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JOHNSON CONTROLS INC GLOBE BATTERY DIV -- LEAD ACID BATTERY; ELECTRIC STORAGE BATTERY -- 6140-01-433-1883
========== Product Identification ==========

Product ID:LEAD ACID BATTERY; ELECTRIC STORAGE BATTERY
MSDS Date:03/01/1999
FSC:6140
NIIN:01-433-1883
Status Code:A
MSDS Number: CLMFT
=== Responsible Party ===
Company Name:JOHNSON CONTROLS INC GLOBE BATTERY DIV
Address:5757 N GREEN BAY AVE
Box:591
City:MIL
WAUKEE
State:WI
ZIP:53201
Country:US
Info Phone Num:800-365-7777
Emergency Phone Num:(800) 424-9300
Resp. Party Other MSDS Num.:L8
Chemtrec Ind/Phone:(800)424-9300
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
Contract Num:SP0411-01-W-E682
CAGE:0FGN2
Company Name:JOHNSON CONTROLS INC GLOBE BATTERY DIV
Address:5757 N GREEN BAY AVE
Box:591
City:MILWAUKEE
State:WI
ZIP:5320

1
Country:US
Phone:800-365-7777
CAGE:25244

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

Ingred Name:LEAD
CAS:7439-92-1
RTECS #:OF7525000
= Wt:34.
OSHA PEL:50 UG/M3
ACGIH TLV:0.15 MG/M3
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:LEAD DIOXIDE
CAS:1309-60-0
RTECS #:OG0700000
= Wt:31.
OSHA PEL:50 UG/M3
ACGIH TLV:150 UG/M3

Ingred Name:LEAD SULFATE
CAS:7446-14-2
RTECS #:OG4375000
< Wt:1.
OSHA PEL:SEE 1910.1025
ACGIH TLV:0.15 MG/M3
EPA Rpt Qty:100 LBS
DOT Rpt Qty:100 L
BS

Ingred Name:SULFURIC ACID (34%) (BATTERY ELECTROLYTE-ACID)
CAS:7664-93-9
RTECS #:WS5600000
= Wt:34.
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3
ACGIH STEL:3 MG/M3
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

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

LD50 LC50 Mixture:NO DATA PROVIDED BY MANUFACTURER
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:UNKNOWN IARC:YES
Health Hazards Acute and Chronic:INHALATION: ACID MIST GENERATED DURING

BATTERY FORMATION MAY CAUSE RESPIRATORY IRRITATION. SPILLAGE OF ACID FROM BATTERIES IN CONFINED AREAS MAY ALSO LEAD TO EXPOSURE TO SULFURIC ACID MIST. SKIN: BATT ERY ELECTROLYTE (ACID) MAY CAUSE IRRITATIVE CONTACT DERMATITIS. SKIN ABSORPTION: SKIN ABSORPTION IS NOT A SIGNIFICANT ROUTE OF ENTRY. EYE: BATTERY ELECTROLYTE (ACID) WILL IRRITATE THE EYES UPON CONTAC T. INGESTION: HANDS CONTAMINATED BY CONTACT WITH INTERNAL COMPONENTS OF A BATTERY CAN CAUSE INGESTION OF LEAD/LEAD COMPOUNDS. HANDS SHOULD BE WASHED PRIOR TO EATING, DRINKING, OR SMOKING.

