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Product ID: ABSORBED ELECTROLYTE BATTERY/DYNASTY MSDS Date:01/01/1997 FSC:6140 NIIN:01-111-3882 Status Code:A **MSDS Number: CKJST** === Responsible Party === Company Name: JOHNSON CONTROLS INC GLOBE BATTERY DIV Address: 5757 N GREEN BAY AVE Box:591 City:MILWAUKEE State:W L ZIP:53201 Country:US Info Phone Num:414-228-2746/800-424-9300(CHEMTREC) Emergency Phone Num:414-228-3138 Resp. Party Other MSDS Num.:L 84 Chemtrec Ind/Phone:(800)424-9300 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 CAS:7439-92-1 RTECS #:OF752500 0 = Wt:50. 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:21.

Ingred Name:LEAD SULFATE CAS:7446-14-2 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 (ELECTROLYTE) CAS:7664-93-9 RTECS #:WS5600000 = Wt:22. OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3 ACGIH STEL:3 MG/M3 EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

====== Hazards Iden

LD50 LC50 Mixture:NO DATA PROVIDED BY RESPONSIBLE PARTY. Reports of Carcinogenicity:NTP:UNKNOWN IARC:YES Health Hazards Acute and Chronic:INHALATION: ACID MIST GENERATED DURING BATTERY FORMATION MAY CAUSE RESPIRATORY IRRITATION. SKIN: BATTERY ELECTROLYTE (ACID) MAY CAUSE IRRITATIVE CONTACT DERMATITIS. SKIN ABSORPTION: SKIN ABSORPTION IS NOT A SIGNIFICANT ROUTE OF ENTRY. EYE:BATTERY ELECTROLYTE (ACID) WILL IRRITATE THE EYES UPON CONTACT. I NGESTION: HANDS CONTAMINATED BY CONTACT WITH INTERNAL COMPONENTS OF A BATTERY CAN CAUSE INGESTIO N OF LEAD/LEAD COMPOUNDS. HANDS SHOULD BE WASHED PRIOR TO EATING, DRINKING OR SMOKING.

Explanation of Carcinogenicity:THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) HAS CLASSIFIED "STRONG INORGANIC ACID MIST CONTAINING SULFURIC ACID" AS A CATEGORY 1 CARCINOGEN, A SUBSTANCE THAT IS CARCINOOGENIC TO HUMANS. THI S CLASSIFICATION DOES NOT APPLY TO LIQUID FORMS OF SULFURIC

ACID OR SULFURIC ACID SOLUTIONS WITHIN A BATTERY.

Effects of Overexposure: ACUTE EFFECTS OF OVEREXPOSURE TO LEAD ARE GI (GASTROINTESTINAL) UPSET WHICH MAY BE LOSS OF APPETITE, DIARRHEA &/OR COMSTIPATION WITH CRAMPING, DIFFICULTY IN SLEEPING, & FATIGUE. EXPOSURE &/OR CONTACT WITH BATTEY ELECTROLYTE (ACID) MAY LEADTO IRRITATION OF THE SKIN, CORNEAL DAMAGE TO THE EYES IF NOT WASHED IMMEDIATELY, & IRRITATION OF THE MUCUOUS MEMBRANES OF THE EYES & UPPER RESPIRATORY SYSTEM

INC LUDING LUNGS. CHRONIC EFFECTS: LEAD & ITS COMPOUNDS MAY CAUSE CHRONIC ANEMIA, DAMAGE TO THE KIDNEYS & NERVOUS STSTEM. LEAD MAY ALSO CAUSE REPRODUCTIVE SYSTEM DAMAGE & CAN AFFECT DEVELOPING

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

First Aid:INHALATION: REMOVE FROM EXPOSURE & CONSULT A PHYSICIAN IF ANY OF THE ACUTE EFFECTS LISTED DEVELOP. SKIN: WASH THOROUGHLY WITH SOAP & WATER. IF ELECTROLYTE COMES INTO CONTACT WITH CLOTHING, REMOVE & DI SCARD. EYE: IMMEDIATELY RINSE WITH COOL RUNNING WATER FOR AT LEAST 15 MINS. SEEK MEDICAL ATTENTION AFTER RINSING. INGESTION: LEAD/LEAD COMPOUNDS, CONSULT A PHYSICIAN. ELECTROLYTE: DO NOT INDUCE VOMITI NG. REFER TO A PHYSICIAN IMMEDIATELY.

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Flash Point:=259.C, 498.2F HYDROGEN Autoignition Temp:=580.C, 1076.F Autoignition Temp Text:H2 Lower Limits:4.1 Upper Limits:74.2 Extinguishing Media:DRY CHEMICAL, FOAM, OR CARBON DIOXIDE (CO2). Fire Fighting Procedures:USE POSITIVE PRESSURE SELF CONTAINED BREATHING APPARATUS. Unusual Fire/Explosion Hazard:HYDROGEN & OXYGEN GASES ARE PRODUCTED IN THE CELLS DURING NORMAL BATTERY OPERATION (HYDROGEN IS FLAMMABLE & OXYGEN SUPPORTS COMBUSTION). THESE GASES ENTER THE AIR THROUGH THE VENT CAPS. TO AVOID THE C HANCE OF A FIRE OR EXPLOSION, KEEP SPARKS & OTHER SOURCES OF IGNITION AWAY FROM THE BATTERY.

