View NSN Online: https://aerobasegroup.de/nsn/6135-00-008-5344

Product ID:DISCHARGED BATTERY DRY CARBON-ZINC, MK 108-MSDS Date:02/08/1991 FSC:6135 NIIN:00-008-5344 MSDS Number: BMDJN === Responsible Party === Company Name:NAVAL MINE WARFARE ENGINEERING ACTIVITY Address:CODE 60 BUILDING 1959 City:YORKTOWN State:VA ZIP:2 3691-5076 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 ACG IH 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 #:OO927500 0 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:YE S 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 Ex posure: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 FIR

E:REMOVE VICTIM FROM FIRE HAZ AREA TO FRESH AIR. SEEK	
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 HEA** Τ. 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;U SE (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.

====== P

hysical/Chemical Properties ==========

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), CHARG ING 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.

Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department

of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.