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JOHNSON CONTROLS INC GLOBE BATTERY DIV -- LEAD ACID BATTERY (SEE SUPPLEMENTAL) -- 6140-01-433-1883

Product ID:LEAD ACID BATTERY (SEE SUPPLEMENTAL) MSDS Date:09/15/1993 FSC:6140 NIIN:01-433-1883 MSDS Number: CKSPT === 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:414-228-2746/800-424-9300(CHEMTREC) Emergency Phone Num: (800) 424-9300 Resp. Party Other MSDS Num.:LB Chemtrec Ind/Phone:(800)424-9300 CAGE:25244 === Contractor Identification === Company Name: BATTERY OUTLET INC Address:1608 CAMPOSTELLA RD Box:City:CHESAPEAKE State:VA ZIP:23324 Country:US Phone:757-545-4442 Contract Num:SP0411-01-M-EJ51 CAGE:0FGN2 Company Name: CELL ENERGY INC Address:3190-B ORANGE GROVE AVE Box:City:NORTH HIGHLANDS State:CA ZIP:95660-5706 Country:US Phone:

916-484-7974 Contract Num:SP0411-00-M-EK69 CAGE:1U269 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 CAS:7439-92-1 RTECS #: OF7525000 = Wt:34. ACGIH TLV:0.15 MG/M3 EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB Ingred Name:LEAD DIOXIDE CAS:1309-60-0 RTECS #:OG0700000 = Wt:31. Ingred Name:LEAD SULFATE CAS:7 446-14-2 RTECS #:OG4375000 = Wt:1. OSHA PEL:SEE 1910.1025 ACGIH TLV:0.15 MG/M3 EPA Rpt Qty:100 LBS DOT Rpt Qty:100 LBS Ingred Name: SULFURIC ACID, (35%), BATTERY ELECTROLYTE (ACID) CAS:7664-93-9 RTECS #:WS5600000 = Wt:34. OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3 ACGIH STEL:3 MG/M3 EPA Rpt Qty:1000 LBS

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO H

DOT Rpt Qty:1000 LBS

ealth Hazards Acute and Chronic:INHALATION: ACID MIST GENERATED DURING BATTERY FORMATION MAY CAUSE RESPIRATORY IRRITATION. SPILLAGE OF ACID FROM BATTERIES IN CONFINED ARES MAY ALSO LEAD TO EXPOSURE TO SULFURIC ACID MIST. SKIN CONTAC T: BATTERY ELECTROLYTE (ACID) MAY CAUSE IRRITATION, CONTACT DERMATITIS. SKIN ABSORPTION: SKIN ABSORPTION IS NOT A SIGNIFICANT ROUTE OF ENTRY. EYE CONTACT: BATTERY ELECTROLYTE (ACID) WILL IRRITATE THE EYES UPON CONTACT. INGESTION: HANDS C

ONTAMINATED BY CONTACT WITH INTERNAL COMPONENTS OF A BATTERY CAN CAUSE INGESTION OF LEAD/LEAD COMPOUNDS. HANDS SHOULD BE WASHED PRIOR TO EATING, DRINKING, OR SMOK ING.

Explanation of Carcinogenicity:IARC HAS CLASSIFIED "STRONG INORGANIC ACID MIST CONTAINING SULFURIC ACID" AS A CATEGORY 1 CARCINOGEN. INORGANIC ACID MIST (SULFURIC ACID MIST) IS NOT GENERATED UNDER NORMAL USE OF THIS PRODUCT. MISUSE OF THE PRODUCT, SUCH AS OVERCHARGING, MAY HOWEVER RESULT IN THE GENERATION O

F SULFURIC ACID MIST.

Effects of Overexposure: ACUTE EFFECTS OF OVEREXPOSURE TO LEAD COMPOUNDS ARE: GI (GASTROINTESTINAL) UPSET WHICH MAY BE LOSS OF APPETITE, DIARRHEA AND/OR CONSTIPATION WITH CRAMPING, DIFFICULTY IN SLEEPING, AND FATIGUE. EXPOSUR E AND/OR CONTACT WITH BATTERY ELECTROLYTE (ACID) MAY LEAD TO ACUTE IRRITATION OF THE SKIN, CORNEAL DAMAGE OF THE EYES, AND IRRITATION OF THE MUCOUS MEMBRANES OF THE EYES AND UPPER RESPIRATORY SYSTEM I NCLUDING LUNGS. LEAD AND

ITS COMPOUNDS

MAY CAUSE CHRONIC ANEMIA, DAMAGE TO THE KIDNEYS AND NERVOUS SYSTEM. LEAD MAY ALSO CAUSE REPRODUCTIVE SYSTEM DAMAGE AND CAN AFFECT DEVELOPING FETUSES IN PREGNANT WOMEN.

