE MARROW. CAUSES
SEVERE BURNS.
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: LITHIUM HYDROXIDE IS NOT LISTED BY IARC, NTP,
OR OSHA AS A CARCINOGEN.
Signs/Symptoms Of Overexp: ANOREXIA, WEIGHT LOSS, WEAKNESS, DEHYDRATION,
THIRST, DRY MOUTH, SKIN EFFECTS, KIDNEY DAMAGE, COMA AND DEATH.
Med Cond Aggravated By Exp: RESPIRATORY DISEASES, ESPECIALLY THOSE
OBSTRUCTING THE AIRWAY; SKIN DISORDERS; EYE CONDITIONS; PRE-EXISTING KIDNEY
DISORDERS.
Emergency/First Aid Proc: EYE:FLUSH W/WATER 15 MIN, HOLD LIDS OPEN.
SKIN:WASH WITH SOAP & WATER. REMOVE CONTAMINATED CLOTHING AND LAUNDRER
BEFORE REUSE. INHALED:REMOVE TO FRESH AIR. INGESTED:DO NOT INDUCE VOMITING.
GIVE 2 LARGE GLASSES OF MILK OR WATER AND GET IMMEDIATE MEDICAL CARE. GIVE
NOTHING BY MOUTH IF UNCONSCIOUS. IF IRRITATION PERSISTS OR IS SEVERE,SEE A
DOCTOR.
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Precautions for Safe Handling and Use

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Steps If Matl Released/Spill: PLACE IN BEAKER AND CAUTIOUSLY DISSOLVE IN
WATER (EVOLVES EXCESS HEAT). CAREFULLY NEUTRALIZE.
Neutralizing Agent: 6M HYDROCHLORIC ACID, BORIC ACID, DILUTE ACETIC ACID.
Waste Disposal Method: DISPOSE I/A/W ALL FEDERAL, STATE AND LOCAL
REGULATIONS. MANUFACTURER SUGGESTS THAT DISPOSAL MAY BE DONE BY FLUSHING
NEUTRALIZED MATERIAL TO DRAIN.
Precautions-Handling/Storing: STORE IN A COOL, DRY AREA. KEEP CONTAINERS
TIGHTLY CLOSED WHEN NOT IN USE.
Other Precautions: WASH THOROUGHLY AFTER HANDLING. AVOID CONTACT WITH EYES
,SKIN, CLOTHING. DO NOT BREATHE CHEMICALS. OBSERVE INCOMPATIBILITIES.
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Control Measures

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Respiratory Protection: RESPIRATOR WILL NOT NORMALLY BE NECESSARY. USE
NIOSH/MSHA APPROVED RESPIRATOR FOR ALKALINE DUST IF EXPOSURE IS ABOVE THE
TLV/PEL.
Ventilation: NOT NORMALLY REQUIRED. USE LAB HOOD OR OTHER LOCAL EXHAUST TO
MAINTAIN EXPOSURE BELOW PEL/TLV.
Protective Gloves: RUBBER, VINYL OR OTHER IMPERVIOUS
Eye Protection: SAFETY GLASSES OR SPLASH GOGGLES
Other Protective Equipment: EYE WASH STATION AND SAFETY SHOWER. LAB COAT
OR APRON
Work Hygienic Practices: USE GOOD CHEMICAL HYGIENE PRACTICE. AVOID
UNNECESSARY CONTACT.
Suppl. Safety & Health Data: CHANGE NUMBER 7557.
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Transportation Data

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Transportation Action Code:
Transportation Focal Point: D
Trans Data Review Date: 95079
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DOT PSN Code: IKP
DOT Symbol:
DOT Proper Shipping Name: LITHIUM HYDROXIDE, MONOHYDRATE OR LITHIUM
HYDROXIDE, SOLID
DOT Class: 8
DOT ID Number: UN2680
DOT Pack Group: II
DOT Label: CORROSIVE
DOT/DoD Exemption Number:
IMO PSN Code: JAU
IMO Proper Shipping Name: LITHIUM HYDROXIDE, SOLID
IMO Regulations Page Number: SEE 8190
IMO UN Number: 2680
IMO UN Class: 8
IMO Subsidiary Risk Label: -
IATA PSN Code: PGS
IATA UN ID Number: 2680
IATA Proper Shipping Name: LITHIUM HYDROXIDE MONOHYDRATE
IATA UN Class: 8
IATA Subsidiary Risk Class:
IATA Label: CORROSIVE
AFI PSN Code: PGS
AFI Symbols:
AFI Prop. Shipping Name: LITHIUM HYDROXIDE, MONOHYDRATE
AFI Class: 8
AFI ID Number: UN2680
AFI Pack Group: II
AFI Label:
AFI Special Prov:
AFI Basic Pac Ref: 12-7
MMAC Code:
N.O.S. Shipping Name: LITHIUM HYDROXIDE

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Additional Trans Data:

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Disposal Data

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Disposal Data Action Code:
Disposal Data Focal Point:
Disposal Data Review Date:
Rec # For This Disp Entry:
Tot Disp Entries Per NSN:
Landfill Ban Item:
Disposal Supplemental Data:
1st EPA Haz Wst Code New:
1st EPA Haz Wst Name New:
1st EPA Haz Wst Char New:
1st EPA Acute Hazard New:
2nd EPA Haz Wst Code New:
2nd EPA Haz Wst Name New:
2nd EPA Haz Wst Char New:
2nd EPA Acute Hazard New:
3rd EPA Haz Wst Code New:
3rd EPA Haz Wst Name New:
3rd EPA Haz Wst Char New:
3rd EPA Acute Hazard New:

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Label Data

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Label Required: YES
Technical Review Date: 21MAY90
Label Date:
MFR Label Number: NONE
Label Status: F
Common Name: 2127 NEUTRALIZING REAGENT/LITHIUM HYDROXIDE
Chronic Hazard: NO
Signal Word: DANGER!
Acute Health Hazard-None:
Acute Health Hazard-Slight:
Acute Health Hazard-Moderate:
Acute Health Hazard-Severe: X
Contact Hazard-None:
Contact Hazard-Slight:
Contact Hazard-Moderate:
Contact Hazard-Severe: X
Fire Hazard-None:
Fire Hazard-Slight: X
Fire Hazard-Moderate:
Fire Hazard-Severe:
Reactivity Hazard-None:
Reactivity Hazard-Slight: X
Reactivity Hazard-Moderate:
Reactivity Hazard-Severe:
Special Hazard Precautions: CONTACT CAUSES BURNS TO SKIN AND EYES. IF
INHALED, MAY BE HARMFUL. FIRE MAY PRODUCE IRRITATING OR POISONOUS GASES.
RUNOFF FROM FIRE CONTROL OR DILUTION WATER MAY CAUSE POLLUTION. EXTREMELY

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CORROSIVE TO ALL BODY TISSUES. CAUSES CHEMICAL BURNS AND IF INHALED OR
INGESTED, MAY BE FATAL. INHALATION MAY CAUSE PULMONARY EDEMA. INHALATION IS
AN UNLIKELY EXPOSURE DUE TO THE PACKAGING. STORE IN A COOL, DRY AREA. KEEP
CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE.

Protect Eye: Y
Protect Skin: Y
Protect Respiratory: Y
Label Name: HACH COMPANY
Label Street: 100 DAYTON RD.
Label P.O. Box: 907
Label City: AMES
Label State: IA
Label Zip Code: 50010-6402
Label Country: US
Label Emergency Number: 515-232-2533 (303-623-5716 MEDICAL)
Year Procured: N/K