SEALED LEAD ACID BATTERY MATERIAL SAFETY DATA SHEET

LEAD-ACID BATTERY - BATTERY ASSEMBLY, LEAD ACID, SEALED, WET CHARGED
SEALED LEAD-ACID BATTERY - BATTERY ASSEMBLY, LEAD ACID, SEALED, WET CHARGED
MATERIAL SAFETY DATA SHEET
NSN: 6135012724048
Manufacturer's CAGE: 77280
Part No. Indicator: A
Part Number/Trade Name: SEALED LEAD/ACID BATTERY

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General Information

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Item Name: BATTERY ASSEMBLY, LEAD ACID, SEALED, WET CHARGED
Company's Name: INTERSTATE ALL BATTERY CENTER
Company's Street: 1700 DIXON STREET
Company's City: DES MOINES
Company's State: IA
Company's Country: US *
Company's Zip Code: 50316
Company's Emergency Ph #: 1-800-424-9300
Company's Info Ph #: 1-800-424-9300/1-800-203-6549
Safety Data Action Code: C
Record No. For Safety Entry: 001
Tot Safety Entries This Stk#: 001
Status: SEU
Date MSDS Prepared: MAY 10, 2005
Safety Data Review Date: MAY 10, 2005
MSDS Serial Number: BMTZY
Specification Number: NONE
Spec Type, Grade, Class: NONE
Hazard Characteristic Code: N1
Unit Of Issue: EA
Type Of Container: BATTERY CASE
Net Unit Weight: UNKNOWN

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Ingredients/Identity Information

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Proprietary: NO
Ingredient: SULFURIC ACID (SARA III)
Ingredient Sequence Number: 01
Percent: 32-40
NIOSH (RTECS) Number: WS5600000
CAS Number: 7664-93-9
OSHA PEL: 1 MG/M3
ACGIH TLV: 1 MG/M3; 9192
Other Recommended Limit: NONE SPECIFIED

Proprietary: NO
Ingredient: LEAD (BATTERY INTERNALS OF LEAD) (SARA III)
Ingredient Sequence Number: 02
Percent: UNKNOWN
NIOSH (RTECS) Number: OF7525000
CAS Number: 7439-92-1
OSHA PEL: 0.05 MG/M3;1910.1025
ACGIH TLV: 0.15 MG/M3;DUST 9192
Other Recommended Limit: NONE SPECIFIED

Physical/Chemical Characteristics

Appearance And Odor: COLORLESS, TRANSPARENT, NO ODOR (NOTE DESCRIPTION OF ELECTROLYTE NOT BATTERY)
Boiling Point: 203F,95C
Melting Point: UNKNOWN
Vapor Pressure (MM Hg/70 F): 10 MM
Vapor Density (Air=1): 1
Specific Gravity: 1.27
Decomposition Temperature: UNKNOWN
Evaporation Rate And Ref: UNKNOWN
Solubility In Water: 100%
Corrosion Rate (IPY): UNKNOWN

Fire and Explosion Hazard Data

Flash Point: NON-FLAMMABLE
Lower Explosive Limit: UNKNOWN
Upper Explosive Limit: UNKNOWN
Extinguishing Media: USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL.
Special Fire Fighting Proc: WEAR ACID RESISTANT PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.
Unusual Fire And Expl Hazrds: WHEN BEING CHARGED THIS BATTERY GENERATES HYDROGEN GAS WHICH MAY FORM EXPLOSIVE MIXTURES WITH AIR. ELECTROLYTE REACTS WITH WATER OR WITH METALS TO RELEASE H*2.

Reactivity Data

Stability: YES
Cond To Avoid (Stability): RUPTURE OF BATTERY CASE.
Materials To Avoid: COMBUSTIBLES, ORGANIC MATERIALS, STRONG REDUCING AGENTS, METALS, CYANIDES.
Hazardous Decomp Products: CHARGING, ESPECIALLY OVERCHARGING RELEASES HYDROGEN, A FLAMMABLE EXPLOSIVE GAS.
Hazardous Poly Occur: NO
Conditions To Avoid (Poly): NOT RELEVANT

Health Hazard Data

LD50-LC50 Mixture: ORAL RAT LD50 IS NOT KNOWN
Route Of Entry - Inhalation: NO
Route Of Entry - Skin: NO
Route Of Entry - Ingestion: NO
Health Haz Acute And Chronic: PRODUCT CONTAINS LEAD AND SULFURIC ACID. SULFURIC ACID IS A CORROSIVE CAUSING BURNS TO BODY TISSUES. LEAD IS TOXIC AND SOME LEAD COMPOUNDS ARE LISTED AS CARCINOGENIC. CONTACT WITH EITHER IS HIGHLY UNLIKELY TO OCCUR UNLESS THE CASE IS BROKEN OR SPILLED, THEN ONLY CONTACT WITH THE ACID IS LIKELY.
Carcinogenicity - NTP: YES
Carcinogenicity - IARC: YES
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: LEAD COMPOUNDS ARE LISTED AS CARCINOGENIC IN ANIMALS AND POSSILBY IN HUMANS.

Signs/Symptoms Of Overexp: CONTACT WITH SULFURIC ACID IS THE MOST LIKELY EXPOSURE, PRODUCING IRRITATION OR BURNS TO THE BODY TISSUE CONTACTED.
Med Cond Aggravated By Exp: NONE
Emergency/First Aid Proc: FIRST AID IS GIVEN FOR SULFURIC ACID CONTACT. EYE: FLUSH W/WATER 15 MIN, HOLD LIDS OPEN. SKIN: WASH WITH SOAP & WATER. REMOVE CONTAMINATED CLOTHING AND LAUNDER BEFORE REUSE. INHALED: REMOVE TO FRESH AIR. INGESTED: DO NOT INDUCE VOMITING. GIVE 2 LARGE GLASSES OF MILK OR WATER AND GET IMMEDIATE MEDICAL CARE. GIVE NOTHING BY MOUTH IF UNCONSCIOUS. IF IRRITATION PERSISTS OR IS SEVERE, SEE A DOCTOR.

