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Product ID:DISCHARGED BATTERY DRY CARBON-ZINC, MK 106-MSDS Date:02/08/1991 FSC:6135 NIIN:01-067-8331 MSDS Number: BMDKP === Responsible Party === Company Name:NAVAL MINE WARFARE ENGINEERING ACTIVITY Address:CODE 60 BUILDING 1959 City:YORKTOWN State:VA ZIP: 23691-5076 Country: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 ==

Ingred Name:MERCURY (SARA III) 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:ZINC CHLORIDE (SARA III) CAS:7646-85-7 RTECS #:ZH1400000 Fraction by Wt: 4.0% OSHA PEL:1 MG/M3/2 STEL ACGIH TLV:1 MG/M3/2STEL FUME93 EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

Ingred Name:AMMONIUM CHLORIDE (SARA III) CAS:12125-02-9 RTECS #:BP4550000 Fraction by Wt: 4.0% OSHA PEL:10 MG/M3;20STEL FUME AC GIH TLV:10 MG/M3;20STEL FUME EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name:MANGANESE DIOXIDE CAS:1313-13-9 RTECS #:OP0350000 Fraction by Wt: 29.0% OSHA PEL:5 MG/M3 CEILING (MN) ACGIH TLV:5 MG/M3 (MN)

Ingred Name:CARBON BLACK CAS:1333-86-4 RTECS #:FF5800000 Fraction by Wt: 11.0% OSHA PEL:3.5 MG/M3 ACGIH TLV:3.5 MG/M3

Ingred Name:GRAPHITE CAS:7782-42-5 RTECS #:MD9659600 OSHA PEL:15 MPPCF RDUST ACGIH TLV:2 MG/M3 RDUST; 9293

Ingred Name:MANGANESE (SARA III) CAS:7439-96-5 RTECS #:OO92750 00 OSHA PEL:(C) 5 MG/M3 DUST ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name:ZINC OXIDE CAS:1314-13-2 RTECS #:ZH4810000 OSHA PEL:15MG/M3 TDUST/5 FUME ACGIH TLV:10MG/M3 TDUST; 9293

Ingred Name:AMMONIA (SARA III) CAS:7664-41-7 RTECS #:BO0875000 OSHA PEL:50 PPM ACGIH TLV:25 PPM/35 STEL; 9293 EPA Rpt Qty:100 LBS DOT Rpt Qty:100 LBS

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER. Routes of Entry: Inhalation:YES Skin:YES Ingestion:Y ES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:ACUTE: INHAL:MAY CAUSE IRRIT OR METAL FUME FEVER IN A FIRE SITUATION. INGEST:INGREDIENTS ARE POISONOUS. SKIN:MATERIALS MAY CAUSE SKIN OR EYE IRRITATION BY VAPOR OR DIRECT CONTACT. CHRONIC:NOT LIKELY U NDER NORMAL USE. IN A FIRE SITUATION, CELLS MAY RELEASE HAZARDOUS SUBSTANCES. Explanation of Carcinogenicity:NOT RELEVANT Effects of Overexposure:SEE HEALTH HAZARDS. Medical Cond Aggravated by E xposure:RESPIRATORY INFECTIONS AND DISEASES. SKIN DISEASES.

First Aid:INHAL:REMOVE TO FRESH AIR, USE ARTF RESP IF NEEDED. SEEK MD . EYE:FLUSH AT LEAST 15 MIN W/FRESH RUNNING H*20, OCCAS LIFTING UPPER & LOWER EYELID. SEEK MD ATTEN. SKIN:THORO WASH AFFECTED AREA UNTIL NO TRACE OF MATL REMAINS. INGEST:NOT LIKELY UNDER NORM USE. IF INGEST SHOULD OCCUR, GET IMMED MD ATTEN. DRINK LG QTYS OF H*20. EXPOS IN FI

RE:REMOVE VICTIM FROM FIRE HAZ AREA TO FRESH AIR. SEE	<
MD.	

Extinguishing Media: IN BULK STORAGE USE CO*2, FOAM OR DRY POWDER. WATER MAY CAUSE ELECTRICAL SHORTS. Fire Fighting Procedures: IN BULK STORAGE AREAS, WEAR NIOSH/MSHA APPROVED SCBA AND PROTECTIVE CLOTHING TO AVOID INHALATION AND CONTACT WITH HAZARDOUS DECOMPOSITION PRODUCTS. Unusual Fire/Explosion Hazard: CELLS MAY RUPTURE WHEN EXPOSED TO EXCESSIVE HE AT. Spill Release Procedures: BATTERIES ARE DRY SOLID & CAN BE HANDLED EASILY W/SHOVELS OR SIMILAR EQUIP. WHEN ACCUMULATING LG QUANTITIES OF UNDISCHARGED BATTERIES FOR DISPOSAL PACK IN NON-CONDUCTIVE INSULATING MATERIAL. AVOID HEA T & WATER. USE RUB GLOVES FOR CLEANING (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 BUILD-UP. Other Precautions: DO NOT CHARGE, OVERHEAT (GREATER THAN 160 F), OR OPEN CELLS. Respiratory Protection: NONE NEEDED UNDER NORMAL USE. NIOSH/MSHA APPROVED RESPIRATOR APPROPRIATE FOR EXPOSURE OF CONCERN. Ventilation:NONE NEEDED. Protective Gloves: NONE REQ UNDER NORM USE; USE (SUPP DATA) Eye Protection: CHEMICAL WORKERS GOGGLES . Other Protective Equipment: NONE REQUIRED UNDER NORMAL USE. Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER. Supplemental Safety and Health HAZ DECOMP PROD: AND ZINC CHLORIDE FUMES MAY BE EMITTED. PROT GLOVES: RUBBER GLOVES TO HANDLE INTERNAL CELL COMPONENTS. SPILL PROC: UP SPILLS OR HANDLING INTERNAL PARTS OF CELLS. USE ADEQUATE VENT AND AV OID CONTACT OF CELL INTERNAL COMPONENTSWITH SKIN OR EYES.

Boiling Pt:B.P. Text:>212F,>100C Vapor Density:>1 Spec Gravity:>1 Evaporation Rate & amp; Reference:>1 Solubility in Water:NEGLIGIBLE Appearance and Odor:BLACK SOLID GRANULES WITH POSS AMMONIA 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 160 F), CHAR GING Hazardous Decomposition Products:IN A FIRE SITUATION, MERCURY VAP, AMMONIUM CHLORIDE, AMMONIA, NITROUS OXIDES, CHLORINE, MANGANESE, ZINC OXIDE(SUPP DATA)

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

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