

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	<i>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</i>
---	---

Section I

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

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) Direct Flame to Battery Case	Flammable Limits UL-94HB, 94V-O on FR UNITS	LEL N/A	UEL 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 (<i>Specific Type</i>)			
N/A			
Ventilation	Local Exhaust	Specific	
	Mechanical (<i>General</i>)	Other Natural convection	
Protective Gloves	Eye Protection		
Use rubber gloves if case is cracked	Recommended		
Other Protective Clothing or Equipment			
N/A			
Work/Hygienic Practices			
N/A			