Medical Cond Aggravated by Exposure: INORGANIC LEAD & ITS COMPOUNDS CAN AGGRAVATE CHRONIC FORMS OF KIDNEY, LIVER & NEUROLOGIC DISEASES. CONTACT OF BATTERY ELECTROLYTE WITH THE SKIN MAY AGGRAVATE SKIN DISEASES SUCH AS ECZEMA.

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First Aid:INHALATION: REMOVE FROM EXPOSURE AND CONSULT A PHYSICIAN IF ANY OF THE ACUTE EFFECTS LISTED ABOVE DEVELOP. SKIN: WASH THOROUGHLY WITH SOAP AND WATER. IF ACID IS SPLASHED ON CLOTHING, REMOVE AND DISCAR D. IF ACID IS SPLASHED IN SHOES, REMOVETHEM IMMEDIATELY AND DISCARD. ACID CANNOT BE REMOVED FROM LEATHER. EYES: IMMEDIATELY RINSE WITH COOL RUNNING WATER FOR AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTIO N AFTER RINSING. INGESTION: LEAD/LEAD COMPOUNDS: CONSULT

## A PHYSICIAN. BATTERY ELECTROLYTE (ACID): DO NO INDUCE VOMITING. REFER TO A PHYSICIAN IMMEDIATELY.

Flash Point:=-259.C, -434.2F H2 Autoignition Temp:=580.C, 1076.F Autoignition Temp Text:H2 Lower Limits:4.1 Upper Limits:74.2 Extinguishing Media: DRY CHEMICAL, FOAM, OR CO2. Fire Fighting Procedures: USE POSITIVE PRESSURE, SELF-CONTAINED **BREATHING APPARATUS.** Unusual Fire/Explosion Hazard: HYDROGEN AND OXYGEN GASES ARE PRODU CED IN THE CELLS DURING NORMAL BATTERY OPERATION, HYDROGEN IS FLAMMABLE AND OXYGEN SUPPORTS COMBUSTION. THESE GASES ENTER THE AIR THROUGH THE VENT CAPS. TO AVOID THE CHANCE OF A FIRE OR EXPLOSION, KEEP SPARKS AND OTHER SOURCES OF IGNITION AWAY FROM THE BATTERY. Spill Release Procedures: REMOVE COMBUSTIBLE MATERIALS AND ALL SOURCES OF IGNITION. CONTAIN SPILL BY DIKING WITH SODA ASH OR QUICKLIME. COVER SP ILL WITH EITHER CHEMICAL. MIX WELL. MAKE CERTAIN MIXTURE IS NEUTRAL THEN COLLECT R ESIDUE AND PLACE IN A DRUM OR OTHER SUITABLE CONTAINER, DISPOSE OF AS HAZARDOUS WASTE, WEAR ACID RESISTANT BOOTS, CHEMCIAL FACESHIELD, CHEMICAL SPLASH GOGGLES, AND ACID **RESISTENT GLOVES.** Neutralizing Agent:SODA ASH AND QUICKLIME. Handling and Storage Precautions: AN EYEWASH FOUNTAIN AND SAFETY SHOWER SHOULD BE LOCATED IN OR NE AR THE PRODUCTION OR STORAGE AREAS(S) FOR LEAD/ACID BATTERIES. SUCH STORAGE AREAS SHOULD BE EQUIPPED WITH A CONTAINMENT FACILITY WHICH C APTURES SPILLS OF ACID SO THAT THEY

MAY BE NEUTRALIZED, COLLECTED, AND DISPOSED OF PROPERLY. Other Precautions:NO DATA PROVIDED BY RESPONSIBLE PARTY.