Spill Release Procedures:REMOVE COMBUSTIBLE MATERIALS & ALL SOURCES OF IGNITION. COVER SPILL WITH SODA ASH (SODIUM CARBONATE) OR QUICKLIME (CALCIUM OXIDE). MIX WELL. MAKE CERTAIN MIXTURE IS NEUTRAL THEN COLLECT RESIDUE & PLAC E IN

A DRUM OR OTHER SUITABLE CONTAINER. DISPOSE OF AS A HAZARDOUS WASTE. WEAR ACID-RESISTANT BOOTS, CHEMICAL FACESHIELD, SPLASH GOGGLES & ACID RESISTANT GLOVES. DO NOT RELEASE UNNEUTRALIZED ACID!

Neutralizing Agent:SODA ASH (SODIUM CARBONATE) OR QUICKLIME (CALCIUM OXIDE)

Handling and Storage Precautions:STORE LEAD/ACID BATTERIES WITH ADEQUATE VENTILATION. ROOM VENTILATION IS REQUIRED FOR BATTERIES UTILIZED

FOR STANDBY POWER GENERATION. NEVER RE-CHARGE BATTERIES IN AN UNVENTILATED, ENCLOSED SPACE. DO NOT REMOVE VENT CAPS. Other Precautions:FOLLOW SHIPPING & HANDLING INSTRUCTIONS WHICH ARE APPLICABLE TO THE BATTERY TYPE. TO AVOID DAMAGE TO TERMINALS AND SEALS, DO NOT DOUBLE-STACK INDUSTRIAL BATTERIES.

======= Exposure Controls/Personal Protection ==========

Respiratory Protection:NONE REQUIRED UNDER NORMAL HANDLING CONDITIONS. DURING BATTERY FORMATION (HIGH-RATE CHARGE

CONDITION), ACID MIST

CAN BE GENERATED WHICH MAY CAUSE RESPIRATORY IRRITATION. IF IRRITATION OCCURS, WEAR A R ESPIRATOR SUTIABLE FOR PROTECTION AGAINST ACID MIST.

Ventilation:NO DATA PROVIDED BY RESPONSIBLE PARTY.

Protective Gloves: VINYL COATED, PVC, GAUNTLET TYPE GLOVES WITH ROUGH FINISH ARE PREFERRED

Eye Protection: CHEMICAL SPLASH GOGGLES, "VISOR-GOGS", CHEMICAL FACE SHIELD OVER SAFETY GLASSES

Other Protective Equipment:SAFETY SHOES ARE RECOMMENDED WHEN HANDLING BATTERI

ES. ALL FOOTWEAR MUST MEET REQUIREMENTS OF ANSI Z41.1 - REV 1972. WEAR ACID-RESISTANT BOOTS. Work Hygienic Practices: WASH HANDS THOROUGHLY BEFORE EATING, DRINKING OR SMOKING. DISCARD COMTAMINATED CLOTHING. Supplemental Safety and Health NO DATA PROVIDED BY RESPONSIBLE PARTY. HCC:Z4 Boiling Pt:B.P. Text:110 C-112 C (ACID) Melt/Freeze Pt:=327.C, 620.6F M.P/F.P Text:(LEAD) Vapor Pres:11.7 (ELECTROLYTE) Vapor Density:3.4 (ACID) Spec Gravity:1.3 (ACID) Evaporation Rate & amp; Reference:NOT DETERMINED Solubility in Water:COMPLETE (ACID) Appearance and Odor: ELECTROLYTE-CLEAR TO CLOUDY LIQUID ABSORBED BY INTERNAL BATTERY COMPONENTS. Percent Volatiles by Volume:N/D Stability Indicator/Materials to Avoid:YES LEAD/LEAD COMPOUNDS: POTASSIUM, CARBIDES, SULFIDES, PEROXIDES, PHOSPHORUS, SULFUR. BATTERY ELECTROLYTE (ACID): COMBUSTIBLE MATERIALS , STRONG REDUCING AGENTS, MOST METALS, CARBIDES, ORGANIC MATERIALS, CHLORATES, NITRATES, PI Stability Condition to Avoid: SPARKS AND OTHER SOURCES OF IGNITION. HIGH TEMPERATURES. BATTERY ELECTROLYTE (ACID) WILL REACT WITH WATER TO PRODUCE HEAT. CAN REACT WITH OXIDIZING OR REDUCING AGENTS. Hazardous Decomposition Products: LEAD/LEAD COMPOUNDS: OXIDES OF LEAD & SULFUR. BATTERY ELECTROLYTE (ACID): HYDROGEN, SULFUR DIOXIDE, SULFUR TRIOXIDE. Conditions to Avoid Polymerization:WILL N OT OCCUR. Toxicological Information: NO DATA PROVIDED BY RESPONSIBLE PARTY. Ecological:NO DATA PROVIDED BY RESPONSIBLE PARTY. Waste Disposal Methods: ELECTROLYTE: NEUTRALIZE AS FOR A SPILL, COLLECT

RESIDUE & PLACE IN A DRUM OR SUTIABLE CONTAINER. DISPOSE OF AS A HAZARDOUS WASTE. DO NOT F

LUSH LEAD CONTAMINATED ACID TO SEWER. BATTERIES:SEND TO LEAD SMELT ER FOR RECLAIMATION FOLLOWING APPLICABLE FEDERAL, STATE & LOCAL REGULATIONS. PRODUCT CAN BE RECYCLED ALONG WITH AUTOMOTIVE (SLI) LEAD-ACID BATTERIES.

Transport Information:DOT-BATTERY, WET NON-SPILLABLE, NOT SUBJECT TO REGULATIONS. IATA-NOT RESTRICTED FOR AIR TRANSPORT-COMPLIES WITH IATA/ICAO SPECIAL PROVISION A67. IMO-BATTERY, WET NON-SPI LLABLE,

NOT SUBJECT TO REGULATI ONS.

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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