

RAMCAR BATTERIES INC -- LEAD ACID ELECTRICAL STORAGE BATTERY -- 6140-00-057-2553  
===== Product Identification =====

Product ID:LEAD ACID ELECTRICAL STORAGE BATTERY

MSDS Date:05/01/1990

FSC:6140

NIIN:00-057-2553

MSDS Number: BQQKH

=== Responsible Party ===

Company Name:RAMCAR BATTERIES INC

Address:2700 CARRIER AVE

City:COMMERCE

State:CA

ZIP:90040

Country:US

Info Phone Num:213-726-1212

Emergency Ph

one Num:213-726-1212

CAGE:0W3X1

=== Contractor Identification ===

Company Name:RAMCAR BATTERIES INC

Address:2700 CARRIER AVE

Box:City:COMMERCE

State:CA

ZIP:90040

Country:US

Phone:213-726-1212

CAGE:0W3X1

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

Ingred Name:SULFURIC ACID (SARA III)

CAS:7664-93-9

RTECS #:WS5600000

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

===== Hazards Identifica

tion =====

LD50 LC50 Mixture:LD50 (ORAL RAT) IS 2140 MG/KG

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ELECTROLYTE-INHALATION OF

VAPORS:SEVERE IRRITATION OR BURNS OF THE RESPIRATORY SYSTEM,  
PULMONARY EDEMA, OR LUNG INFLAMMATION. EYE:SEVERE DAMAGE AND  
POSSIBLE BLINDNESS. SKIN: BURNS AND POSSIBLE DEEP UL CERATION.  
INGESTION:SEVERE BURNS TO MOUTH, THROAT, AND STOMACH.

Explanation of Carcinogenicity:THIS CHEMICAL IS NOT LISTED BY IARC,  
NTP, OR OSHA AS A CARCINOGEN.

Effects of Overexposure:SEVERE IRRITATION OR BURNS TO EYES, NOSE AND  
THROAT. PULMONARY EDEMA, BRONICAL EMPHYSEMA, CONJUNCTIVITIS,  
STOMATITIS, DENTAL EROSION, NAUSEA AND VOMITING.

Medical Cond Aggravated by Exposure:PERSONS WITH A HISTORY OF AILMENTS  
OR WITH A PRE-EXISTING DISEASE INVOLVING THE RESPIRATORY TRACT MAY  
BE AT INCREASED RISK FROM EXPOSURE.

===== Fi

rst Aid Measures =====

First Aid:INHALATION:REMOVE TO FRESH AIR. RESUSCITATE IF NOT BREATHING.  
GET MEDICAL ATTENTION. EYES:IMMEDIATELY FLUSH WITH PLENTY OF WATER  
FOR 15 MINUTES HOLDING EYELIDS OPEN. GET PROMPT MEDICAL ATTENTION.  
SKIN :REMOVE CONTAMINATED CLOTHING. WASH WITHPLENTY OF WATER FOR 15  
MINUTES. GET MEDICAL ADVICE. INGESTION:DO NOT INDUCE VOMITING. GIVE  
NOTHING BY MOUTH IF UNCONSCIOUS. GET IMMEDIATE MEDICAL ATTENTION.

===== Fire

Fighting Measures =====

Flash Point:NON-FLAMMABLE

Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY  
CHEMICAL.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A  
FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED  
CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:COMBUSTION OR HEAT OF FIRE MAY PRODUCE  
HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS.

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

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Spill Release Procedures:WEAR FULL PROTECTIVE EQUIPMENT. STOP LEAK IF YOU CAN DO SO WITHOUT RISK. DIKE TO RETAIN RUNOFF. NEUTRALIZE SMALL AMOUNTS WITH SODA ASH OR LIME. MAKE SLURRY AND SHOVEL INTO DISPOSAL DRUM.

Neutralizing Agent:SODIUM BICARBONATE OR A SODA ASH/SLAKED LIME MIXTURE (50-50)

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

Handling and Storage Precautions:STORE AWAY FROM HEAT. ISOLATE FROM INCOMPATIBLE MATERIALS. ADD ACID TO WATER SLOWLY TO PREVENT SPLATTERING.

Other Precautions:DO NOT OVERCHARGE BATTERIES. KEEP AWAY FROM FLAMES WHILE CHARGING.

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

Respiratory Protection:NONE REQUIRED WHERE ADEQUATE VENTILATION CONDITIONS EXIST. IF AIRBORNE CONCENTRATION EXCEEDS TLV, A NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS IS RECOMMENDED.

Ventilation:GENERAL

Protective Gloves:POLYVINYL CHLORIDE GLOVES

Eye Protection:CHEMICAL SPLASH GOGGLES AND FACE SHIELD

Other Protective Equipment:EYE WASH STATION AND SAFETY SHOWER. INDUSTRIAL-TYPE IMPERVIOUS WORK CLOTHING, BOOTS AND APRON AS REQUIRED.

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

DO NOT GET ON SKIN OR IN EYES. WASH HANDS AFTER HANDLING BATTERIES. MFR LISTS ELECTROLYTE AS THE ONLY HAZARDOUS INGREDIENT.

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

HCC:C1

Boiling Pt:=110.C, 230.F

Vapor Density:3.4

Spec Gravity:1.24-1.28

pH:2.0

Solubility in Water:COMPLETE

Appearance and Odor:CLEAR WATER-LIKE LIQUID, ODORLESS.

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS

Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES AND OTHER SOURCES OF IGNITION

Hazardous Decomposition Products:OXIDES OF SULFUR AND HYDROGEN

===== Dispos

al Considerations =====

Waste Disposal Methods:DISPOSAL SHOULD BE MADE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS. BATTERIES ARE RECYCLABLE, SEND TO FACTORY.

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