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NAVAL MINE WARFARE ENGINEERING ACTIVITY -- DISCHARGED BATTERY ALKALINE, MK108-1 -- 6135-01-046-6803

Product ID:DISCHARGED BATTERY ALKALINE, MK108-1 MSDS Date:02/11/1991 FSC:6135 NIIN:01-046-6803 MSDS Number: BMDKM === Responsible Party === Company Name:NAVAL MINE WARFARE ENGINEERING ACTIVITY Address:CODE 60 BUILDING 1959 City:YORKTOWN State:VA ZIP:23691-5076 Cou ntry:US Info Phone Num:804-887-4930 Emergency Phone Num:804-887-4930 Preparer's Name: ANN ALLEN CAGE:30265 === Contractor Identification === Company Name: HOECHST CELANESE CHEM GROUP Box:City:DALLAS State:TX ZIP:75356-9320 Country:US Phone:214-689-4000 CAGE:10001 Company Name:NAVAL MINE WARFARE ENGINEERING ACTIVITY Address:CODE 60 BUILDING 1959 Box:City:YORKTOWN State:VA ZIP:23691-5076 Country:US Phone:804-887-4930 CAGE:30265

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ngred Name:MERCURY CAS:7439-97-6 RTECS #:OV4550000 Fraction by Wt: 0.01% OSHA PEL:0.1 MG/M3, S, C ACGIH TLV:0.05 MG/M3, S EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name:MANGANESE CAS:7439-96-5 RTECS #:OO9275000 Other REC Limits:1 MG/M3 FUME;3 STEL OSHA PEL:(C) 5 MG/M3 DUST ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name:POTASSIUM HYDROXIDE CAS:1310-58-3 RTECS #:TT2100000 Fraction by Wt: 10% OSHA PEL:2 MG/M3, C ACGIH TLV:2 MG/M3, C EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

Ingred Name: MANGANESE DIOXIDE

CAS:1313-13-9 RTECS #:OP0350000 Fraction by Wt: 10% Other REC Limits:1 MG/M3 FUME;3 STEL OSHA PEL:5 MG/M3 DUST, C (MN) ACGIH TLV:5 MG/M3 (MN DUST)

Ingred Name:CARBON BLACK CAS:1333-86-4 RTECS #:FF5800000 OSHA PEL:3.5 MG/M3 ACGIH TLV:3.5 MG/M3

Ingred Name:GRAPHITE CAS:7782-42-5 RTECS #:MD9659600 Fraction by Wt: 5% Other REC Limits:15 MPPCF (MFR) OSHA PEL:15 MPPCF RDUST ACGIH TLV:2 MG/M3 RDUST; 9293

Ingred Name:ZINC OXIDE (MFR REC LIMITS: 5 MG/M3, C) CAS:1314-13-2 RTECS #:ZH4810000 Other REC L imits:5 MG/M3 FUME;10 STEL OSHA PEL:15MG/M3 TDUST/5 FUME ACGIH TLV:10MG/M3 TDUST; 9293

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER. Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:MERCURY IS EXPERIMENTAL TERATOGEN & GI & CNS POISON. MANGANESE IS AN EXPERIMENTAL TERATOGEN & MUTAGEN. ZINC OXIDE IS A HUMAN PULMONARY DISEAS E PRODUCER. IN FIRE SITUATION, CELLS MAY RELEASE HAZ SUBSTA NCES. (ACUTE) INHAL: MAY CAUSE IRRIT/METAL FUME FEVER IN FIRE SITUATION. INGEST: MATLS ARE POISONOUS. (EFTS OF OVEREXP) Explanation of Carcinogenicity:NOT RELEVANT Effects of Overexposure:HLTH HAZ: SKIN/EYE: MATLS MAY CAUSE EYE & SKIN IRRIT BY VAPOR/DIRECT CONT. (CHRONIC) NOT LIKELY UNDER NORMAL USE. Medical Cond Aggravated by Exposure:RESPIRATORY INFECTIONS AND

DISEASES, SKIN DISORDERS.

