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JOHNSON CONTROLS,INC. BATTERY DIVISION -- LEAD/ACID BATTERY -- 6140-00-191-8506
========== Product Identification ==========

Product ID:LEAD/ACID BATTERY
MSDS Date:11/15/1985
FSC:6140
NIIN:00-191-8506
MSDS Number: BDHXC
=== Responsible Party ===
Company Name:JOHNSON CONTROLS,INC. BATTERY DIVISION
Address:5757 N. GREEN BAY AVE
Box:591
City:MILWAUKEE
State:WI
ZIP:53201
Info Phone Num:800-424-9300 (CHEMTREC)
Emergency Phone Num:414-228-3139
Preparer's Name:ALBERTA L. SCHUMACHER
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

========== Composition/Information on Ingredients ==========

Ingred Name:SULFURIC ACID (SARA III)
CAS:7664-93-9
RTECS #:WS5600000
Fraction by Wt: 35%
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3; 9192
EPA Rpt Qty:1000 L

BS
DOT Rpt Qty:1000 LBS

Ingred Name:LEAD (SARA III)
CAS:7439-92-1
RTECS #:OF7525000
OSHA PEL:0.05 MG/M3;1910.1025
ACGIH TLV:0.15 MG/M3;DUST 9192
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:LEAD PEROXIDE (LEAD DIOXIDE), (OSHA PEL FROM 29CFR
1910.1025)
CAS:1309-60-0
RTECS #:OG0700000
OSHA PEL:0.05 MG/M3 (PB)
ACGIH TLV:0.15 MG/M3(PB); 8990

Ingred Name:LEAD SULFATE (SARA III)
CAS:7446-14-2
RTECS #:OG4375000
OSHA PEL:SEE 1910.1025
ACGIH TLV:0.15 MG PB/M3; 9192
EPA Rpt Qty:100 LBS
DOT Rpt Q
ty:100 LBS

Ingred Name:WATER (% BASED ON SULFURIC ACID SOLUTION)
CAS:7732-18-5
RTECS #:ZC0110000
Fraction by Wt: 65%

========== Hazards Identification ==========

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:EYES:BURNS,PERMANENT
DAMAGE;SKIN:SEVERE BURNS,ULCERATION;INHALATION:DAMAGE TO
RESPIRATORY TRACT;INGESTION:CORROSION OF TEETH & DIGESTIVE SYSTEM.
CHRONIC:LEA

D MAY CAUSE ANEMIA & KIDNEY & NERVOUS SYSTEI M
DAMAGE.CAN AFFECT FETUS;SULFURIC ACIDMAY CAUSE SCARRING OF CORNEA,BRONCHITIS & EROSION OF TOOTH.
Explanation of Carcinogenicity:IARC STATES LEAD & LEAD COMPOUNDS COULD NOT BE CLASSIFIED AS TO ITS CARCINOGENICITY TO HUMANS.
Effects of Overexposure:SEE HEALTH HAZARDS.
Medical Cond Aggravated by Exposure:ECZEMA & DERMATITIS

========== First Aid Measures ==========

First Aid:EYES:IMMEDIATELY FLUSH WITH WATER FOR 15 MIN.SEE
DOCTOR;SKIN:WASH WITH SOAP & WATER.REMOVE CONTAMINATED CLOTHING & SHOES.SEE DOCTOR;INHALATION:REMOVE TO FRESH AIR.IF DISCOMFORT PERSISTS,SEE DOCTOR;ING ESTION:DRINK MILK OF MAGNESIA OR WATER IMMEDIATELY.DO NOT INDUCE VOMIT.SEE DOCTOR.

========== Fire Fighting Measures ==========

Flash Point:NONE
Extinguishing Media:DRY CHEMICAL,FOAM,CO*2
Fire Fighting Procedures:WEAR SCBA,FACESHIELD,FULL PROTECTIVE CLOTHING.
Unusual Fire/Explosion Hazard:H*2 & O*2 GASES ARE PRODUCED DURING
BATTERY OPN.H*2 IS FLAMMABLE & O*2 SUPPORTS COMBUSTION).KEEP SPARKS & OTHER IGNITION SOURCES AWAY FROM THE BATTERY.

========== Accidental Release Measures ==========

Spill Release Procedures:WEAR GOGGLES & ACID RESISTANT CLOTH & BOOTS.
COVER WITH SAND & NEUTRALIZE WITH SODA ASH (SODIUM CARBONATE) OR QUICKLIME (CALCIUM OXIDE). SCOOP UP & PLACE IN APPROPRIATE DISPOSAL CONTAINER. DO NOT FLUS H LEAD CONTAMINATED ACID TO SEWER.
N eutralizing Agent:SODA ASH (SODIUM CARBONATE) OR QUICKLIME (CALCIUM OXIDE)

========== Handling and Storage ==========

Handling and Storage Precautions:STORE AWAY FROM IGNITION SOURCES,COMBUSTIBLE MATERIALS.

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

Respiratory Protection:NONE NORMALLY REQUIRED.
Ventilation:MECHANICAL (GENERAL) VENTILATION.
Protective Gloves:CHEMICAL RESISTANT.
Eye Protection:CHEMICAL SPLASH GOGGLES.
Other Protective

Equipment:PROTECTIVE CLOTHING & SHOES IF CONTACT IS
POSSIBLE. EYEWASH & SAFETY SHOWER.
Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING. REMOVE &
LAUNDER CONTAMINATED CLOTHING. DISCARD SHOES.
Supplemental Safety and Health

========== Physical/Chemical Properties ==========

HCC:C1
Solubility in Water:COMPLETE
Appearance and Odor:BATTERY CASE CONTAINING 35% SULFURIC ACID

========== Stability and Reactivity Data ==========

Stability Indicator/Mate
rials to Avoid:YES
COMBUSTIBLE MATERIALS,STRONG REDUCERS,METALS,CARBIDES,ORGANIC
MATERIALS,CHLORATES,NITRATES,PICRATES,FULMINATES.
Stability Condition to Avoid:SPARKS,IGNITION SOURCES.
Hazardous Decomposition Products:HYDROGEN,SO*2 & SO*3

========== Disposal Considerations ==========

Waste Disposal Methods:ACID:DISPOSE OF AS HAZARDOUS WASTE.
BATTERIES:SEND TO LEAD SMELTER FOR RECLAMATION. COMPLY WITH ALL
APPLICABLE FEDERAL,STATE & LOCAL REGULATIONS

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