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JOHNSON CONTROLS INC GLOBE BATTERY DIV -- ABSORBED ELECTROLYTE BATTERY/DYNASTY -- 6140-01-111-3882

Product ID: ABSORBED ELECTROLYTE BATTERY/DYNASTY MSDS Date:09/15/1993 FSC:6140 NIIN:01-111-3882 MSDS Number: BSFSD === Responsible Party === Company Name: JOHNSON CONTROLS INC GLOBE BATTERY DIV Address: 5757 N GREEN BAY AVE Box:591 City:MILWAUKEE State:WI ZIP:53201 Co untry:US Info Phone Num:414-228-2746/FAX 414-961-6506 Emergency Phone Num:414-228-2746/800-424-9300(CHEMTREC) CAGE:25244 === Contractor Identification === Company Name: JOHNSON CONTROLS INC GLOBE BATTERY DIV Address:5757 N GREEN BAY AVE Box:591 City:MILWAUKEE State:WI ZIP:53201 Country:US Phone:800-365-7777 CAGE:25244

Ingred Name:LEAD (SARA 313) (CERCLA) CAS:7439-92-1 RTECS #:OF7525000 Fraction by Wt: 34% Other REC Limits:NONE RECOMMENDED OSHA PEL:SEE 1910.1025 ACGIH TLV:0.05MG/M3, A3; 9596 EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name:LEAD OXIDE CAS:1309-60-0 RTECS #:OG0700000 Fraction by Wt: 31% Other REC Limits:NONE RECOMMENDED

Ingred Name:LEAD SULFATE (SARA 313) (CERCLA) CAS:7446-14-2 RTECS #:OG4375000 Fraction by Wt: 41% Other REC Limits:NONE RECOMMENDED OSHA PEL:SEE 1910.1025 ACGIH TLV:0.15 MG(PB)/M3; 9596 EPA Rpt Qty:100 LBS DOT Rpt Qty:100 LBS

Ingred Name:SULFURIC ACID (SARA 302/313) (CERCLA) (40%) CAS:766 4-93-9 RTECS #:WS5600000 Fraction by Wt: 34% Other REC Limits:NONE RECOMMENDED OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3/3 STEL; 9596 EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER. Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:UNDER NORMAL CONDITIONS OF USE INTERNAL COMP WON'T PRESENT HEALT H HAZ.BATT ELECTRO(ACID)/LEAD EXPO

MAY OCCUR DURING BATT PRODUCT/CNTNR BREAK/UNDER EXTREME HEAT CONDITIONS(FIRE).INHAL:ACID MIST FROM BA TT USAGE MAY CAUSE RESP IRRIT.SKIN:ACIDIRRIT CONTACT DERM.SKIN ABSORP NOT SIGNIF.EYE:ACID IRRIT.INGEST:HANDS(SIGN/SYMP)

Explanation of Carcinogenicity:PER MSDS:IARC CLASSIFY STRONG INORG ACID MSIT CONTAINING SULFUREI ACID CAT 1;DOESN'T APPLY TO LIQ FORMS OF SOLN IN BATT.

Effects of Overexposure: CONTAM BY CONTACT W/INTERNAL COMP CAN CAUSE

PB/PB CMPDS INEST; WASH PRIOR TO EAT/DRINK/SMOKE.GI UPSET, LOSS OF APPETITE, DIARR, CONSTIPATION W/CRAMPS, DIFFI SLEEP, FTG, CORNEAL DMG, IRRIT MUC MEMB, UPPER RESP/ LUNG IRRIT. PB/CMPD: CHRONIC ANEMIA, KIDNEY/CNS DMG, REPROD SYS DMG. CORNEA SCARRING, CHRONIC BRONCHITIS, TOOTH ENAMAL EROSION

Medical Cond Aggravated by Exposure:INORG PB/CMPDS AGGRAVATE CHRONIC FORMS OF KIDNEY/LIVER/NEUROLOGIC DISEASES.CONTACT OF BATT ELECTROLYTE(ACID) W/SKIN MAY AGGRAVATE SKIN DISEASE SUCH AS EXZEMA & CONTACT DERMATITIS.

First Aid:INHAL:REMOVE FROM EXPO.ANY ACUE EFFECTS DEVELOP CONSULT PHYSICIAN.SKIN:WASH THOROUGHLY W/SOAP/WATER.CONMES INTO CONTACT W/CLOTH REMOVE/DISCARD.EYE:IMMED RINSE W/COOL RUNNING WATER FOR @LEAST 15MINS.SE EK MED ATTN AFT RINSING.INGEST:PB/PB CMPDS:CONSULT PHYSICIAN.ELECTROLYTE:DO NOT INDUCE VOMIT.REFET TO PHYSICIAN IMMED.