Precautions for Safe Handling and Use

Steps If Matl Released/Spill: IF ACID IS SPILLED, NEUTRALIZE. PLACE REMAINDER IN AN ACID RESISTANT CONTAINER FOR RECYCLE OF THE LEAD.
Neutralizing Agent: SODIUM BICARBONATE OR LIME
Waste Disposal Method: DISPOSE I/A/W ALL FEDERAL, STATE AND LOCAL REGULATIONS. HMIS SUGGESTS THAT DISPOSAL MAY BE DONE BY FLUSHING NEUTRALIZED ACID TO DRAIN AND SENDING REMAINDER TO LEAD RECLAIMER. DO NOT INCINERATE!!!
Precautions-Handling/Storing: STORE IN COOL, DRY AREA. PROTECT FROM PHYSICAL DAMAGE. PROTECT TERMINALS FROM SHORT CIRCUITS.
Other Precautions: READ MANUFACTURERS LITERATURE AND FOLLOW INSTRUCTIONS.

Control Measures

Respiratory Protection: RESPIRATOR WILL NOT NORMALLY BE NECESSARY. USE NIOSH/MSHA APPROVED RESPIRATOR FOR ACID DUST/MIST IF EXPOSURE IS ABOVE THE TLV/PEL. SEE 29 CFR 1910.134 FOR REGULATIONS PERTAINING TO RESPIRATOR USE.
Ventilation: NOT NORMALLY REQUIRED. USE LOCAL EXHAUST DURING CHARGING CYCLES TO AVOID AN EXPLOSIVE BUILD UP OF HYDROGEN GAS. *
Protective Gloves: NONE (RUBBER IF ACID IS LEAKING)
Eye Protection: SAFETY GLASSES/SPLASH GOGGLES FOR LIQUID
Other Protective Equipment: NORMAL WORK CLOTHING. PROTECT WITH IMPERVIOUS APRON AND/OR BOOTS WHEN HANDLING ACID OR IF ACID IS LEAKING.
Work Hygienic Practices: USE GOOD INDUSTRIAL HYGIENE PRACTICE. AVOID ALL CONTACT WITH ACID OR INTERNALS OF THE BATTERY.
Suppl. Safety & Health Data: NON-SPILLABLE BATTERY, PER CTDF.

Transportation Data

Trans Data Review Date: 92147
DOT PSN Code: BQR
DOT Symbol: AW
DOT Proper Shipping Name: BATTERIES, WET, NON-SPILLABLE
DOT Class: 8
DOT ID Number: UN2800
DOT Pack Group: III
DOT Label: CORROSIVE
IMO PSN Code: BWG
IMO Proper Shipping Name: BATTERIES, WET, NON-SPILLABLE
IMO Regulations Page Number: 8121
IMO UN Number: 2800
IMO UN Class: 8*

IMO Subsidiary Risk Label: -
IATA PSN Code: DAB
IATA UN ID Number: 2800
IATA Proper Shipping Name: BATTERIES, WET, NON-SPILLABLE
IATA UN Class: 8
IATA Label: CORROSIVE
AFI PSN Code: DAB
AFI Prop. Shipping Name: BATTERIES, WET, NON-SPILLABLE
AFI Class: 8
AFI ID Number: UN2800
AFI Pack Group: III
AFI Basic Pac Ref: 12-8
N.O.S. Shipping Name: SULFURIC ACID
Additional Trans Data: NOTE THAT DOT IS NOT REGULATED BUT BATTERY MUST BE PACKED TO PREVENT TERMINALS FROM SHORTING. AFR 71-4 REQUIRES THE SHIPPING NAME 'BATTERY, WET, NON-SPILLABLE' WITH 'CORROSIVE' LABELS.

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Disposal Data

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Label Data

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Label Required: YES
Technical Review Date: 22MAY92
MFR Label Number: NONE
Label Status: F
Common Name: LEAD/ACID BATTERY
Signal Word: DANGER!
Acute Health Hazard-Severe: X
Contact Hazard-Severe: X
Fire Hazard-None: X
Reactivity Hazard-None: X
Special Hazard Precautions: FIRST AID: IN CASE OF CONTACT, IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER. REMOVE CONTAMINATED CLOTHING. GET MEDICAL ATTENTION. WASH CLOTHING BEFORE REUSE. PRODUCT CONTAINS LEAD AND SULFURIC
ACID. SULFURIC ACID IS A CORROSIVE CAUSING BURNS TO BODY TISSUES. LEAD IS TOXIC AND SOME LEAD COMPOUNDS ARE LISTED AS CARCINOGENIC. CONTACT WITH EITHER IS HIGHLY UNLIKELY TO OCCUR UNLESS THE CASE IS BROKEN OR SPILLED, THEN ONLY CONTACT WITH THE ACID IS LIKELY. WHEN BEING CHARGED THIS BATTERY GENERATES HYDROGEN GAS WHICH MAY FORM EXPLOSIVE MIXTURES WITH AIR. ELECTROLYTE REACTS WITH WATER OR WITH METALS TO RELEASE H*2.
Protect Eye: Y
Protect Skin: Y
Label Name: INTERSTATE ALL BATTERY CENTER
Label Street: 1700 DIXON STREET
Label City: DES MOINES
Label State: IA
Label Zip Code: 50316
Label Country: US
Label Emergency Number: 1-800-424-9300