

JOHNSON CONTROLS INC GLOBE BATTERY DIV -- GELL CELL/DYNASTY; LEAD ACID BATTERY --
6140-00-432-0490

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

Product ID:GELL CELL/DYNASTY; LEAD ACID BATTERY

MSDS Date:02/01/1991

FSC:6140

NIIN:00-432-0490

MSDS Number: BLZFN

=== Responsible Party ===

Company Name:JOHNSON CONTROLS INC GLOBE BATTERY DIV

Address:5757 N GREEN BAY AVE

Box:591

City:MILWAUKEE

State:WI

ZIP:53201

Co

Country:US

Info Phone Num:414-228-2746/800-424-9300

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

CAGE:25244

=== Contractor Identification ===

Company Name:BATTERY OUTLET OF HAMPTON INC

Address:2815 GEORGE WASHINGTON HWY

Box:City:TABB

State:VA

ZIP:23602

Country:US

Phone:804-867-8280

CAGE:0FTM0

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: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; 9192
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:LEAD PEROXIDE
CAS:1309-60-0
RTECS #:OG070
0000
Fraction by Wt: 31% %
Other REC Limits:NONE SPECIFIED

Ingred Name:LEAD SULFATE (SARA III)
CAS:7446-14-2
RTECS #:OG4375000
Fraction by Wt: 1% %
Other REC Limits:NONE SPECIFIED
OSHA PEL:SEE 1910.1025
ACGIH TLV:0.15 MG PB/M3; 9192
EPA Rpt Qty:100 LBS
DOT Rpt Qty:100 LBS

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

LD50 LC50 Mixture:NOT SPECIFIED BY MANUFACTURER.
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:UNKNOWN IARC:YE

S OSHA:NO

Health Hazards Acute and Chronic:ACUTE-LEAD MAY CAUSE GI UPSET, LOSS OF APPETITE, DIARRHEA, CONSTIPATION, CRAMPING, LACK OF SLEEP & FATIGUE. CONTACT WITH SULFURIC ACID MAY LEAD TO EYE, SKIN & REPIRATORY TRACT IRRITATION, CORNEAL & LU NG DAMAGE. CHRONIC-LEAD MAY CAUSE ANEMIA, KIDNEY & NERVOUS SYSTEM DAMAGE. ACID CAN CAUSE BRONCHITIS, EROSION OF TEETH.

Explanation of Carcinogenicity:LEAD IS POSSIBLY CARCINOGENIC TO HUMANS. PER MSDS. TESTING SHOWED INSUFFICIENT EVIDENCE TO SHOW LEAD CARCINOGENIC OR NOT

Effects of Overexposure:LEAD MAY CAUSE GI UPSET, LOSS OF APPETITE, DIARRHEA, CONSTIPATION, CRAMPING, LACK OF SLEEP & FATIGUE. CONTACT WITH SULFURIC ACID MAY LEAD TO EYE, SKIN & RESPIRATORY TRACT IRRITATION, CORNEAL & LUNG DA MAGE.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:OBTAIN MEDICAL ATTENTION IN ALL CASES OF EXPOSURE. EYES/SKIN: FLUSH WITH WATER FOR 15 MINUTES. KEEP EYELIDS OPEN. INHALATION: MOVE TO FRESH AIR. INGESTION: DO NOT INDUCE VOMITING. CALL PHYSICIAN IMMED IATELY.

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

Flash Point:NONFLAMMABLE

Lower Limits:NOT GIVEN

Upper Limits:NOT GIVEN

Extinguishing Media:DRY CHEMICAL , FOAM OR CARBON DIOXIDE

Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPER

ATED IN THE POSITIVE PRESSURE MODE.

Unusual Fire/Explosion Hazard:HYDROGEN AND OXYGEN GASES ARE PRODUCED IN THE CELLS DURING NORMAL BATTERY OPERATION. THEY ENTER THE SIR THROUGH VENT CAPS. KEEP AWAY SPARKS/SOURCES OF FIRE.

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

Spill Release Procedures:AVOID CONTACT WITH SULFURIC ACID ELECTROLYTE FROM BATTERY. LIME OR SODA MAY BE USED TO NEUTRALIZE AFTER DILUTING WITH WATER. CONTAIN LARGER SPILLS WITH SAWDUST OR OTH

ER ABSORBING

MATERIAL. WEAR ACID RESISTANT GLOVES AND PROTECTIVE CLOTHING.
Neutralizing Agent:SODIUM BICARBONATE SOLUTION (1 LB TO 1 GAL WATER) -
LIME OR SODA ASH.

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Handling and Storage
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Handling and Storage Precautions:STORAGE-STORE IN COOL DRY WELL
VENTILATED AREA. MAKE CERTAIN VENT CAPS ARE ON TIGHTLY. DO NOT
DOUBLE STACK BATTERIES.

Other Precautions:KEEP TERMINALS COVERED IN PLASTIC CASE. AVOID
SHORTING BATTERIES. KEEP LIGHT
TED CIGARETTES, SPARKS, AND FLAMES
AWAY FROM CHARGING BATTERIES.

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Exposure Controls/Personal Protection
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Respiratory Protection:NOT REQUIRED UNDER NORMAL USE. USE
NIOSH-APPROVED ACID-MIST FILTER RESPIRATOR IF 1 MG/M3 TWA IS
EXCEEDED (ACID).

Ventilation:ADEQUATE GENERAL VENTILATION

Protective Gloves:RUBBER

Eye Protection:SPLASH-PROOF CHEMICAL GOGGLES

Other Protective Equipment:RUBBER APRON AND BOOTS. EYE WASH STATION AND
SAFETY SHOWER. USE ACID-PROOF
CLOTHING FOR MAJOR SPILLS.

Work Hygienic Practices:REMOVE METALLIC JEWELRY- SHOCK POTENTIAL. WASH
THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health

FORMULA CHANGED. FOR PREVIOUS FORMULATION SEE P/N A UNDER SAME NSN.

=====
Physical/Chemical Properties
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HCC:Z4

Boiling Pt:B.P. Text:NOT GIVEN

Melt/Freeze Pt:M.P/F.P Text:NOT GIVEN

Decomp Temp:Decomp Text:NOT GIVEN

Vapor Pres:NOT GIVEN

Vapor Density:NOT GIVEN

Spec Gravity:> WATER

Evaporation Rate & Re

ference:NOT DETERMINED

Solubility in Water:SULFURIC ACID SOLUBL

Appearance and Odor:AN OBJECT CONSISTING OF A TRANSPARENT TO OPAQUE
CASE AND SEALED COVER.

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

Stability Indicator/Materials to Avoid:YES

POTASSIUM, CARBIDES, SULFIDES, PEROXIDES, COMBUSTIBLE MATERIALS, STRONG
REDUCING AGENTS, MOST METALS, CHLORATES

Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES, OVERCHARGING,
SMOKING, SPARKS

Hazardous Decomposition P

roducts:OXIDES OF LEAD AND SULFUR, HYDROGEN,
SULFUR DIOXIDE, SULFUR TRIOXIDE.

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

Waste Disposal Methods:NEUTRALIZED SPILLS MAY BE FLUSHED TO SANITARY
SEWER WITH WATER. RCRA WASTE DISPOSAL NO D002, D008. DISPOSE OF IN
ACCORDANCE WITH FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS
FOR ACID OR LEAD SCR AP.

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