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JOHNSON CONTROLS INC GLOBE BATTERY DIV -- JC 670,ABSORBED ELECTROLYTE BATTERY -- 6140-00-432-0490
========== Product Identification ==========

Product ID:JC 670,ABSORBED ELECTROLYTE BATTERY
MSDS Date:02/01/1991
FSC:6140
NIIN:00-432-0490
MSDS Number: BRLXQ
=== Responsible Party ===
Company Name:JOHNSON CONTROLS INC GLOBE BATTERY DIV
Address:5757 N GREEN BAY AVE
Box:591
City:MILWAUKEE
State:WI
ZIP:53201
Coun
try: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
Company Name:LAWRENCE F D ELECTRIC CO THE
Address:5739 WEBSTER ST
Box:City:DAYTON
State:OH
ZIP:45414
Country:US
Phone:513-890-1059
CAGE:79542

========== Composition/Information o

n Ingredients ==========

Ingred Name:LEAD (GRID/SPONGE LEAD) (SARA III)
CAS:7439-92-1
RTECS #:OF7525000
Fraction by Wt: 34%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.05 MG/M3;1910.1025
ACGIH TLV:0.15 MG/M3;DUST 9293
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:LEAD DIOXIDE (LEAD PEROXIDE)
CAS:1309-60-0
RTECS #:OG0700000
Fraction by Wt: 31%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.05MG(PB)/M3
ACGIH TLV:O.15MG(PB)/M3 9293

Ingred Name:LEAD SULFATE (ANGLISITE) (SARA III)
CAS:7446-
14-2
RTECS #:OG4375000
Fraction by Wt: 1%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.05 MG PB/M3
ACGIH TLV:0.15 MG PB/M3; 9293
EPA Rpt Qty:100 LBS
DOT Rpt Qty:100 LBS

Ingred Name:SULFURIC ACID(35%), (GELLED/ABSORBED BATTERY ELECTROLYTE),
(SARA III)
CAS:7664-93-9
RTECS #:WS5600000
Fraction by Wt: 34%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3; 9293
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

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

Rou

tes of Entry: Inhalation:NO Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:UNDER NORMAL CONDITIONS OF USE, INTERNAL COMPONENTS WILL NOT PRESENT A HEALTH HAZARD. FOLLOWING INFORMATION IS BASED ON ACID LEAKAGE FROM DAMAGED BATTERY. EYES/SKIN: BURNS, SKIN IRRITATION AND EYE DAM AGE. INHALATION: NASAL AND RESPIRATORY IRRITATION FROM SULFUR OXIDE FUMES. INGESTION: STOMACH IRRITATION.
Effects of Overexposure:CONTACT WITH
ACID ELECTROLYTE FROM LEAKING
BATTERY: EYES/SKIN: BURNS, SKIN IRRITATION AND EYE DAMAGE. INHALATION: NASAL AND RESPIRATORY IRRITATION FROM SULFUR OXIDE FUMES. INGESTION: STOMACH IRRITATIO N. LEAD AND ITS COMPOUNDS MAY CAUSE CHRONIC ANEMIA, DAMAGE TO KIDNEYS, NERVOUS SYSTEM, REPRODUCTION SYSTEM.
Medical Cond Aggravated by Exposure:INORGANIC LEAD AND ITS COMPOUNDS, FROM LEAKING BATTERIES, CAN AGGRAVATE CHRONIC FORMS OF KIDNEY, LIVER. AND NEUROLOGIC DISEASES.SULFURIC ACI
D MAY AGGRAVATE SKIN
DISEASES SUCH AS ECZEMA AND DERMATITIS.

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

First Aid:BATTERY CONTAINS ACID ELECTROLYTE. NORMALLY, THERE IS EXTREME REMOTE POSSIBILITIES FOR LEAKAGE. IF SULFURIC ACID LEAKAGE CONTACTS EYES, FLUSH WITH LARGE AMOUNTS OF WATER. GET MEDICAL ATTENTION. FOR SK IN CONTACT, FLUSH AREA WITH LARGE AMOUNTS OF WATER. REMOVE CONTAMINATED CLOTHING. GET MEDICAL ATTENTION. INHALATION: MOVE TO FRESH AI
R. GET MEDICAL ATTENTION. INGESTION: GET MEDICAL ATTENTION.