Explanation of Carcinogenicity:THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) HAS CLASSIFIED "STRONG INORGANIC ACID MIST CONTAINING SULFURIC ACID" AS A CATEGORY 1 CARCINOGEN, A SUBSTANCE THAT IS CARCINOGENIC TO HUMANS. THE ACGIH HAS CLASSIFEID "STRONG INORGANIC ACID MIST CONTAINING SULFURIC ACID" AS AN A2 CARCINOGEN (SUSPECTED HUMAN CARCINOGEN). THESE CLASSIFICATIONS DO NOT APPLY

Effects of Overexposure:ACUTE: ACUTE EFFECTS OF OVEREXPOSURE TO LEAD COMPOUNDS ARE GI (GASTROINTESTINAL) UPSET, LOSS OF APPETITE, DIARRHEA. CONSTIPATION WITH CRAMPING, DIFFICULTY IN SLEEPING, AND FATIGUE. EXPOSURE AND/OR CON TACT WITH BATTERY ELECTROLYTE (ACID) MAY LEAD TO ACUTE IRRITATION OF THE SKIN, CORNEAL DAMAGE OF THE EYES, AND IRRITATION OF THE MUCOUS MEMBRANES OF THE EYES AND UPPER RESPIRATORY SYSTEM, INCLUDING LU NGS. CHRONIC: LEAD AND ITS COMPOUNDS MAY CAUSE CHRONIC ANEMIA, DAMAGE TO THE KIDNEYS AND NERVOUS SYSTEM. LEAD MAY ALSO CAUSE REPRODUCTIVE SYSTEM DAMAGE AND CAN AFFECT DEVELOPING FETUSES IN PREGNANT WO MEN.

Medical Cond Aggravated by Exposure:INORGANIC LEAD & ITS COMPOUNDS CAN AGGRAVATE CHRONIC FORMS OF KIDNEY, LIVER & NEUROLOGIC DISEASES. CONTACT OF BATTERY ELECTROLYTE (ACID) WITH THE SKIN MAY AGGRAVATE SKIN DISEASES SUCH AS ECZEMA & CONTAC

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

First Aid:

INHALATION: REMOVE FROM EXPOSURE AND CONSULT A PHYSICIAN IF ANY OF THE ACUTE EFFECTS LISTED ABOVE DEVELOP. SKIN: WASH THOROUGHLY WITH SOAP AND WATER. IF ACID IS SPLASHED ON CLOTHING, REMOVE AND DISCAR D. IF ACID IS SPLASHED IN SHOES, REMOVE THEM IMMEDIATELY AND DISCARD. ACID CANNOT BE REMOVED FROM LEATHER. EYES: IMMEDIATELY RINSE WITH COOL RUNNING WATER FOR AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTI ON AFTER RINSING. INGESTION: LEAD/LEAD COMPOUNDS:CONSULT A PHYSICIAN.

BATTERY ELECTROLYTE (ACID): DO NOT
INDUCE VOMITING. REFER TO A PHYSICIAN IMMEDIATELY.

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

Flash Point:=-259.C, -434.2F
HYDROGEN
Autoignition Temp:=580.C, 1076.F
Autoignition Temp Text:H2
Lower Limits:4.1
Upper Limits:74.2
Extinguishing Media:DRY CHEMICAL, FOAM, OR CO2.
Fire Fighting Procedures:USE POSITIVE PRESSURE, SELF-CONTAINED
BREATHING APPARATUS.
Unusual Fire/Explosion Hazard:HYDROGEN AND OXYGEN GASES ARE PRODUCED IN

THE CELLS DURING NORMAL BATTERY OPERATIONS. HYDROGEN IS FLAMMABLE
AND OXYGEN SUPPORTS COMBUSTION. THESE GASES ENTER THE AIR THROUGH
THE VENT CAPS. TO AVOID TH E CHANCE OF A FIRE OR EXPLOSION, KEEP
SPARKS AND OTHER SOURCES OF IGNITION AWAY FROM THE BATTERY.

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

Spill Release Procedures:REMOVE COMBUSTIBLE MATERIALS & ALL SOURCES OF
IGNITION. CONTAIN SPILL BY DIKING WITH SODA ASH (SODIUM CARBONATE)
OR QUICKLI
ME (CALCIUM OXIDE). COVER SPILL WITH EITHER CHEMICAL, MIX
WELL. MAKE CERTAIN THE MIXTURE IS NEUTRAL, THEN COLLECT RESIDUE &
PLACE IN A DRUM OR OTHER SUITABLE CONTAINER. DISPOSE OF AS A
HAZARDOUS WASTE. WEAR ACID-RESISTANT BOOTS, CHEMICAL FACE SHIELD,
CHEMICAL SPLASH GOGGLES,
Neutralizing Agent:DLA-HMIS: FOR ELECTROLYTE-SODA ASH.