First Aid:INHAL:REMOVE TO FRESH AIR, USE ARTF RESP IF NEEDED. CALL MD. EYE:FLUSH FOR AT LEAST 15 MIN W/FRESH RUNNING WATER, OCCASNLY LIFTING UPPER & LOWER LIDS. CALL MD. SKIN:THORO WASH AFFECTED AREA UNTIL NO T RACE OF MATL REMAINS. INGEST:NOT LIKELYUNDER NORMAL USE. IF INGEST OCCURS, CALL MD IMMED. DRINK LRG QTY OF WATER. EXPOS IN FIRE: REMOVE VICTIM FROM FIRE HAZ TO FRESH AIR. CALL MD.

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

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Flash Point:NOT KNOWN

Extinguishing Media: IN BULK STORAGE USE CO\*2, FOAM OR DRY POWDER. WATER MAY CAUSE ELECTRICAL SHORTS.

Fire Fighting Procedures:WEAR NIOSH/MSHA APPRVD SCBA & FULL PROT EQUIP . AVOID CONTACT WITH HAZARDOUS DECOMPOSITION PRODUCTS. Unusual Fire/Explosion Hazard:CELLS MAY RUPTURE WHEN EXPOSED TO EXCESSIVE HEAT.

Spill Release Procedures: BATTERIES ARE A DRY SOLID & CAN BE HANDL

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EASILY WITH SHOVELS OR SIMILAR EQUIPMENT. WHEN ACCUMULATING LRG QTYS OF UNDISCHARGED BATTERIES FOR DISP PACK IN NON-CONDUCTIVE INSULATING MATERIAL. AVOID HEA T & WATER. USE RUBBER GLOVES FOR (SUPP DATA)

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

Handling and Storage Precautions:DO NOT STORE UNPACKAGED CELLS TOGETHER SO CONTACTS CAN TOUCH. THIS SITUATION WILL RESULT IN CELL SHORTING AND HEAT B

UILD-UP.

Other Precautions:DO NOT CHARGE, OVERHEAT (GREATER THAN 160F), OR OPEN CELLS. AVOID CONTACT WITH WATER, SPARKS, AND OPEN FLAMES.

======= Exposure Controls/Personal Protection ==========

Respiratory Protection:NIOSH/MSHA APPROVED RESPIRATOR APPROPRIATE FOR EXPOSURE OF CONCERN . NONE NEEDED UNDER NORMAL USE. Ventilation:NONE NEEDED UNDER NORMAL USE. Protective Gloves:NONE NEEDED UNDER NORMAL USE. Eye Protection:NONE NEEDED UNDER NORMAL USE. Other Protective Equipment: NONE REQUIRED UNDER NORMAL USE. Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER. Supplemental Safety and Health SPILL PROC: CLEANING UP SPILLS OR HANDLING INTERNAL PARTS OF CELLS. USE ADEQUATE VENTILATION AND AVOID CONTACT OF CELL INTERNAL COMPONENTS WITH SKIN OR EYES.

Boiling Pt:B.P. Text:>212F,>100C Vapor Density:>1 Spec Gravity:>1 Evaporation Rate & amp; Reference:+1 (NK) Solubility in Water:NEGLIGIBLE Appear ance and Odor:BLACK SOLID GRANULES WITH NO APPRECIABLE ODOR, ENCASED IN BATTERY ASSEMBLY.

Stability Indicator/Materials to Avoid:YES

KEEP AWAY FROM WATER. Stability Condition to Avoid: EXCESSIVE HEAT AND FIRE (HEATING ABOVE

160F), CHARGING.

Hazardous Decomposition Products: IN A FIRE SITUATION, MERCURY VAPOR, MANGANESE, AND ZINC OXIDE FUMES MAY BE EMITTED.

Waste Disposal Methods:DISCARD IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. DISPOSAL BY LANDFILL MAY BE PROHIBITED IN SOME AREAS.

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