

OPTIMA BATTERIES INC -- 800S SEALED LEAD ACID BATTERY,AUTOMOTIVE BATTERY --  
6140-01-378-8232

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

Product ID:800S SEALED LEAD ACID BATTERY,AUTOMOTIVE BATTERY

MSDS Date:06/29/1994

FSC:6140

NIIN:01-378-8232

MSDS Number: CFKLB

=== Responsible Party ===

Company Name:OPTIMA BATTERIES INC

Address:5 E MISSISSIPPI AVE

City:DENVER

State:CO

ZIP:80210

Country:US

Info Phone Num:303-340-7400/303-744-5360

Emergency Phone Num:303-340-7400/

CAGE:

0UJ55

=== Contractor Identification ===

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:0.05MG/M3, A3; 9596

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

Ingred Name:LEAD OXIDE, (RED LEAD OXIDE) (LE

AD 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)  
CAS:7664-93-9  
RTECS #:WS5600000  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:1 MG/M3  
ACGIH TLV:1 MG/M3/3 STEL; 9596  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

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

LD50 LC50 Mixtu  
re:TLV NOT ESTABLISHED FOR FINIHSED PRODUCT  
Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:EXPOSURE NOT EXPECTED FOR PRODUCT  
UNDER NORMAL CONDITIONS OF USE.IN ITS MFG/SUPPLIED STATE THE  
PRODUCT IS CONSIDERED NON-HAZ.NONE EXPECTED FOR FINISHED PRODUCT  
UNDER NORMAL CONDITIONS OF USE.DONT PUNC UTURE/OPN BATT CASE.ACID  
ELECTROLYTE MAY BE RELEASED.OVERCHARGED BATT MAY RELEASE  
GASES(HYDROGEN  
& OXYGEN).  
Explanation of Carcinogenicity:PER MSDS:NTP/IARC/OSHA:NO. NA FOR  
FINISHED PRODUCT UNDER NORMAL CONDITIONS OF USE.  
Effects of Overexposure:NONE EXPECGTED FOR FINISHED PRODUCT UNDER  
NORMAL CONDITIONS OF USE.  
Medical Cond Aggravated by Exposure:NONE KNOWN FOR FINSHED PRODUCT  
UNDER NORMAL CONDITIONS OF USE.

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

First Aid:INHAL:NOT EXPECTED UNDER NORMAL CONDITIONS OF USE.IF ACID VAP  
RELEASED DUE TO OVERCHAR

GE/ABUSE REMOVE TO FRESH AIR.BREATH DIFF  
AMDIN OXY;BREATH STOP START ART RESP IMMED.SEEK MED ATTN.EYE:EXPO  
NOT EXP ECTED UNDER NORMAL CONDITIONS OF USE.IFACID FRM BROKEN BATT  
CASE ENTERS EYES FLUSH W/WATER FOR @LEAST 15MINS.IRRIT DEVELOPS  
SEEK PROMPT MED ATTN.SKIN:EXPO NOT EXPECTED UNDER NORMAL  
CONDITIONS.(SUPP)

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

Flash Point:NP  
Autoignition Temp:Autoignition Temp Text:NP  
Lower Limits:NP  
Upper Limits:NP  
Exti  
nguishing Media:MULTIPURPOSE DYR CHEMICAL OR MULTIPURPOSE CO2.  
Fire Fighting Procedures:EVACUATE AREA.SELF-CONTAINED BREATHING  
APPARATUS MUST BE WORN TO PREVENT POSSIBLE INHAL OF ACID  
MISTS,SMOKE,DECOMPO PRODUCTS IN FIRE.COOL BATT TO PREVENT RUPTUR  
Unusual Fire/Explosion Hazard:SEALED LEAD ACID BATT NOT CONSIDERED  
FLAMM BUT WILL BURN IF INVOLVED IN FIRE.REMOVE ALL IGN SOURCES.H2  
GASS MAY BE PRODUCE,MAY EXPLO IF IGN.VENTILATE AREA.

