

JOHNSON CONTROLS INC GLOBE BATTERY DIV -- GELL CELL/DYNASTY -- 6140-01-037-1358

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

Product ID:GELL CELL/DYNASTY

MSDS Date:02/01/1991

FSC:6140

NIIN:01-037-1358

MSDS Number: BRFRP

=== 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:414-228-2746,

414-228-1200

Emergency Phone Num:414-228-2746/800-424-9300(CHEMTREC)

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

CAGE:0FGN2

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

:LEAD (SARA III)
CAS:7439-92-1
RTECS #:OF7525000
Fraction by Wt: 34%
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 DIOXIDE, (LEAD PEROXIDE)
CAS:1309-60-0
RTECS #:OG0700000
Fraction by Wt: 31%
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
Fraction by Wt: 1%
Other REC Limits:NONE SPECIFIED
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 (SARA III)
CAS:7664-93-9
RTECS #:WS5600000
Fraction by Wt: 34%
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 =====

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.
Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:

NO IARC:YES OSHA:NO

Health Hazards Acute and Chronic:UNDER NORMAL CONDITIONS OF USE, INTERNAL COMPONENTS WILL NOT PRESENT A HEALTH HAZARD. FOLLOWING INFORMATION COVERS SULFURIC ACID AND LEAD IN EVENT BATTERY CASE IS BROKEN. ACID: SEVERE EYE, SKIN, UPPER RESPIRATORY SYSTEM IRRITATION. POSSIBLE CORNEAL DAMAGE, TEETH EROSION, BRONCHITIS. LEAD: ANEMIA, KIDNEY AND CNS DAMAGE.

Explanation of Carcinogenicity:LEAD IS LISTED UNDER IARC. TESTING SHOWS THERE IS INSUFFICIENT EVIDENCE TO SHOW THAT LEAD CAN OR CANNOT CAUSE CANCER.

Effects of Overexposure:ACID FROM BROKEN CASE: EYES: SEVERE IRRITATION, BURNS, CORNEAL DAMAGE. SKIN: SEVERE IRRITATION, BURNS. INHALATION: IRRITATION OF MUCOUS MEMBRANES AND UPPER RESPIRATORY SYSTEM AND LUNGS, BRONCHITIS. INGESTION: SEVERE IRRITATION AND BURNS TOMOUTH, THROAT AND STOMACH.

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

=====
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. IF SYMPTOMS PERSIST GET MEDICAL ATTENTION. INHALATION: MOVE TO FRESH AIR. GIVE OXYGEN/CPR IF NEEDED. INGESTION: GIVE LARGE AMOUNTS OF WATER OR MILK. DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION.

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

Lower Limits:4.1 (H2 GAS)

Upper Limits:74 (H2 GAS)

Extinguishing Media:DRY CHEMICAL, FOAM, CARBON DIOXIDE.

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

Unusual Fire/Explosion Hazard:FLAMMABLE AND EXPLOSIVE HYDROGEN GASES ARE PRODUCED IN THE BATTERY DURING NORMAL OPERATION. GASES ENTER AIR THRU VENT CAPS. KEEP AWAY FRPM IGNITION SOURCES.

=====
Accidental Release

Measures =====

Spill Release Procedures:REMOVE COMBUSTIBLE MATERIALS AND ALL IGNITION SOURCES. COVER SPILL WITH SODA ASH OR QUICKLIME. MIX WELL. MAKE CERTAIN MIXTURE IS NEUTRAL THEN COLLECT RESIDUE AND PLACE IN APPROPRIATE DISPOSAL CONTAINER .DO NOT FLUSH LEAD CONTAMINATED ACID TOSEWER.

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

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

Handling and Storage Precautio

ns:STORE WITH ADEQUATE VENTILATION. GOOD

ROOM VENTILATION IS REQUIRED FOR BATTERIES UTILIZED FOR STANDBY POWER GENERATION.

Other Precautions:NEVER RE-CHARGE BATTERIES IN AN UNVENTILATED, ENCLOSED SPACE. TO AVOID DAMAGE TO TERMINALS AND SEALS, DO NOT DOUBLE STACK BATTERIES. DO NOT PERMIT FLAMES OR SPARKS IN THE VICINITY OF BATTERIES.

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

Respiratory Protection:NONE REQUIRED.

Ventilation:GENERAL (MECHANICAL) VENTILATION.

Protective Gloves:VINYL COATED, PVC, GAUNTLET TYPE.

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

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

HCC:N1

Spec Gravity:>1

Solubility in Water:COMPLETE FOR ACID

Appearance and Odor:SOLID,T

TRANSPARENT TO OPAQUE CASE, SEALED COVER, SIDE
OR TOP TERMINALS, VENT CAPS.

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

Stability Indicator/Materials to Avoid: YES

ACID: COMBUSTIBLE MATERIALS, REDUCING AGENTS, MOST METALS, ORGANIC
MATERIAL, CHLORATES, NITRATES, PICRATES, FULMINATES.

Stability Condition to Avoid: SPARKS AND OTHER SOURCES OF IGNITION.

Hazardous Decomposition Products: HYDROGEN, SULFUR DIOXIDE, SULFUR
TRIOXIDE, OXIDES OF LEAD AND SULFUR..

Conditions t

o Avoid Polymerization: WILL NOT OCCUR.

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

Waste Disposal Methods: CONTACT YOUR LOCAL ENVIRONMENTAL OFFICER.
DISPOSE OF WASTE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL
REGULATIONS. DISPOSE OF ELECTROLYTE AS HAZARDOUS WASTE. DO NOT
FLUSH LEAD/ACID TO SEWER. BATTERIE S: SEND TO LEAD SMELTER FOR
RECLAMATION.

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for u

se by elements of the Department

of Defense. The United States of America in no manner whatsoever,

expressly or implied, warrants this information to be accurate and

disclaims all liability for its use. Any person utilizing this

document should seek competent professional advice to verify and

assume responsibility for the suitability of this information to their

particular situation.