JOHNSON CONTROLS INC,GLOBE BATTERY DIV -- GEL CELL/DYNASTY/GELLED OR ABSORBED ELECTRO -- 6140-01-174-7249

========== Product Identification ==========

Product ID:GEL CELL/DYNASTY/GELLED OR ABSORBED ELECTRO
MSDS Date:09/29/1986
FSC:6140
NIIN:01-174-7249
MSDS Number: BQSXV
=== Responsible Party ===
Company Name:JOHNSON CONTROLS INC,GLOBE BATTERY DIV
Address:5757 N GREEN BAY AVE
Box:591
City:MILWAUKEE
State:WI
ZIP:53201
Country:US
Info Phone Num:414-228-1200
Emergency Phon
e Num:414-228-1200,800-424-9300(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:SPECIFICATIONS AND STANDARDS INC
Address:5515 SHAKESPEARE RD SUITE 310
Box:23501
City:COLUMBIA
State:SC
ZIP:29224
Country:US
Phone:803-754-1531
CAGE:0CDX7

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

Ingred Nam

e:LEAD (SARA III)
CAS:7439-92-1
RTECS #:OF7525000
Other REC Limits:NONE SPECIFIED
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
CAS:1309-60-0
RTECS #:OG0700000
Other REC Limits:NONE SPECIFIED
OSHA PEL:0.05 MG PB/M3
ACGIH TLV:0.15 MG PB/M3 9293

Ingred Name:LEAD SULFATE (SARA III)
CAS:7446-14-2
RTECS #:OG4375000
Other REC Limits:NONE SPECIFIED
OSHA PEL:SEE 1910.1025
ACGIH TLV:0.15 MG PB/M3; 9293
EPA Rpt Qty:100 LBS
DOT R
pt Qty:100 LBS

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

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

Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:PRODUCT IS AN ARTICLE UNDER OSHA WHICH
UNDER NORMAL USE IS NON-HAZ

ARDOUS. HOWEVER UNDER CERTAIN UNUSAL
CONDITIONS PERSONS MAY BE EXPOSED TO TOXIC LEAD,CORROSIVE SULFURIC ACID AND/OR EXPLOSIVE HYDROGEN .SEVERE BURNS AND EYE DAMAGE MAY RESULTFROM EXPOSURE TO SULFURIC ACID ELECTROLYTE AND ILLNESS FROM SULFUR OXIDE FUMES.

Explanation of Carcinogenicity:TESTING SHOWED THAT THERE IS
INSUFFICIENT EVIDENCE TO SHOW THAT LEAD CAN OR CANNOT CAUSE CANCER.

Effects of Overexposure:EXPOSURE TO EYES, SKIN, OR MUCOUS MEMBRANES MAY CAUSE SEVERE IRRITATIO
N AND BURNS. INHALATION OF MISTS MAY PRODUCE
RESPIRATORY DIFFICULTY. LEAD AND ITS COMPOUNDS MAY CAUSE CHRONIC ANEMIA, DAMAGE TO KI DNEYS AND NERVOUS SYSTEM.

Medical Cond Aggravated by Exposure:INORGANIC LEAD AND ITS COMPOUNDS CAN AGGRAVATE CHRONIC FORMS OF KIDNEY, LIVER, AND NEUROLOGIC DISEASES.CONTACT OF SULFURIC ACID WITH SKIN MAY AGGRAVATE SKIN DISEASES SUCH AS ECZEMA,CONTACT DERMATITIS.

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

First Aid:EYES:
FLUSH WITH LARGE AMOUNTS OF WATER. GET MEDICAL
ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH AREA WITH SOAP AND WATER. GET MEDICAL ATTENTION. INHALATION: MOVE TO FRESH AIR. IF SYMPTOMS OCC UR GET MEDICAL ATTENTION. INGESTION: DONOT INDUCE VOMITING. GET MEDICAL ATTENTION.

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

Extinguishing Media:NON-COMBUSTIBLE. FOR SURROUNDING FIRE USE DRY CHEMICAL, FOAM, OR CARBON DIOXIDE.

