Product ID:ENGINE STARTING BATTERIES 34-1050 OR 800S

MSDS Date:01/04/1999

FSC:6140

NIIN:01-378-8232 Status Code:A

MSDS Number: CJGLV === 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:(800)424-9300

Resp. Party Other

MSDS Num.:OBI-0001 C

Chemtrec Ind/Phone:(800)424-9300

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 COMPOUNDS

CAS:7439-92-1

RTECS #:OF7525000 Minumum % Wt:68. Maxumum % Wt:81. ACGIH TLV:0.15 MG/M3

EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name: SULFURIC ACID E

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

LECTROLYTE

Ingred Name: POLYPROPYLENE CASE MATERIAL

CAS:9003-07-0 RTECS #:UD1842000 Minumum % Wt:2. Maxumum % Wt:6.

Ingred Name: SEPARATOR/PASTER PAPER FIBROUS GLASS

CAS:65997-17-3

Code:F

Minumum % Wt:1. Maxumum % Wt:4.

LD50 LC50 Mixture:NONE STATED BY MANUFACTURER

outes of Entry: Inhalation:NO Skin:NO Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

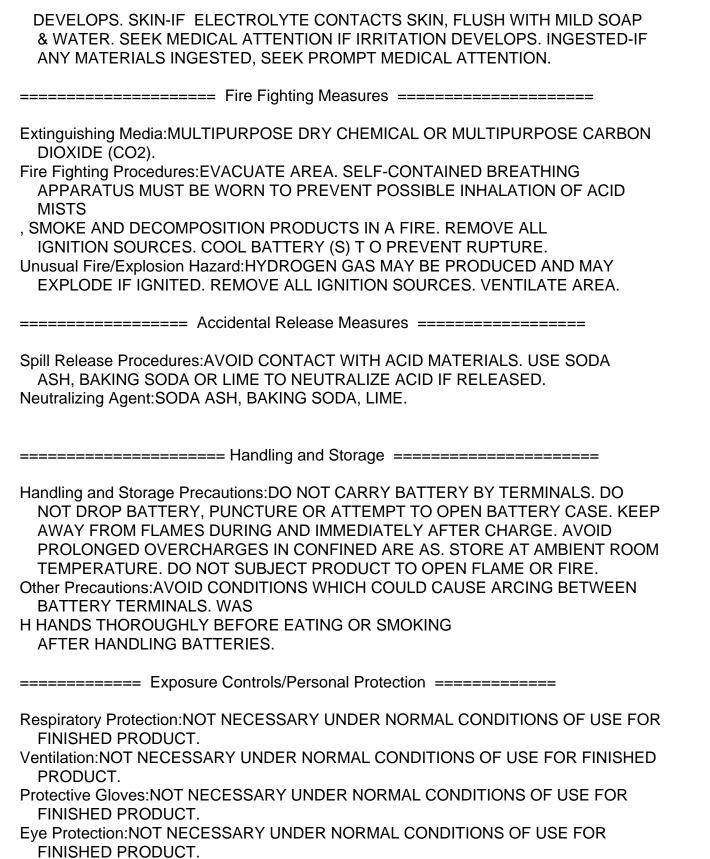
Health Hazards Acute and Chronic:NONE EXPECTED FOR FINISHED PRODUCT UNDER NORMAL CONDITIONS OF USE.

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

Effects of Overexposure: NONE EXPECTED FOR FINISHED PRODUCT UNDER NORMAL CONDITIONS OF USE.

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

First Aid:NONE EXPECTED FOR FINISHED PRODUCT UNDER NORMAL CONDITIONS OF USE. INHALED-IF ACID VAPOR RELEAED, REMOVE PERSON TO FRESH AIR. IF BREATHING DIFFICULT, OXYGEN MAY BE ADMINISTERED. IF BREATHING STOPPED, ARTIFICIAL RESPIRATION MAY BE STARTED. SEEK MEDICAL ATTENTION. EYES-IF ELECTROLYTE ENTERS EYES, FLUSH WITH WATER FOR AT LEAST 15 MINUTES. SEEK PROMPT MEDICAL ATTENTION IF IRRITATION



Othe

r Protective Equipment:NOT NECESSARY UNDER NORMAL CONDITIONS OF USE FOR FINISHED PRODUCT.

