

OPTIMA BATTERIES INC -- SEALED LEAD ACID BATTERY -- 6140-01-450-0141

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Product Identification
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Product ID:SEALED LEAD ACID BATTERY

MSDS Date:12/13/1996

FSC:6140

NIIN:01-450-0141

Status Code:A

MSDS Number: CLNHP

=== Responsible Party ===

Company Name:OPTIMA BATTERIES INC

Address:17500 E 22ND AVENUE

City:AURORA

State:CO

ZIP:80011

Country:US

Info Phone Num:303-340-7400

Emergency Phone Num:8

00-434-9300

Resp. Party Other MSDS Num.:OBI-001

Chemtrec Ind/Phone:(800)424-9300

CAGE:0UJ55

=== Contractor Identification ===

Company Name:CELL ENERGY INC

Address:3190-B ORANGE GROVE AVE

Box:City:NORTH HIGHLANDS

State:CA

ZIP:95660-5706

Country:US

Phone:916-484-7974

Contract Num:SP0411-02-M-E111

CAGE:1U269

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

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Composition/Information
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on Ingredients =====

Ingred Name:LEAD
CAS:7439-92-1
RTECS #:OF7525000
Minumum % Wt:34.
Maxumum % Wt:42.
ACGIH TLV:0.15 MG/M3
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:SULFURIC ACID ELECTROLYTE
CAS:7664-93-9
RTECS #:WS5600000
Minumum % Wt:17.
Maxumum % Wt:25.
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3
ACGIH STEL:3 MG/M3
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:CASE MATERIAL POLYPROPYLENE
CAS:9003-07-0
RTECS #:UD1842000
Minumum % Wt:2.
Maxumum % Wt:6.

Ingred Name:SEPARATOR/P
ASTER PAPER FIBOROUS GLASS
CAS:65997-17-3
Minumum % Wt:1.
Maxumum % Wt:4.

Ingred Name:LEADY LEAD MONOXIDE. CAS# 68411-78-9.
Minumum % Wt:30.
Maxumum % Wt:36.

Ingred Name:LEAD TETRAOXIDE
CAS:1314-41-6
RTECS #:OG5425000
Minumum % Wt:1.
Maxumum % Wt:3.

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

LD50 LC50 Mixture:ORAL LD50(RAT): UNKNOWN.
Reports of Carcinogenicity:NTP:NO IARC:NO
Health Hazards Acute and Chronic:POTENTIAL HEALTH EFFECTS: NONE
EXPECTED FOR FINISHED

PRODUCT UNDER NORMAL CONDITIONS OF USE.

Explanation of Carcinogenicity:FOR FINISHED PRODUCT UNDER NORMAL CONDITIONS OF USE.

Effects of Overexposure:SIGNS AND SYMPTOMS OF ACUTE EXPOSURE: NONE EXPECTED FOR FINISHED PRODUCT UNDER NORMAL CONDITIONS OF USE. CHRONIC EXPOSURE: NONE EXPECTED FOR FINISHED PRODUCT UNDER NORMAL CONDITIONS OF USE. HOWEVER, D O NOT PUNCTURE OR OPEN BATTERY CASE. ACID ELECTROLYTE MAY BE RELEASED. USE ONLY STANDARD CHARGING METHODS. IF OVERCHARGED, BATTERY MAY RELEASE GASES HYDOGEN AND OXYGEN).

Medical Cond Aggravated by Exposure:NONE EXPECTED FOR FINISHED PRODUCT UNDER NORMAL CONDITIONS OF USE.

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First Aid Measures
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First Aid:INHALATION-NOT EXPECTED FOR PRODUCT UNDER NORMAL CONDITIONS OF USE. HOWEVER, IF ACID VAPOR IS RELEASED DUE TO OVERCHARGING/ABUSE OF THE BATTERY, REMOVE EXPOSED PERSON TO FRESH AIR. IF BREATHING IS DIF FICULT, OXYGEN MAY BE GIVEN. IF BREATHING HAS S TOPPED, ARTIFICIAL RESPIRATION SHOULD BE STARTED IMMEDIATELY. SEEK MEDICAL AID. EYES-EXPOSURE NOT EXPECTED FOR PRODUCT UNDER NORMAL CONDITIONS OF USE. HO WEVER, IF ACID FROM BROKEN BATTERY CASE ENTERS EYES, FLUSH WITH WATER FOR 15 MINS. IF IRRITATION DEVELOPS, SEEK PROMPT MEDICAL AID. SKIN-EXPOSURE NOT EXPECTED FOR PRODUCT UNDER NORMAL CONDITIONS OF US E. INGESTION-SEEK PROMPT MEDICAL AID.

