

Material Safety Data Sheet

May be used to comply with
OSHA's Hazard Communication Standard.
29 CFR 1910.1200 Standard must be
consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 12 18-0072

Identity (As Used on Label and List)

CAREFREE or HE Rechargeable Battery

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that

Section I

Manufacturer's Name	Emergency Telephone Number
Eagle-Picher Industries, Inc.	417-659-9635 800-424-9300 (CHEMTREC)
Address (Number, Street, City State, and Zip Code)	Telephone Number for Information
P.O. Box 130	417-659-9635
14212 Bethel Road	Date Prepared
Seneca, MO 64865	12 Sept. 02
	Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity, Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Lead CAS #7439-92-1	0.050 mg/m ³	0.15 mg/m ³		50%
Lead Oxides CAS #1314-41-6 - 1317-36-8	0.050 mg/m ³	0.15 mg/m ³		25%
38% Sulfuric Acid, 1.28 s.g. CAS #7664-93-9	1.0 mg/m ³	1.0 mg/m ³		18%

GROUND SHIPMENTS: NOT REGULATED PER 49 CFR 173.159 (d)

AIR SHIPMENTS: Not Regulated Per IATA, Special Provisions 4.4, A67

UL# MH11835

OCEAN SHIPMENTS: Not Regulated

THIS PRODUCT IS AN ARTICLE UNDER OSHA

Section III - Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H ₂ O=1)	N/A
Vapor Pressure (mm Hg.)	N/A	Melting Point	N/A
Vapor Density (Air=1)	N/A	Evaporation Rate (Butyl Acetate=1)	N/A
Solubility in Water	N/A		
Appearance In Odor	N/A		

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
Direct Flame to Battery Case	UL-94HB, 94V-O on FR UNITS	N/A	N/A
Extinguishing Media	Water, Foam, Dry		
Special Fire Fighting Procedures	N/A		
Unusual Fire and Explosion Hazards	Keep lighted cigarettes, sparks and flames away. Explosion can result from improper charging and ignition of charging gases. Explosion can result if charged in gas tight enclosures.		

(Reproduce Locally)

OSHA 174, Sept. 1985

Section V - Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	XX	

Incompatibility (Materials to Avoid)

Solvents may dissolve battery case material.

Hazardous Decomposition or Byproducts

Severe overcharge and overheating may cause sulfur oxide fumes.

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	XX	

Section VI - Health Hazard Data

Routes(s) of Entry	Inhalation?	Skin?	Ingestion?
Eyes	Yes	Yes	Yes

Health Hazards (Acute and Chronic)

Severe burns and eye damage from sulfuric acid electrolyte.

Illness from sulfur oxide fumes

Contains lead which is known to cause birth defects or other reproductive harm.

Carcinogenicity	NTP?	IARC Monographs?	OSHA Regulated?
NA	No	No	No

Signs and Symptoms of Exposure

Irritation and Acid Burns

Pungent odor and respiratory irritation

Medical Conditions

Generally Aggravated by Exposure

N/A

Emergency and First Aid Procedures

For sulfur oxide fumes, disconnect batteries, evacuate and ventilate.

External, flush areas contaminated by sulfuric acid electrolyte with water.

Internal, drink large quantities of water or milk, followed by milk of magnesia, beaten eggs, or vegetable oil

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

Avoid contact with sulfuric acid electrolyte from battery. Flush with water.

Neutralize with solution of baking soda in water.

Waste Disposal Method

Unlawful to dispose in landfill. Do not incinerate, puncture, disassemble or mutilate

Dispose with automotive battery scrap in accordance with local and federal regulations.

Precautions to be taken in Handling and Storing

Batteries with released electrolyte shall be sealed in polyethylene bags.

Keep batteries away from children

Other Precautions

Do not crack battery cases. Do not overcharge. Do not short circuit battery terminals.

Keep lighted cigarettes, sparks and flames away from charging batteries.

Section VIII - Control Measures

Respiratory Protection (Specific Type)

N/A

Ventilation	Local Exhaust	Specific
	Mechanical (General)	Other Natural convection

Protective Gloves

Use rubber gloves if case is cracked

Eye Protection

Recommended

Other Protective Clothing or Equipment

N/A

Work/Hygienic Practices

N/A