View NSN Online: https://aerobasegroup.com/nsn/6135-00-008-5341

Product ID:DISCHARGED BATTERY DRY CARBON-ZINC, MK105-0 MSDS Date:02/08/1991 FSC:6135 NIIN:00-008-5341 MSDS Number: BNMMB === 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 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 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 CAS:12125-02-9 RTECS #:BP4550000 Fraction by Wt: 4.0% OSHA PEL:10MG/M3;20STEL, FUME ACGIH TLV:10MG/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 (AS MN DUST)

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 Other REC Limits:15 MPPCF (MFR) OSHA PEL:15 MPPCF RDUST ACGIH TLV:2 MG/M3 RDUST; 9293

Ingred Name:MANGANESE CAS:7439-96-5 RTECS #:OO9275000 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 CAS:7664-41-7 RTECS #:BO0875000 Other REC Limits:35 MG/M3 (MFR) 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: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 E YE IRRITATION BY VAPOR OR DIRECT CONTACT. CHRONIC: NOT LIKELY UNDER NORMAL USE. MANGANES & ZN CHLORIDE (EFTS OF OVEREXP) Explanation of Carcinogenicity:NOT RELEVANT. Effects of Ove rexposure:HLTH HAZ: ARE EXPERIMENTAL MUTAGENS & TUMOR PRODUCERS. ZN CHLORIDE IS AN EXPERIMENTAL TERATOGEN. Medical Cond Aggravated by Exposure: RESPIRATORY INFECTIONS AND DISEASES, SKIN DISEASES,

First Aid:INHAL:REMOVE TO FRESH AIR, USE ARTF RESP IF NEEDED. SEEK MED ATTN. EYES:FLUSH @ LST 15 MIN W/FRESH RUNNING H*20, OCCAS LIFTING UPPER & LOWER LID. SEEK MED ATTN. SKIN:THORO WASH AFFECTED AREA UNTIL NO TRA

CE OF MATL REMAINS. INGEST:NOT LIKELY UNDER NORMAL USE. IF INGEST SHOULD OCCUR, GET IMMED MED ATTN. DRINK LG QTY OF H*20. EXPOS IN FIRE: REMOVE VICTIM FROM FIRE HAZ AREA TO FRESH AIR. SEEK MED ATTN. 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 EQUIPMENT. U nusual Fire/Explosion Hazard: CELLS MAY RUPTURE WHEN EXPOSED TO EXCESSIVE HEAT. 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 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 (>160F), OR OPEN CELLS. AVOID CONTACT WITH WATER. Respiratory Protection: NONE NEEDED UNDER NORMAL USE. USE NIOSH/MSHA APPROVED RESPIRATOR APPROPRIATE FOR EXPOSURE OF CONCERN. Ventilation:NONE NEEDED. Protective Gloves: RUB GLOVES TO HNDLE INTERNAL COMPONENTS. Eye Protection: CHEM WORKERS GOGGLES IF CELLS OPENED. Other Protective Equipment: NONE REQUIRED UNDER NORMAL USE. Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER. Supplemental Safety and Health HAZ DECOMP: ZINC CHLORIDE FUMES MAY BE EMITTED. SPILL PROC:INTERNAL PARTS OF CELLS. USE ADEQUATE VENTILATION AND AVOID CONTACT OF CELL INTERNAL COMPONENTS WITH SKIN OR EYES.

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Boiling Pt:B.P. Text:>212F,>100C Vapor Density:>1 Spec Gravity:>1 Evaporation Rate & amp; Reference:>1(BUTYL ACETATE=1) Solubility in Water:NEGLIGIBLE Appearance and Odor:BLACK SOLID GRANULES W/POSSIBLE AMMONIA ODOR, ENCASED IN BATTERY ASSEMBLY

Stability Indicator/Materials to Avoid:YES KEEP AWAY FROM WATER. Stability Condition to Avoid:EXCESSIVE HEAT AND FIRE (HEAT ING ABOVE 160F), CHARGING. Hazardous Decomposition Products:IN FIRE SITUATION, MERCURY VAP, AMMONIA 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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