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Product ID:DISCHARGED BATTERY MERCURY-ZINC, MK 95-8 MSDS Date:02/11/1991 FSC:6135 NIIN:01-244-2666 MSDS Number: BMDKX === 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 #:0V4550000 Fraction by Wt: 5% 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: MERCURIC OXIDE (SARA III) CAS:21908-53-2 RTECS #:OW8750000 Fraction by Wt: 35% OSHA PEL:0.1 MG HG/M3, S ACGIH TLV:0.1 MG HG/M3, S Ingred Name: POTASSIUM HYDROXIDE (SARA III) 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 In gred Name:MANGANESE DIOXIDE CAS:1313-13-9 RTECS #:OP0350000 Fraction by Wt: 30% **OSHA PEL:5 MG/M3 CEILING** ACGIH TLV:5 MG/M3 DUST/1 FUME Ingred Name: MANGANESE (SARA III) CAS:7439-96-5 RTECS #:009275000 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

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: MN IS EXPERIMENTAL MUTAGEN. MN & HG ARE EXPTL TERATOGENS. MERCURY IS A HUMAN GI TRACT & CNS POISON. IN FIRE SITUATION, CELLS MAY RELEASE HAZ SUBS. ACUTE: INHAL: MAY CAUSE **IRRIT/METAL FUME FEVER IN A F IRE SITUATION. INGEST: INGS ARE** POISONOUS. SKIN: MATLS MAY CAUSE SKIN/EYE IRRIT BY VAPS/CONTACT. CHRONIC: NONE EXPECTED. Explanation of Carcino genicity:NOT RELEVANT Effects of Overexposure: HEADACHE, COUGH, CHEST TIGHTNESS, CHEMICAL PNEUMONITIS, HAND AND LIP TREMORS, MEMORY LOSS, DEPRESSION. Medical Cond Aggravated by Exposure: RESPIRATORY INFECTIONS AND DISEASES. First Aid:INHAL: REMOVE TO FRESH AIR, USE ARTF RESP IF NEEDED. SEEK MED ATTN. EYES: FLUSH AT LEAST 15 MINS W/FRESH RUNNING WATER,

ATTN. EYES: FLUSH AT LEAST 15 MINS W/FRESH RUNNING WATER, OCCASIONALLY LIFTING UPPER & LOWER LIDS. SEEK MED ATTN. SKIN:

THORO WASH AFFECTE D AREA UNTIL NO TRACE OF MATL REMAINS. SEEK MED ATTN IF NEEDED. INGEST: NOT LIKELY UNDER NORMAL USE. IF INGEST OCCURS, GET IMMED MED ATTN. DRINK LARGE QTYS OF WATER. EXPOS IN FIRE: REMOVE (SUPP DATA)

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

. AVOID INHAL AND CONTACT W/HAZARDOUS

DECOMPOSITION PRODUCTS.

Unusual Fire/Explosion Hazard:CELLS MAY RUPTURE WHEN EXPOS TO EXCESS HEAT. MAY RELEASE HG VAPORS WHEN HEATED WHICH REACTS VIOLENTLY W/CL, HYDROGEN PEROXIDE, MG, S, & HYDROCARBONS.

Spill Release Procedures: BATTERIES ARE DRY SOLID, CAN BE HANDLED EASILY W/SHOVELS/SIMILAR EQUIP. WHEN ACCUM LGE QTYS OF UNDISCHARGED BATTERIES FOR DISP PACK IN NON-CON DUCT INSULATE MATL. BATTERIES W/LEAKY CELLS SHLD BE PLACED IN STRONG FIBERBOARD BOX W/VERMICULITE(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 160F), OR OPEN **CELLS. AVOID CONTACT** WITH WATER. Respiratory Protection: USE NIOSH/MSHA APPROVED RESPIRATOR APPROPRIATE FOR EXPOSURE OF CONCERN. Ventilation: MECHANICAL VENTILATION RECOMMENDED. Protective Gloves: RUBBER GLOVES. Eye Protection: CHEMICAL WORKERS GOGGLES . Other Protective Equipment: NONE REQUIRED UNDER NORMAL USE. Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER. Supplemental Safety and Health FIRST AID PROT: VICTIM FROM FIRE HAZARD AREA TO FRESH AIR. SEEK MED ATTN. SPILL PROC: TO ABSORB ELECTROLYTE. AVOID HEAT & WATER. USE RUBBER GLOVES FOR CLEANING UP SPILLS OR HANDLING INTERNAL PARTS OF CELLS. USE ADEQUATE VENTILATION & AVOIDCONTACT OF CELL INTERNAL COMPONENTS WITH SKIN OR EYES. Boiling Pt:B.P. Text:>212F,>100C Vapor Pres:0.0002@25C Vapor Density:>1 Spec Gravity:>1 (H*2O=1) Evaporation Rate & amp; Reference:+1 (BUAC=1) Solubility in Water:NEGL **IGIBLE** Appearance and Odor: BLACK SOLID GRANULES, NO APPRECIABLE ODOR, ENCASED IN BATTERY ASSEMBLY.

Stability Indicator/Materials to Avoid:YES
KEEP AWAY FROM WATER. AVOID CHLORINE, HYDROGEN PEROXIDE, SULFUR, PHOSPHORUS, HYDROCARBONS, REDUCING AGENTS.
Stability Condition to Avoid:EXCESSIVE HEAT AND FIRE (HEATING ABOVE 160F), CHARGING.
Hazardous Decomposition Products:IN FIRE SITUATION, MERCURY VAPOR, MANGANESE, C

O, NO*X, & ZINC OXIDE FUMES MAY BE EMITTED.

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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