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Flash Point:487F,253C H2 Lower Limits:4.1 HYDROGEN Upper Limits:74.2 HYDROGM Extinguishing Media:DRY CHEMICAL, FOAM, CO2. Fire Fighting Procedures:USE POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS. Unusual Fire/Explosion Hazard:H2/O2 GASES PRODUCE IN CELLS DURING NORMAL BATT OPERATION.GASES ENTER AIR THRU VENT CAPS.TO AVOID CHANCE OF FIRE/EXPLO KEEP SPARKS/IGN SOURCES AWAY FROM BATTERY

Spill Re

lease Procedures: NONE SPECIFIED BY MANUFACTURER. HMIS: FOLLOW ALL APPLICABLE PROCEDURES. Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER. Handling and Storage Precautions: NONE SPECIFIED BY MANUFACTURER. Other Precautions: NONE SPECIFIED BY MANUFACTURER. Respiratory Protection: NONE REQUIRED UNDER NORMAL HNDLG CONDITIONS.DURING BATT FORMATION(HIGH-RATE CHARGE CONDITION)ACID MIST CAN BE GENERATED WHICH MAY CAUSE RESP IRRIT.IRRIT OCCURS WEAR RESP SUITABLE FOR PROTECTION AGAINS T ACID MIST. Ventilation: ADEQUATE VENTI. ROOM VENTI REQUIRED FOR BATT UTILIZED FOR STANDBY POWER GENERATION.NEVER RECHARGE BATT IN UNVENTI, ENCLSD Protective Gloves: VINYL COATED, PVC GAUNTLET TYP GLOVES. Eye Protection: CHEM SPLASH GOGG, VISOR-GOGS, CHEM FACESHD Other Protective Equipment: SAFETY SHOES RECOMMENDED WHEN HDNLG BATT.ALL FOOTWEAR MUST MEET ANSIZ41.1 REQMTS. Work Hygienic Practices: DON'T REMOVE VENT CAP.FOLLOW SHIP/HDNG INSTRUCT APPLICABLE TO BATT TYP. AVOID DMG TO TERMINALS/SEALS DON'T DOUBLE-STACK. Supplemental Safety and Health BOIL PT:LEAD 1755C, BATT ELECTRO 110-112C. BATT ELECT(ACID) CLEAR TO CLOUDY LIQ ABSORBED BY INTER BATT COMPO.ACID SAT PLOXIDE DARK RED-BROWN TO GRAY SOLID W/SLIGHT ACIDIC ODOR.BATT ELECT (ACID) 100% SO LUBLE IN WATER.LEAD-LEAD DIOXIDE ARE NOT SOLUBLE. INCOMPATBLE: PICRATES, FULMINATES. ======= HCC:N1 Boiling Pt:B.P. Text:SUPPLEMENT Melt/Freeze Pt:M.P/F.P Text:621F,327C Decomp Temp:Decomp Text:NP Vapor Pres:11.7 ACID Vapor Density:3.4 ACID Spec Gravity:1.3 ACID pH:NP Evaporation Rate & amp; Reference: NOT DETERMINED. Solubility in Water:SUPPLEMENTAL. Appearance and Odor:SUPPLEMENTAL. Percent Volatiles by Volume:N/DETR Corrosion Rate:NP

Stability Indicator/Ma

terials to Avoid:YES
P,S,K,CARBIDS,SULFIDE,PEROXIDES.COMBUST MATL,STORNG RED AGENTS,MOST METALS,CARBIDES,ORG MATLS,CHLORATES,NITRATES,(SUPPL)
Stability Condition to Avoid:SPARKS & OTHER SOURCES OF IGNITION. HIGH TEMP.BATT ELECTRO RX W/WTER TO PRODUCE HEAT.CAN RX W/OXIDIZING/REDUCING AGENTS.
Hazardous Decomposition Products:PB/PB CMPDS:OXIDES OF LEAD & SULFUR. BATT ELECTROLYTE:HYDROGEN,SULFUR DIOXIDE,SULFUR TRIOXIDE.

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Waste Disposal Methods:NONE SPECIFIED BY MANUFACTURER. HMIS:FOLLOW ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

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