

OPTIMA BATTERIES INC -- SEALED LEAD ACID BATTERY,800 U -- 6140-01-374-2243

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

Product ID:SEALED LEAD ACID BATTERY,800 U

MSDS Date:06/29/1994

FSC:6140

NIIN:01-374-2243

MSDS Number: BYCCP

=== Responsible Party ===

Company Name:OPTIMA BATTERIES INC

Address:5 E MISSISSIPPI AVE

City:DENVER

State:CO

ZIP:80210

Country:US

Info Phone Num:303-744-5360

Emergency Phone Num:303

-744-5360

CAGE:0UJ55

=== Contractor Identification ===

Company Name:BATTERIES INC/AFFIL OF AUTOMOTIVE NORTHE

Box:UNKNOW

CAGE:0V9P9

Company Name:OPTIMA BATTERIES INC

Address:17500 E 22ND AVENUE

Box:City:AURORA

State:CO

ZIP:80011

Country:US

Phone:303-448-8899 OR 800-292-4359

CAGE:0UJ55

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

Ingred Name:LEAD (SARA 313) (CERCLA)

CAS:7439-92-1

RTECS #:OF7525000

Other REC Limits:NONE RECOMMENDED

OSHA PEL:SEE 1910.1025

ACGIH TLV:0.15MG/M

3 DUST; 9495
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:LEAD OXIDE, (RED LEAD OXIDE)/LEAD TETRAOXIDE
CAS:1314-41-6
RTECS #:OG5425000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:SEE 1910.1025
ACGIH TLV:0.15 MG/M3

Ingred Name:LEADY LEAD MONOXIDE
CAS:68411-78-9
Other REC Limits:NONE RECOMMENDED

Ingred Name:SULFURIC ACID (SARA 302/313) (CERCLA)/ELECTROLYTE
CAS:7664-93-9
RTECS #:WS5600000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3/3 STEL; 9495
EPA Rpt Qty:1000 LBS
DOT R
pt Qty:1000 LBS

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

LD50 LC50 Mixture:TLV FOR SULFURIC ACID IS 1 MG/M3.
Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO
Health Hazards Acute and Chronic:NONE. IF BATTERY IS LEAKING/IN FIRE:
TARGET ORGANS:EYES, SKIN, RESPIRATORY TRACT. ACUTE- LEAD MAY CAUSE
GI UPSET, DIARRHEA, CRAMPING & FATIGUE. ELECTROLYTE MAY CAUSE EYE,
SKIN & RESPIRATORY TRACT IRRITATION,
BURNS. CHRONIC- LEAD MAY
CAUSE ANEMIA, KIDNEY & CNS DAMAGE. ACID CAN CAUSE BRONCHITIS,
EROSION OF TOOTH ENAMEL.
Explanation of Carcinogenicity:CONTAINS LEAD.
Effects of Overexposure:NONE. IF BATTERY IS LEAKING, BROKEN OR IN FIRE:
GI UPSET, LOSS OF APPETITE, DIARRHEA, CONSTIPATION, CRAMPING, LACK
OF SLEEP, FATIGUE, EYE, SKIN & RESPIRATORY TRACT IRRITATION, BURNS,
CORNEAL & LUNG DAMAGE
Medical Cond Aggravated by Exposure:IF LEAKING:INORGANIC LEAD & ITS
COMPOUNDS CAN AGGRA

VATE CHRONIC FORMS OF KIDNEY, LIVER & NEUROLOGIC DISEASES. CONTACT OF SULFURIC ACID WITH SKIN MAY AGGRAVATE SKIN DISEASES SUCH AS ECZEMA & DERMATITIS

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

First Aid:NONE NEEDED. IF BATTERY LEAKING: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 V OMITING. IF CONSCIOUS, DRINK LARGE AMOUNT OF MILK OR WATER.

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

Flash Point:NONE

Extinguishing Media:MULTI-PURPOSE DRY CHEMICAL OR MULTI-PURPOSE CO2. WATER SPRAY MAY BE USED TO COOL FIRE-EXPOSED BATTERIES.

Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE.

Unusual Fire/Explosion Hazard:HYDROGEN GAS MAY BE PRODUCED AND MAY EXPLODE IF IGNITED. SULFURIC ACID MISTS MAY BE FORMED.

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

Spill Release Procedures:THIS PRODUCT IS A SEALED BATTERY. IN CASE OF AN ACCIDENT, THE ABSORBENT SEPARATOR MAY BE SQUEEZED CAUSING THE RELEASE OF A SMALL AMOUNT OF ACID ELECTROLYTE. WEAR PROTECTIVE GLOVES. NEUTRALIZE THE ACID ELECTROLYTE WITH BAKING SODA AND FLUSHWITH WATER

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

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

Handling and Storage Precautions:STORE AT AMBIENT TEMPERATURE. KEEP AWAY FROM FLAMES OR FIRE. DO NOT CARRY BATTERY BY TERMINALS. DO NOT DROP BATTERY, PUNCTURE OR OPEN BATTERY CASE.

Other Precautions:AVOID SHORTING BATTERIES. DO NOT OVERCHARGE BATTERIES. KEEP LIGHTED CIGARETTES, SPARKS, AND FLAMES AWAY FROM CHARGING BATTERIES. KEEP OUT OF REACH OF CHILDREN.

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

Respirato

ry Protection:NOT REQUIRED UNDER NORMAL USE.

Ventilation:ADEQUATE GENERAL VENTILATION

Protective Gloves:RUBBER/LATEX FOR LEAKERS

Eye Protection:SPLASH-PROOF CHEMICAL GOGGLES FOR LEAKER

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

Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WASH THOROUGHLY BEFORE EATING, DRINKING/SMOKING.

Supplemental Sa
fety and Health

FORMULA CHANGED. FOR PREVIOUS FORMULATIONS, SEE PNI A OR B, SAME NSN. THE MANUFACTURER STATES THE SEALED, LEAD ACID BATTERY IS CONSIDERED AN ARTICLE AS DEFINED BY 29 CFR 1910.1200(C) OSHA HAZARD COMMU NICATION STANDARD.

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

HCC:N1

NRC/State Lic Num:NOT RELEVANT

Spec Gravity:NOT RELEVANT

Viscosity:NOT RELEVANT

Evaporation Rate & Reference:NOT RELEVANT

Solubility in Water:NOT RELEVANT

Appearance and

Odor:SEALED LEAD ACID AUTOMOTIVE BATTERY, RECTANGULAR OR SQUARE IN SHAPE - NO ODOR

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

Stability Indicator/Materials to Avoid:YES
NOT RELEVANT

Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES, OVERCHARGING, SMOKING, SPARKS, SHORTING. DO NOT PUNCTURE BATTERY CASE.

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

===== Disposal Con
siderations =====

Waste Disposal Methods:DISPOSE AS HAZARDOUS WASTE. OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS FOR ACID OR LEAD SCRAP. SEND BATTERIES TO LEAD SMELTER FOR RECLAMATION FOLLOWING APPLICABLE FEDERAL, STATE AN D LOCAL REGULATIONS.

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever

r,
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.