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NAVAL MINE WARFARE ENGINEERING ACTIVITY -- DISCHARGED BATTERY ALKALINE, MK106-0 -- 6135-00-008-5342

============= Product Identification ==================

Product ID:DISCHARGED BATTERY ALKALINE, MK106-0

MSDS Date:02/08/1991

FSC:6135

NIIN:00-008-5342

MSDS Number: BNMMC === Responsible Party ===

Company Name: NAVAL MINE WARFARE ENGINEERING ACTIVITY

Address: CODE 60 BUILDING 1959

City:YORKTOWN

State:VA

ZIP:23691-5076

Coun try: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

======= Composition/Information on Ingredients ========

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gred 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: MAGANESE

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%

OSHA PEL:5 MG/M3 CEILING (MN) ACGIH TLV:5 MG/M3 (AS 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

CAS:1314-13-2

RTECS #:ZN4810000

Other REC Limits: 5 MG/M3, C

OSHA PEL:15MG/M3 TDUST/5 FUME

ACGIH TLV:10MG/M3

TDUST; 9293
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LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER. Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:IN FIRE SITUATION CELLS MAY RELEASE HAZ SUBSTANCES. ACUTE: INHAL: MAY CAUSE IRRITATION OR METAL FUME FEVER IN FIRE SITUATION. INGEST: INGREDIENTS ARE POISONOUS. CONTACT: MATERIALS MAY CAUSE SKIN OR EYE IRRITATION BY VAPOR OR DIRECT CONTACT. CHRONIC: NOT LIKELY UNDER NORMAL USE. MERCURY IS AN
(EFTS OF OVEREXP) Explanation of Carcinogenicity:NOT RELEVANT. Effects of Overexposure:HLTH HAZ: EXPERIMENTAL TERATOGEN, GI & CNS POISON. MANGANESE IS AN EXPERIMENTAL TERATOGEN & MUTAGEN. ZINC OXIDE IS HUMAN PULMONARY DISEASE PRODUCER. Medical Cond Aggravated by Exposure:RESPIRATORY INFECTIONS AND DISEASES. SKIN DISEASES.
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Firs t Aid:INHAL:REMOVE TO FRESH AIR, USE ARTF RESP IF NEEDED. SEEK MED ATTN. EYES:FLUSH @ LST 15 MIN W/FRESH RUNNING H*2O, OCCAS LIFTING UPPER & LOWER LID. SEEK MED ATTN. SKIN:THORO WASH AFFECTED AREA UNTIL NO TRACE OF MATL REMAINS. INGEST:NOT LIKELY UNDER NORMAL USE. IF INGEST SHOULD OCCUR, GET IMMED MED ATTN. DRINK LG QTY OF H*2O. EXPOS IN FIRE:REMOVE VICTIM FROM FIRE HAZ AREA TO FRESH AIR. SEEK MED ATTN.
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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 APPROVED SCBA AND FULL PROTECTIVE FOURMENT. TO AVOID INHALATION AND CONTACT WITH HAZ

DECOMPOSITION PRODUCTS.

Unusual Fire/Explosion Hazard: CELLS MAY RUPTURE WHEN EXPOSED TO EXCESSIVE HEAT.

======== Accidental Release Measures ===========

Spill Release Procedures:BATTERIES ARE DRY SOLID & CAN BE

HNDLD EASILY W/SHOVELS/SIMILAR EQUIP. WHEN ACCUMULATING LG QTY OF UNDISCHARGED BATTERIES FOR DISP PACK IN NON-CONDUCTIVE INSULATING MATL. AVOID HEAT & H*2O. USE RUB GL OVES FOR CLEANING UP SPILLS/HNDLG (SUPPDATA) Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER. =========== Handling and Storage ============================ Handling and Storage Precautions: DO NOT STORE UNPACKAGED CELLS TOGETHER SO CONTACTS CAN TOUCH. THIS SITUATION WILL RESULT IN CELL SHORTING ΑN D HEAT BUILD-UP. Other Precautions: DO NOT CHARGE, OVERHEAT (>160F), OR OPEN CELLS. AVOID CONTACT WITH WATER, SPARKS, OPEN FLAMES. ===== Exposure Controls/Personal Protection ======== Respiratory Protection: NONE NEEDED UNDER NORMAL USE. USE NIOSH/MSHA APPROVED RESPIRATOR APPROPRIATE FOR EXPOSURE OF CONCERN. Ventilation: NONE NEEDED UNDER NORMAL USE. Protective Gloves: NONE REQ UNDER NORM USE. RUBB(SUPP DATA) Eye Protection: CHEMICAL WORKERS GOGGLES. Other Protective Equipm ent:NONE REQUIRED UNDER NORMAL USE. Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER. Supplemental Safety and Health SPILL PROC: INTERNAL PARTS OF CELLS. USE ADEQUATE VENTILATION AND AVOID CONTACT OF CELL INTERNAL COMPONENTS WITH SKIN OR EYES. PROT GLOVES: GLOVES FOR HANDLING INTERNAL COMPONENTS. ======== Physical/Chemical Properties ============ Boiling Pt:B.P. Text:>212F,>100C Vapor Density:>1 Spec Gravity:>1 Evaporation Rate & Evaporation R Solubility in W ater:NEGLIGIBLE Appearance and Odor:BLACK SOLID GRANULES W/NO APPRECIABLE ODOR, ENCASED IN BATERY ASSEMBLY. ======== Stability and Reactivity Data ========== 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 FIRE SITUATION, MERCURY VAP, MANGANESE & ZINC OXIDE FUMES MAY BE EMITTED.

======= Disposal Considerations ==

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

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