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

Handling and Storage Precautions:MAKE CERTAIN VENT CAPS ARE ON TIGHTLY.
PLACE A
MINIMUM OF TWO LAYERS OF CORRUGATED CARDBOARD BETWEEN
LAYERS OF BATTERIES. WHEN STACKING IN TRAILER, STACK NO MORE THAN
THREE LAYERS HIGH. USE A BATTERY CARRIER TO LIFT A BATTERY OR
PLACE HANDS AT OPPOSITE CORNERS TO AVOID SPILLING ACID THROUGH THE
VENT
Other Precautions:AN EYEWASH FOUNTAIN AND SAFETY SHOWER SHOULD BE
LOCATED IN OR NEAR THE PRODUCTION OR STORAGE AREAS FOR LEAD/LEAD
ACID BATTERIES. SUCH STORAGE AREAS SHOULD BE EQUIPPED WITH A
CONTAINMENT FACILITY WHI

CH CAPTURES ACID SPILLS SO THAT THEY MAY
BE NEUTRALIZED, COLLECTED, AND DISPOSED OF PROPERLY.

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

Respiratory Protection:NONE REQUIRED UNDER NORMAL HANDLING CONDITIONS.
DURING BATTERY FORMATION (HIGH-RATE CHARGE CONDITION), ACID MIST
CAN GE GENERATED, WHICH MAY CAUSE RESPIRATORY IRRITATION. IF
IRRITATION OCCURS, WEAR A RESPIRATOR SUITABLE FOR PROTECTION
AGAINST ACID MIST.
Ventilation:STORE LEAD ACID BATTERIES
WITH ADEQUATE VENTILATION. ROOM
VENTILATION IS REQUIRED FOR BATTERIES UTILIZED FOR STANDBY POWER
GENERATION. NEVER RECHARGE BATTERIES
Protective Gloves:VINYL-COATED, PVC, GAUNTLET-TYPE GLOVES WITH ROUGH
FINISH.
Eye Protection:CHEMICAL SPLASH GOGGLES ARE PREFERRED. ALSO ACCEPTABLE
ARE "VISOR -GOGS" OR A
Other Protective Equipment:SAFETY SHOES WORN WITH RUBBER OR NEOPRENE
BOOTS OR STEEL-TOED RUBBER OR NEOPRENE BOOTS WORN OVER SOCKS. PLACE
PANTS LEGS OVER BOOTS TO KEEP ACID
OUT OF BOOTS. ALL FOOTWEAR MUST
MEET REQUIREMENTS OF ANSI
Work Hygienic Practices:WASH HANDS THOROUGHLY BEFORE EATING, DRINKING,
OR SMOKING AFTER HANDLING BATTERIES.
Supplemental Safety and Health
NEVER RECHARGE BATTERIES IN AN UNVENTILATED, ENCLOSED SPACE. MAKE
CERTAIN VENT CAPS ARE ON TIGHTLY. PLACE A MINIMUM OF TWO LAYERS OF
CORRUGATED CARDBOARD BETWEEN LAYERS OF BATTERIES. WHEN STACKING IN
TRAILER, STACK NO MORE THAN THREE LAYERS HIGH.USE A BATTERY CARRIER
TO LIFT BA
TTERY OR PLACE HANDS AT OPPOSITE CORNERS