Fire Fighting Procedures:USE
POSITIVE PRESSURE, SELF-CONTAINED
BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:HYDROGEN AND OXYGEN ARE GENERATED AND VENTED TO THE AIR DURING NORMAL OPERATION. TO AVOID A FIRE OR EXPLOSION, KEEP SPARKS AND OTHER SOURCES OF IGNITION AWAY.

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

Spill Release Procedures:REMOVE COMBUSTABLE MATERIALS AND ALL SOURCES OF IGNITION. COVER SPILL WITH SODA ASH (SODIUM CARBONATE) OR CALCIUM OXIDE. MIX WELL. MAKE CERTA

IN MIXTURE IS NEUTRAL THEN
COLLECT RESIDUE AND PLACE IN SUI TABLE CONTAINER. DISPOSE OF AS HAZARDOUS WASTE.
Neutralizing Agent:SODIUM BICARBONATE, SODA ASH OR LIME.

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

Handling and Storage Precautions:STORE BATTERIES IN AREA WITH ADEQUATE VENTILATION. NEVER RECHARGE BATTERIES IN UNVENTILATED, ENCLOSED SPACE. PROTECT FROM PHYSICAL DAMAGE.
Other Precautions:MAKE CERTAIN VENT CAPS ARE ON TIGHTLY. FOLLOW SHIPPING
AND HANDLING INSTRUCTION WHICH ARE APPLICABLE TO THE BATTERY TYPE. TO AVOID DAMAGE TO TERMINALS AND SEALS, DO NOT DOUBLE-STACK INDUSTRIAL BATTERI ES.

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

Respiratory Protection:NONE REQUIRED UNDER NORMAL CONDITIONS OF USE.
Ventilation:WHEN PEL IS EXCEEDED LOCAL EXHAUST IS PREFERRED. USE ADEQUATE VENTILATION TO MAINTAIN EXPOSURE BELOW PEL.
Protective Gloves:ACID RESISTANT WITH ROUGH FINISH.
Eye Protection:SAFETY GLASSES
.
Other Protective Equipment:SAFETY SHOES ARE RECOMMENDED WHEN HANDLING BATTERIES.
Work Hygienic Practices:WASH AFTER HANDLING AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.
Supplemental Safety and Health
UNDER NORMAL CONDITIONS OF USE, THE GEL CELL/DYNASTY/GELLED OR ABSORBED ELECTROLYTE BATTERY WILL NOT RELEASE OR OTHERWISE RESULT IN EXPOSURE TO HAZARDOUS CHEMICALS. THEREFORE, ACCORDING TO 29 CFR,1910 .1200 SECTION (C), THIS MATERIAL HAS
BEEN CLASSIFIED AS AN
"ARTICLE". THE INGREDIENTS LISTED ARE FOR INFORMATION.

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

HCC:N1
Appearance and Odor:TRANSPARENT TO OPAQUE CASE AND SEALED COVER WITH SIDE OR TOP TERMINALS,ODORLESS

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

Stability Indicator/Materials to Avoid:YES
COMBUSTABLES, REDUCING AGENTS, METALS, CARBIDES, ORGANIC MATERIALS, CHLORATES, NITRATES, SULFIDES, PEROXIDES, SULFUR.
S

tability Condition to Avoid:HIGH TEMPERATURES, SPARKS, OPEN FLAMES AND OTHER SOURCES OF IGNITION.
Hazardous Decomposition Products:THERMAL DECOMPOSITION OR COMBUSTION MAY PRODUCE SULFUR TRIOXIDE, SULFUR DIOXIDE, HYDROGEN, OXIDES OF LEAD.
Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

Waste Disposal Methods:DISPOSE OF WASTE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. DO NOT FLUSH LEAD CONTAMINAT
ED ACID TO
SEWER. SEND WASTE BATTERIES TO LEAD SMELTER FOR RECLAMATION. NEUTRALIZE WASTE AND PLACE IN ACID-RESISTANT CONTAINERS FOR PROPER DISPOSAL.