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

Supplemental Safety and Health

THE SEALED LEAD ACID BATTERY IS NOT CONSIDERED FLAMMABLE, BUT WILL BURN IF INVOLVED IN A FIRE. SHORT CIRCUIT CAN ALSO RESULT IN FIRE.

EVACUATE AREA. SELF-CONTAINED BREATHING APPARATUS MUST BE WORN TO

PREVENT INHALATION OF ACID MISTS. SMOKE & DECOMPOSITION PRODUCTS IN

A FIRE. REMOVE ALL IGNITION SOURCES. ========= Physical/Chemical Properties =========== HCC:Z4 Appearance and Odor: SEALED LEAD ACID BATTERY. ======== Stability and Reactivity Data =========== Stability Indicator/Materials to Avoid:YES NONE STATED BY MANUFACTURER. Stability Condition to Avoid: AVOID SHORTING, USE ONLY APPROVED CHARGING METHODS. DO NOT PUNCTURE BATTERY CASE. Hazardous Decomposition Products: NONE STATED BY MANUFACTURER. Conditions to A void Polymerization: WILL NOT OCCUR. ======== Toxicological Information ============ Toxicological Information: THREASHOLD LIMIT VALUE: NONE APPLICABLE FOR FINISHED PRODUCT. ROUTE OF ENTRY: NONE APPLICABLE FOR FINISHED PRODUCT UNDER NORMAL CONDITIONS OF USE. SIGNS OF SYMPTOMS OF ACUTE EXPOSURE: NONE EXPECTED FO R FINISHED PRODUCT UNDER NORMAL CONDITIONS OF USE. CHRONIC EXPOSURE: NONE EXPECTED FOR FINISHED PRODUCT UNDER NORMAL CONDITIONS OF USE. EFFECTS OF OVEREXPOSURE. CONDITIONS TO AVOID: NO EXPOSURE EXPEC TED FOR FINISHED PRODUCT.HOWEVER, DO NOT PUNCTURE OR OPEN BATTERY CASE. ACID ELECTROLYTE MAY BE RELEASED. ========= Ecological Information ===============

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS. SEND TO A LEAD RECYCLING FACILITY WHICH FOLLO

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

Ecological: NONE STATED BY MANUFACTURER.

۷	VS APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS FOR ROUTINE
	DISPOSAL OF SPENT OR DAMAGED BATTERIES. THE DISTRIBUTOR/USER IS
	RESPONSIBLE FOR ROUTINE DISPOSITION OF SPENT OR DAMAGED
	BATTERIES.

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

Transport Information:SEALED LEAD ACID BATTERY IS NOT A US DOT HAZARDOUS MATERIAL. UNDER DANGEROUS GOODS REGULATIONS, 38TH EDITION, EFFECTIVE JANUARY 1, 1997, PRODUCED BY INTERNATIONAL AIR TRANSPORTATION ASSO

CIATION (IATA): OPTIMA BATTERIES ARE CLASSIFIED
AS NON-REGULATED BY SPECIAL PROVISIONS A-48 AND A-67 FOR UN NUMBER
UN2800. UNDER THE CODE OF FEDERAL REGULATIONS #49, MARCH 1, 1998
EDITION, OPTIMA BATTERIES ARE CLAS SIFIED AS AN EXCEPTION FROM ALL
OTHER REQUIREMENTS OR CONDITIONS AS STATED IN: BATTERIES WET,
173:159 (D)(3)(I)[VIBRATION TEST] AND (D)(3)(I)(I)[PRESSURE
DIFFERENTIAL TEST].

=======================================	Regulatory	Information	=======================================
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SARA Title III

Information: NONE STATED BY MANUFACTURER.

Federal Regulatory Information:ACCORDING TO THE OSHA HAZARD COMMUNICATION STANDARD, SEALED LEAD ACID BATTERY IN ITS MANUFACTURED AND SUPPLIED STATE IS CONSIDERED NON-HAZARDOUS. State Regulatory Information:NONE STATED BY MANUFACTURER.

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

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