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

HCC:C1
Boiling Pt:=1755.C, 3191.F
B.P. Text:LEAD BATT. ELECTROLYTE
Melt/Freeze Pt:=327.4C, 621.3F
M.P/F.P Text:LEAD
Vapor Pres:11.7 BATTERY ELECTROLYTE
Vapor Density:3.4
Spec Gravity:1.210-1.300 BATTERY ELECT
Evaporation Rate & Reference:NOT DETERMINED
Solubility in Water:LEAD AND LEAD DIOXIDE ARE
Appearance and Odor:SOLID;LIQUID;BATTERY ELECTROLYTE (ACID) IS A CLEAR
TO CLOUDY

LIQUID
Percent Volatiles by Volume:NOT DETERMIN

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

Stability Indicator/Materials to Avoid:YES
LEAD/LEAD COMPOUNDS: POTASSIUM ,CARBIDES, SULFIDES, PEROXIDES, PHOSPHORUS, SULFUR. BATTERY ELECTROLYTE (ACID): COMBUSTIBLE MATERIALS, STRONG REDUCING AGENTS, MOST METALS, CARBIDES, ORGANIC MATERIALS, CHLORATES, NITRATES, PI
Stability Condition to Avoid:SPARKS AND OTHER SOURCES OF IGNITION MAY IGNITE HYDROGEN GAS.
Hazardou
s Decomposition Products:LEAD/LEAD COMPOUNDS: OXIDES OF LEAD AND SULFUR. BATTERY ELECTROLYTE (ACID): HYDROGEN, SULFUR DIOXIDE, SULFUR TRIOXIDE.
Conditions to Avoid Polymerization:WILL NOT OCCUR. AVOID HIGH TEMPERATURE. BATTERY ELECTROLYTE (ACID) WILL REACT WITH WATER TO PRODUCE HEAT.

========== Toxicological Information ==========

Toxicological Information:IARC HAS CLASSIFIED "STRONG INORGANIC ACID MIST CONTAINING SULFURIC ACID" AS A CATEGORY 1 CARCINOGEN
, A
SUBSTANCE THAT IS CARCINOGENIC TO HUMANS. THE ACGIH HAS CLASSIFIED "STRONG INORGANIC ACID MIST C ONTAINING SULFURIC ACID" AS AN A2 CARCINOGEN (SUSPECTED HUMAN CARCINOGEN). THESE CLASSIFICATIONS DO NOT APPLY TO LIQUID FORMS OF SULFURIC ACID OR SULFURIC ACID SOLUTIONS FOUND IN BATTERIES. IARC HAS C LASSIFIED LEAD AS AN A3 CARCINOGEN (ANIMAL CARCINOGEN).

========== Ecological Information ==========

Ecological:NO DATA PROVIDED BY MANUFACTURER

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

Waste Disposal Methods:BATTERY ELECTROLYTE (ACID): NEUTRALIZE AS ABOVE FOR A SPILL, COLLECT RESIDUE, AND PLACE IN A DRUM OR SUITABLE CONTAINER. DISPOSE OF AS A HAZARDOUS WASTE. DO NOT FLUSH LEAD-CONTAMINATED ACID INTO SEWER . BATTERIES: SEND TO LEAD SMELTER FOR RECLAMATION FOLLOWING APPLICABLE FEDERAL, STATE, AND LOCAL REG ULATIONS.

========== MSDS Transport Information ==========

Transpo

rt Information:DOT, IATA, IMO DESCRIPTIONS: BATTERY, WET, FILLED
WITH ACID, UN2794, CLASS 8.

========== Regulatory Information ==========

SARA Title III Information:THE CONTENTS OF THIS PRODUCT ARE TOXIC
CHEMICALS THAT ARE SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION
302 AND SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY
RIGHT-TO-KNOW ACT OF 1986 (40 CFR 355 AND 372).
Federal Regulatory Information:NO DATA PROVIDED BY MANUFACTURER
State Regulat
ory Information:NO DATA PROVIDED BY MANUFACTURER

========== Other Information ==========

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sional advice to verify and
assume responsibility for the suitability of this information to their
particular situation.