



MATERIAL SAFETY DATA SHEET

Form # MSDS 853025
Revised: 05/01/11
Supersedes: 07/05/09
ECO #: 1001007

Table with 6 main sections: I. PRODUCT IDENTIFICATION, II. HAZARDOUS INGREDIENTS/IDENTIFY INFORMATION, III. PHYSICAL DATA, IV. FIRE AND EXPLOSION HAZARD DATA, V. REACTIVITY DATA, VI. HEALTH HAZARD DATA. Each section contains specific safety and chemical data.



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EMERGENCY AND FIRST AID PROCEDURES:

Inhalation:

Not applicable to batteries in transit but if on charge in confined, poorly ventilated area and fumes irritating, remove person to fresh air.

Ingestion:

Get medical help. Give patient copious amounts of water. Do not induce vomiting.

Skin:

Remove contaminated clothing and flush skin with water for 15 minutes. Do not attempted to neutralize with alkaline.

Eyes:

Hold eyelids open an flush with clean water for 15 minutes. Get medical help promptly.

VII. PRECAUTIONS FOR SAFE HANDLING AND USE

Spill or Leak Procedures:

Clean up personnel should wear safety goggles, rubber gloves, rubber boots and rubber apron. Use weak acids, ex: boric acid, acetic acid.

Waste Disposal Methods:

Consult waste disposal business for proper disposition. Do not empty in common sewer systems.

VII. PRECAUTIONS FOR SAFE HANDLING AND USE (Cont.)

Handling and Storage:

Rubber boots and rubber aprons, chemical goggles or full-face shield should be worn while handling. Cells/Batteries to be stored in standard battery room conditions.

VIII. CONTROL MEASURES

Personal Protective Equipment:

Rubber gloves, safety goggles, alkaline resistant protective clothing.

IX. OTHER REGULATORY INFORMATION

U.S. DOT:

The transportation of wet and moist charged (moist active) batteries within the continental United States is regulated by the U.S. DOT through the Code of Federal Regulations, Title 49 (CFR49). These regulations classify these types of batteries as a hazardous material. Refer to CFR 49, 173.159 for more details pertaining to the transportation of wet and moist batteries.

The shipping information is as follows:

Proper Shipping Name: Batteries, wet, filled with alkali
Hazardous Class: 8
UN Identification: UN2795
Packing Group: III
Label/Placard Required: Corrosive

Contact your EnerSys representative for additional information regarding the classification of batteries.

IATA:

The international transportation of wet and moist charged (moist active) batteries is regulated by the International Air Transport Association (IATA). These regulations also classify these types of batteries as a hazardous material. The batteries must be packed according to IATA Packing Instruction 870.

The shipping information is as follows:

Proper Shipping Name: Batteries, wet, filled with alkali
Hazardous Class: 8
UN Identification: UN2795
Packing Group: III
Label/Placard Required: Corrosive

Contact your EnerSys representative for additional information regarding the classification of batteries.

IX. OTHER REGULATORY INFORMATION (Cont.)

IMDG:

The international transportation of wet and moist charged (moist active) batteries is regulated by the International Maritime Dangerous Goods code (IMDG). These regulations also classify these types of batteries as hazardous material. The batteries must be packed according to IMDG code pages 8120 and 8121.

The shipping information is as follows:

Proper Shipping Name: Batteries, wet, filled with alkali
Hazardous Class: 8
UN Identification: UN2795
Packing Group: III
Label/Placard Required: Corrosive

RCRA:

Spent nickel-cadmium batteries are regulated as universal waste by the EPA when recycled, however state and international regulations may vary.

CERCLA (Superfund) and EPCRA:

(a) EPCRA Section 312 Tier 2 reporting is required for batteries if potassium hydroxide, nickel and/or cadmium is present in quantities of 10,000 lbs. or more.

(b) Supplier Notification: This product contains toxic chemicals, which may be reportable under EPCRA Section 313 Toxic Chemical Release Inventory (Form R) requirements.

If you are a manufacturing facility under SIC codes 20 through 39, the following information is provided to enable you to complete the required reports:

Table with 3 columns: Toxic Chemical, CAS Number, Approximate % by Wt. Rows include Nickel, Cadmium, and Cobalt.



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If you distribute this product to other manufacturers in SIC Codes 20 through 39, this information must be provided with the first shipment of each calendar year.

The Section 313 supplier notification requirement does not apply to batteries, which are "consumer products".

(c) TSCA:

Ingredients in EnerSys' batteries are listed in the TSCA Registry as follows:

<u>Components</u>	<u>CAS Number</u>	<u>TSCA Status</u>
Nickel	7440-02-0	Listed
Cadmium	7440-43-9	Listed
Iron	7439-89-6	Listed
Potassium Hydroxide	1310-58-3	Listed
Cadmium Hydroxide	21041-95-2	Listed
Cobalt	7440-48-4	Listed

CAA: EnerSys supports preventative actions concerning ozone depletion in the atmosphere due to emissions of CFC's and other ozone depleting chemicals (ODC's), defined by the USEPA as Class I substances. Pursuant to Section 611 of the Clean Air Act Amendments (CAAA) of 1990, finalized on January 19, 1993, EnerSys established a policy to eliminate the use of Class I ODC's prior to the May 15, 1993 deadline.