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Fire Fighting Measures
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Extinguishin

g Media:MULTIPURPOSE DRY CHEMICAL OR MULTIPURPOSE CO2.

Fire Fighting Procedures:EVACUATE AREA. SELF-CONTAINED BREATHING APPARATUS MUST BE WORN TO PREVENT POSSIBLE INHALATION OF ACID MISTS, SMOKE AND DECOMPOSITION PRODUCTS IN A FIRE. REMOVE ALL IGNITION SOURCES. COOL BATTERY(S) TO PREVENT RUPTURE.

Unusual Fire/Explosion Hazard:HYDROGEN GAS MAY BE PRODUCED AND MAY EXPLODE IF IGNITED. REMOVE ALL IGNITION SOURCES. VENTILATE AREA.

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Accidental Release Measures
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Spill Release Procedures:AVOID CONTACT WITH ACID MATERIALS. USE SODA ASH, BAKING SODA OR LIME TO NEUTRALIZE ACID IF RELEASED.

Neutralizing Agent:USE SODA ASH, BAKING SODA OR LIME

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

Handling and Storage Precautions:DO NOT CARRY BATTERY BY TERMINALS. DO NOT DROP BATTERY, PUNCTURE OR ATTEMPT TO OPEN BATTERY CASE. KEEP AWAY FROM FLAMES DURING AND IMMEDIATELY AFTER CHARGE. AVOID PROLONGED OVERCHARGES

IN CONFINED ARE AS.

Other Precautions:STORAGE: STORE AT AMBIENT ROOM TEMPERATURE. DO NOT SUBJECT PRODUCT TO OPEN FLAME OR FIRE. AVOID CONDITION WHICH COULD CAUSE ARCING BETWEEN BATTERY TERMINALS. HYGIENE: WASH HANDS THOROUGHLY BEFORE EATING OR SMOKING AFTER HANDLING BATTERIES.

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

Respiratory Protection:NOT NECESSARY UNDER NORMAL CONDITONS OF USE FOR FINISHED PRODUCT.

Ventilation:NOT NECESSARY UNDER NORMAL CONDITONS OF USE FOR FINISHED PRODUCT.

Protective Gloves:NOT NECESSARY UNDER NORMAL CONDITONS OF USE FOR FINISHED PRODUCT.

Eye Protection:NOT NECESSARY UNDER NORMAL CONDITONS OF USE FOR FINISHED PRODUCT.

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

Supplemental Safety and Health

UNDER THE DANGEROUS GOODS REGULATIONS, 38TH EDITION, EFFECTIVE 1 JANUARY 1997, PRODUCED BY INTERNATIONAL AIR TRANSPORTATION (IATA):

OPTIMA BATTERIES ARE CLASSIFIED AS NON-REGULATED BY SPECIAL

PROVISIONS A-48 & A-67 FOR UN NUMBER OF UN2800: BATTERIES, WET, NON-SPILLABLE, ELECTRIC STORAGE.

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

HCC:Z4

===== 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.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

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===== Toxicological Information =====

Toxicological Information:THRESHOLD LIMIT VALUE: NOT APPLICABLE FOR FINISHED PRODUCT. ROUTE OF ENTRY: NOT APPLICABLE FOR FINISHED PRODUCT UNDER NORMAL CONDITIONS OF USE. SIGNS AND SYMPTOMS OF ACUTE EXPOSURE: NONE EXPECTED FOR FINISHED PRODUCT UNDER NORMAL CONDITIONS OF USE. CHRONIC EXPOSURE: NONE EXPECTED FOR FINISHED PRODUCT UNDER NORMAL CONDITIONS OF USE. MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: NONE EXPECTED FOR FINISHED PRODUCT UNDER NORMAL CONDITIONS OF USE.

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

===== MSDS Transport Information =====

Transport Information:SEALED LEAD ACID BATTERY IS NOT A DOT HAZARDOUS MATERIAL.

===== Regulatory Information =====

Federal Regulatory Information:ACCORDING TO THE OSHA HAZARD COMMUNICATION STANDARD, SEALED LEAD ACID BATTERY IN ITS MANUFACTURER AND SUPPLIED STATE IS CONSIDERED NON-HAZARDOUS.

===== Other Information =====

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