

OPTIMA BATTERIES INC -- SEALED LEAD ACID BATTERY

=====  
MSDS Safety Information  
=====

FSC: 6140  
NIIN: 01-440-4837  
MSDS Date: 12/15/2000  
MSDS Num: CLHCC  
Product ID: SEALED LEAD ACID BATTERY  
MFN: 01  
Article: Y  
Responsible Party  
Cage: 0UJ55  
Name: OPTIMA BATTERIES INC  
Address: 17500 E 22ND AVENUE  
City: AU  
RORA CO 80011  
Info Phone Number: 303-340-7400  
Emergency Phone Number: 800-434-9300  
Resp. Party Other MSDS No.: OBI-0001G  
Chemtrec IND/Phone: (800)424-9300  
Published: Y

=====  
Contractor Summary  
=====

Cage: 0UJ55  
Name: OPTIMA BATTERIES INC  
Address: 17500 E 22ND AVENUE  
City: AURORA CO 80011  
Phone: 303-448-8899 OR 800-292-4359

=====  
Item Description I  
nformation  
=====

Item Manager: S9G  
Item Name: BATTERY,STORAGE  
Unit of Issue: EA

=====  
Regulated Components  
=====

Regulated Component Name: SULFURIC ACID ELECTROLYTE  
CAS: 7664-93-9  
Percent Text: 17-25%  
Regulated Component Name: CASE MATERIAL POLYPROPYLENE  
CAS: 9003-07-0  
Percent Text: 2-6%  
Regulated Component Name: SEPERATOR/PASTER PAPER FIBROUS GL

ASS  
CAS: 65997-17-3  
Percent Text: 1-4%  
Regulated Component Name: LEAD COMPOUNDS  
CAS: 7439-92-1  
Percent Text: 63-81%

=====  
Health Hazards Data  
=====

Carcinogenicity Inds - NTP: NO  
IARC: NO

Effects of Exposure: POTENTIAL HEALTH EFFECTS: NONE EXPECTED FOR FINISHED PRODUCT UNDER NORMAL CONDITIONS OF USE. CHRONIC EXPOSURE: NONE EXPECTED FOR FINISHED PRODUCT UNDER NORMAL CONDITIONS OF USE.

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

Signs And Symptoms Of Overexposure: SIGNS AND SYMPTOMS OF ACUTE EXPOSURE: NONE EXPECTED FOR FINISHED PRODUCT UNDER NORMAL CONDITIONS OF USE. EFFECTS OF OVEREXPOSURE: NO EXPOSURE EXPECTED FOR FINISHED PRODUCT. HOWEVER, DO NOT PUNCTURE OR OPEN BATTERY CASE. ACID ELECTROLYTE MAY BE RELEASED. USE ONLY STANDARD CHARGING METHODS. IF OVERCHARGED, BATTERY MAY RELEASE GASES (HYDROGEN AND OXYGEN).

Medical Conditions Aggravated By Exposure: NONE EXPECTED FOR FINISHED PRODUCT UNDER NORMAL CONDITIONS OF USE.

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 DIFFICULT, OXYGEN MAY BE GIVEN. IF BREATHING HAS STOPPED, ARTIFICIAL RESPIRATION SHOULD BE STARTED IMMEDIATELY. SEEK MEDICAL AID. EYES-EXPOSURE NOT EXPECTED FOR PRODUCT UNDER NORMAL CONDITIONS OF

USE. HOWEVER, 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 USE. INGESTION-SEEK PROMPT MEDICAL AID.

=====  
Handling and Disposal  
=====

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.

Waste Disposal Methods: SEND TO A LEAD RECYCLING FACILITY THAT FOLLOWS APPLICABLE FEDERAL, STATE & LOCAL REGULATIONS FOR ROUTINE DISPOSITION OF SPENT OR DAMAGED BATTERIES. THE DISTRIBUTOR/USER IS RESPONSIBLE TO KNOW THAT "SP ENT" &/OR "DAMAGED" BATTEIES ARE DISPOSED OF IN AN ENVIRONMENTALLY SOUND WAY IN ACCORDANCE WITH FEDE RAL, STATE & LOCAL ENVIRONMENTAL REGULATIONS.

Handling And Storage Precautions:

HANDLING: 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 CO NFINED AREAS.