===== Accidental Release Measures

=====

Spill Release Procedures:SPILL OR LEAK CLEANUP PROCEDURES.AVOID CONTACT  
W/ACID MATERIALS.USE SODA ASH,BAKING SODA OR LIME TO NEUTRALIZE  
ACID IF RELEASED.  
Neutralizing Agent:SODA ASH, BAKING SODA OR LIME.

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

Handling and Storage Precautions:KEEP AWAY FRM FLAMES DURING/IMMED AFT  
CHARGE.NO SIGNIF HEALTH EFFECTS ASSOC W/PROD.DONT CARRY BATT BY  
TERMINALS.DONT DROP/PUNCTURE/OPN BATT CASE.  
Other Prec  
autions:AVOID PROL OVERCHARGES IN CONFINE AREA.STORE @AMBT RM  
TEMP.OPTIMA SEALED LEAD ACID BATT CONSIDERED ARTICLE AS DEF BY  
29CFR1910.1200(C) OSHA HAZ COMM.INFO ON THIS SHEET IS SUPPLIED AT  
THE CUSTOMER'S RE QUEST FOR INFO ONLY.(SUPPLEMENTAL)

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

Respiratory Protection:NOT NECESSARY UNDER NORMAL CONDITIONS OF USE FOR  
FINISHED PRODUCT.  
Ventilation:NOT NECESSARY UNDER NORMAL CONDITIONS OF USE FOR FINISHED  
PRODUC

TS.

Protective Gloves:NOT NECESSARY UNDER NOR USE CONDITIONS

Eye Protection:NOT NECESSARY UNDER NOR USE CONDITIONS

Other Protective Equipment:NONE SPECIFIED BY MANUFACTURER.

Work Hygienic Practices:NOT NECESSARY UNDER CONDITIONS UNDER NORMAL  
CONDITIONS OF USE FOR FINISHED PRODUCT.

Supplemental Safety and Health

1ST AID:IF ACID CONTACTS SKIN FLUSH W/WATER/MILD SOAP.IRRIT DEVELOPS  
SEEK MED ATTN.INGEST:NOT EXPECTED DUE TO PHYS FORM OF FINISHED  
PRODUCT.IF MATL INGESTED SEEK PROMPT MED ATT

N. OTHER PRECAUT:DONT

SUB J PRODUCT TO PN FLAME/FIRE.AVOID CONDITIONS WHICH COULD CAUSE  
ARCING BETWEEN BATT TERMINALS.USE ONLY STD CHARGE METHODS.

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

HCC:N1

Boiling Pt:B.P. Text:NA

Melt/Freeze Pt:M.P/F.P Text:NA

Decomp Temp:Decomp Text:NP

Vapor Pres:NA

Vapor Density:NA

Spec Gravity:NA

pH:NP

Viscosity:NP

Evaporation Rate & Reference:NA

Solubility in Water:NA

Appearance and Odor:NONE SPECIFIED BY MANUFACTURER.

Percent

Volatiles by Volume:NP

Corrosion Rate:NP

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

Stability Indicator/Materials to Avoid:YES

Stability Condition to Avoid:AVOID SHORTING, USE ONLY APPROVED CHARGING  
METHODS. DO NOT PUNCTURE BATTERY CASE.

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

Waste Disposal Methods:DISPO OF IAW ALL LOC/STATE/FED/REGS.MFG/SUPPLIED  
AREA PROD CONSIDERED NON-HAZ.BATT CRUSHED IN COLLISION/SIMILAR  
ACCIDENT ABSORBENT

SEPARTOR MAY BE SQUEEZED CAUSING RELEASE OF  
SMALL AMT OF ACID ELECTROLYTE. NEUTRALIZE W/BAKING SODA & FLUSH  
W/PLENTY H<sub>2</sub>O

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,  
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.