

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) (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)  
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 Mixture: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  
ELECTROLYT  
E 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 OVERCHARGE/ABUSE REMOVE TO FRESH AIR. BREATH DIFF  
AM DIN OXY; BREATH STOP START ART RESP IMMED. SEEK MED ATTN. EYE: EXPO  
NOT EXP ECTED UNDER NORMAL CONDITIONS OF USE. IF ACID 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 Te

mp: Autoignition Temp Text: NP

Lower Limits: NP

Upper Limits: NP

Extinguishing 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.

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===== 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.

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

Handling and Storage Precautions: KEEP AWAY FRM FLAMES DURING/IMMED AFT  
CHARGE. NO SIGNIF HEALTH EFFECTS ASSOC W/PROD. DONT CARRY B  
ATT BY

TERMINALS. DONT DROP/PUNCTURE/OPN BATT CASE.

Other Precautions: 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)

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===== 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 PRODUCTS.

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 ATTN. 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

r: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 ELECTRO LYTE.NEUTRALIZE W/BAKING SODA & FLUSH  
W/PLENTY H2O

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