Respiratory Protection:NONE REQUIRED UNDER NORMAL HANDLING CONDITIONS. DURING BATTERY FORMATION (HIGH-RATE CHARGE CONDITION), A CID MIST CAN BE GENERATED WHICH MAY CAUSE RESPIRATORY IRRITATION. IF **IRRITATION OCCURS, WEAR A R ESPIRATOR SUITABLE FOR PROTECTION** AGAINST ACID MIST. Ventilation:STORE LEAS/ACID BATTERIES WITH ADEQUATE VENTILATION. ROOM VENTILATION IS REQUIRED FOR BATTERIES UTILIZED FOR STANDBY POWER GENERATION. Protective Gloves: VINYL COATED, PVC, GAUNTLET TYPE GLOVES WITH ROUGH FINISH. Eye Protection: CHEMICAL SPLASH GOGGLES, VISOR-GOGS OR A CHEMICAL FACESHIELD OVER SAFETY GLASSES Oth er Protective Equipment: SAFETY SHOES WORN WITH RUBBER/NEOPRENE BOOTS OR STEEL-TOED RUBBER/NEOPRENE BOOTS TO BE WORN OVER SOCKS. PLACE PANTS LEGS OVER BOOTS TO KEEP ACID OUT OF BOOTS. Work Hygienic Practices: AN EYEWASH FOUNTAIN AND SAFETY SHOWER SHOULD BE LOCATED IN OR NEAR THE PRODUCTION OR STORAGE AREAS(S) FOR LEAD/ACID BATTERIES.

Supplemental Safety and Health

USA BATTERY CARRIER TO LIFT A BATTERY OR PLACE HANDS AT OPPOSITE CORNERS TO AVOID SPILLING ACID THROUGH THE VENTS.

AVOID CONTACT

WITH INTERNAL COMPONENTS OF THE BATTERIES. NEVER RECHARGE BATTERIES IN AN UNVENTILATED, ENCLOSED SPACE. CELL ENERGY P/N: 31P-PHD.

HCC:C1 Boiling Pt:=1755.C, 3191.F B.P. Text:LEAD Melt/Freeze Pt:=327.4C, 621.3F M.P/F.P Text:LEAD Vapor Pres:11.7 ACID Vapor Density:3.4ACID Spec Gravity:1.210-1.300 ACID Evaporation Rate & amp; Reference:NOT DETERMINED Solubility in Water:100% ACID Appearance and Odor:BATTERY ELECTROLYTE (ACID) IS A CLEAR TO CLOUDY LIQUID WITH SLIGHT ACIDIC ODOR.

Stability Indicator/Materials to Avoid:YES

LEAD/ACID COMPOUNDS: POTASSIUM, CARBIDES, SULFIDES, PEROXIDES, PHOSPHORUS SULFUR. BATTERY ELECTROLYTE (ACID): COMBUSTIBLE MATERIALS, STRONG REDUCING AGENTS, MOST METALS, CARBIDES, ORGANIC MATERIALS, CHLORATES, NITRATES, PIC Stability Condition to Avoid:SPARKS AND OTHER SOURCES OF IGNITION MAY GNITE HYDROGEN GAS. HIGH TEMPERATURE. BATTERY ELECTROLYTE(ACID) WILL REACT WITH WATER TO PRODUCE HEAT.

Hazardous Decomposition Products:LEAD/LEAD COMPOUNDS: OXIDES OF LEAD AND SULFUR. BATTERY ELECTROLYTE (ACID): HYDROGEN, SULFUR DIOXIDE, SULFUR TRIOXIDE.

Toxicological Information: NO DATA PROVIDED BY RESPONSIBLE PARTY.

Ecological:NO DATA PROVIDED BY RESPONSIBLE PARTY.

Waste Disposal Methods:BATTERY ELECTROLYTE (ACID): NEUTRALIZE AS ABOVE FOR A SPILL, COLLECT RESIDUE & PLACE IN A DRUM OR SUITABLE CONTAINER. DISPOSE OF AS HAZARDOUS WASTE. DO NOT FLUSH LEAD CONTAMINATED ACID TO SEWER. BATT ERIES: SENT TO LEAD SMELTER FOR RECLAMATION FOLLOWING APPLICABLE FEDERAL, STATE & LOCAL REGULATIONS.

SARA Title III Information: THE CONTENTS OF THIS PRODUCT ARE TOXIC CHEMICALS THAT ARE SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 302 AND 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 (40 CFR 355 AND 372).
Federal Regulatory Information: NO DATA PROVIDED BY RESPONSIBLE PARTY.
State Regulatory Information: NO DATA PROVIDED BY RESPONSIBLE PARTY.

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