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 EATI NG OR SMOKING AFTER HANDLING BATTERIES.

=====

=====

### Fire and Explosion Hazard Information

=====

Extinguishing 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.

=====

### Control Measures

=====

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: OPTIMA BATTERIES ARE 100% RECYCLABLE BY ANY LICENSED RECLAMATION OPERATION.

=====

### Physical/Chemical Properties

=====

HCC: Z4

=====

### Reactivity Data

=====

=====  
Stability Indicator: YES

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

Hazardous Polymerization Indicator: NO

Conditions To Avoid Polymerization: WILL NOT OCCUR.  
=====

Toxicological Information  
=====

Ecological Information  
=

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

Transport Information: DEADED 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.

State Regulatory Information: PROPOSITION 65 WARNING (CALIFORNIA): BATTERY POSTS, TERMINALS, AND RELATED ACCESSORIES CONTAIN LEAD AND LEAD COMPOUNDS, CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND REPRODUCTIVE HARM . WASH HANDS AFTER HANDLING.  
=====

Other Information  
=====

Other Information: PER DOT, IATA, ICAO AND IMDG RULES AND REGULATIONS, THESE BATTERIES ARE EXEMPT FROM "UN2800" CLASSIFICATIONS AS A RESULT OF SUCCESSFUL COMPLETION OF THE FOLLOWING TESTS: 1) VIBRATION TESTS; 2) PRESSURE DIFFERENTIAL TESTS; 3) CASE RUPTURING TESTS (NO FREE LIQUIDS). ALL BATTERIES MUST BE IDENTIFIED AS "NON-SPILLABLE" OR "NON-SPILLABLE BATTERY" ON THE BATTERY AND THE SHIPMENT PER 49CFR173.159(D)(2) AND BATTERY TERMINALS MUST BE PROTECTED FROM SHORT CIRCUITING.  
=====

=====  
Transportation Information  
=====

Responsible Party Cage: 0UJ55  
Trans ID NO: 157974  
Product ID: SEALED LEAD ACID BATTERY  
MSDS Prepared Date: 12/15/2000  
Review Date: 07/24/2001  
MFN: 1  
Multiple KIT Number: 0  
Review IND: Y  
Unit Of Issue: EA  
=====

=====  
Detail DOT Information  
=====

DOT PSN Code: ZZZ  
DOT Proper Shi  
pping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION  
=====

=====  
Detail IMO Information  
=====

IMO PSN Code: ZZZ  
IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION  
=====

=====  
Detail IATA Information  
=====

IATA PSN Code: ZZZ  
IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION  
=====

=====  
Detail AFI Information  
=====

AFI PSN Code: ZZZ  
AFI Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION  
=====

=====  
HAZCOM Label  
=====

Product ID: SEALED LEAD ACID BATTERY  
Cage: 0UJ55  
Company Name: OPTIMA BATTERIES INC  
Street: 17500 E 22ND AVENUE  
City: AURORA CO  
Zipcode: 8

0011  
Health Emergency Phone: 800-434-9300  
Label Required IND: Y  
Date Of Label Review: 07/24/2001  
Status Code: A  
Origination Code: F  
Eye Protection IND: NO  
Skin Protection IND: NO  
Signal Word: NONE  
Respiratory Protection IND: NO  
Health Hazard: None  
Contact Hazard: None  
Fire Hazard: None  
Reactivity Hazard: None

Hazard And Precautions: EMERGENCY OVERVIEW: EXPOSURE NOT EXPECTED FOR PRODUCT UNDER NORMAL CONDITIONS OF USE. IN ITS MANUFACTURED AND SUPPLIED STATE, THE PRODUCT IS CONSIDERED NON-HAZARDOUS. KEEP AWAY FROM FLAMES DURING AND IMMEDIATELY AFTER CHARGE. NO SIGNIFICANT HEALTH EFFECTS ARE ASSOCIATED WITH THE PRODUCT.

=====

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, states, or intends said information to have any application, use or

viability by or to any person or persons outside the Department of Defense nor any person or persons contracting with any instrumentality of the United States of America and disclaims all liability for such use. Any person utilizing this instruction who is not a military or civilian employee of the United States of America should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation regardless o

f similarity to a corresponding Department of Defense or other government situation.