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

Flash Point:NON-FLAMMABLE
Extinguishing Media:DRY CHEMICAL, FOAM, CARBON DIOXIDE.
Fire Fighting Procedures:COOL BATTERY EXTERIOR TO PREVENT RUPTURE. ACIDS MISTS AND VAPORS GENERATED IN A FIRE ARE TOXIC AND CORROSIVE.
Unusual Fire/Explosion Hazard:HYDROGEN GAS IS PRODUCED DURING NORMAL BATTERY OPERATION AND MAY EXPLODE IF IGNITED. KEEP SPARKS AND OTHER SOU

RCES OF IGNITION AWAY FROM BTTERY.

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

Spill Release Procedures:DO NOT RELEASE UNNEUTRALIZED ACID NOR FLUSH LEAD CONTAMINATED ACID TO SEWER. COVER SPILL WITH SODA ASH (SODIUM CARBONATE) OR QUICK LIME (CALCIUM OXIDE) TO NEUTRALIZE. COLLECT RESIDUE AND PLACE IN SUIT ABLE CONTAINER FOR LATER DISPOSAL.
Neutralizing Agent:SODA ASH (SODIUM CARBONATE) AND QUICK LIME (CALCIUM OXIDE).

========== Handling and St
orage ==========

Handling and Storage Precautions:PROTECT AGAINST PHYSICAL DAMAGE OF CASE MATERIAL. ADHERE TO PROPER CHARGING PROCEDURES.
Other Precautions:READ MANUFACTURERS LITERATURES, WHICH IS AVAILABLE UPON REQUEST.

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

Respiratory Protection:NONE REQUIRED UNDER NORMAL CONDITIONS OF USE.
Ventilation:NORMAL WORK AREA VENTILATION ADEQUATE FOR NORMAL USAGE.
Protective Gloves:NONE NORMALLY REQUIRED.
Eye Prot
ection:NONE NORMALLY REQUIRED.
Other Protective Equipment:NONE NORMALLY REQUIRED.
Work Hygienic Practices:FOLLOWING CONTACT WITH INTERNAL BATTERY COMPONENTS, WASH HANDS BEFORE EATING, DRINKING, OR SMOKING.
Supplemental Safety and Health
THESE BATTERIES ARE SEALED UNITS THAT UNDER NORMAL CONDITIONS OF USE, INTERNAL COMPONENTS WILL NOT PRESENT A HEALTH HAZARD. THE ABOVE INFORMATION IS PROVIDED FOR SULFURIC ACID AND LEAD IN THE EVENT OF BATTERY CONTAINER BREAKAGE.

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

HCC:N1
Spec Gravity:>1
Solubility in Water:SULFURIC ACID= 100%
Appearance and Odor:SEALED CELL BATTERY, TRANSPARENT TO OPAQUE CASE AND SEALED COVER WITH VENT CAPS

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

Stability Indicator/Materials to Avoid:YES
USE ONLY APPROVED CHARGING METHODS.
Stability Condition to Avoid:AVOID SHORTING TERMINALS ON BATTERY. DO NOT PUNCTURE BATTERY CASE. AVOID SPARKS AND OTHER SOURCES

OF
IGNITION.
Hazardous Decomposition Products:OXIDES OF LEAD, HYDROGEN, SULFUR DIOXIDE, SULFUR DIOXIDE, SULFUR TRIOXIDE.
Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

Waste Disposal Methods:DISPOSE OF WASTE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. SEND WASTE BATTERIES TO LEAD SMELTER FOR RECLAMATION FOLLOWING LOCAL, STATE AND FEDERAL REGULATIONS. DO NOT FLUSH LEAD CONTAMI NATED ACID TO
SEWER.