

VALVE-REGULATED LEAD-ACID RECHARGEABLE BATTERIES

1. GENERAL INFORMATION

IDENTIFICATION OF PRODUCTS

862440

Battery 12V-440CA

COMPANY IDENTIFICATION

CETEOOR
 ZI – Rue de la Baronnerie 3
 B-4920 HARZE
 BELGIUM
 Tel : 0032 (4) 388 20 17

2. COMPOSITION/INFORMATION ON INGREDIENTS

C.A.S.	PRINCIPAL HAZARDOUS COMPONENTS (chemical & common name)	Hazard Label	% Weight
7439-92-1	Inorganic Lead/Lead Compounds	T	~70
65997-17-3	Fiberglass Separator	Not applicable	~1
7664-93-9	Sulfuric acid	C	~20
9003-56-9 (ABS) 9003-07-0 (PP)	Container Plastic (ABS or PP)	Not applicable	~6

3. HAZARDS IDENTIFICATION

Hazards Identification: The battery has passed the vibration testn pressure differential test and leakage test at 55°C according to Recommendations on the TRANSPORT OF DANGEROUS GOODS Model Regulation 17th SPECIAL PROVISION 238. It is not restricted to IATA Dangerous Goods Regulation (DGR) 55th according to special provision A67 and is not restricted to IMDG CODE according to special provision 238.

Emergency Overview: The internal battery materials may cause severe irritation to eyes and skin. Causes burns.

4. FIRST AID MEASURES

Emergency and First Aid Procedures	Contact with internal components if battery is opened/broken.
1. Inhalation	Remove to fresh air and provide medical oxygen/CPR if needed. Obtain medical attention.
2. Eyes	Immediately flush with water for at least 15 minutes, hold eyelids open. Obtain medical attention.
3. Skin	Flush contacted area with large amounts of water for at least 15 minutes. Remove contaminated clothing and obtain medical attention if necessary.
4. Ingestion	Do not induce vomiting. Obtain medical attention..

5. FIRE-FIGHTING MEASURES

Extinguishing Media	Suitable: Dry chemical, sandy soil, carbon dioxide or appropriate foam.
Firefighting	Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific hazards: Emit toxic fumes under fire conditions

6. ACCIDENTAL RELEASE MEASURES

If batteries show signs of leaking, avoid skin or eye contact with the material leaking from the battery. Use chemical resistant rubber gloves and non-flammable absorbent material for clean-up. Mix with inert material (e.g. dry sand, vermiculite) and transfer to sealer container for disposal.

7. HANDLING AND STORAGE

Handling	Keep away from ignition sources, heat and flame. Such batteries must be packed in inner packages in such manner as to effectively prevent short circuits and to prevent movement which could leave to short circuits. Avoid mechanical or electrical abuse and overcharge. More than a momentary short circuit will generally reduce the battery service life. Avoid reversing battery polarity within the battery assembly. In case of a battery unintentionally crushed, acid resistant gloves must be used to handle all battery components. Avoid contact with eyes, skin. Avoid inhalation. No smoking at working site. Materials to avoid: Strong oxidant, Combustible materials and Corrosives.
Storage	Store in a cool; well-ventilated area. Keep away from ignition sources, heat and flame. Such batteries must be packed in inner packages in such a manner as to effectively prevent short circuits and to prevent movement which could lead to short circuits. Materials to Avoid: Strong oxidant, Combustible materials and Corrosives.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Controls	Use ventilation equipment if available. Safety shower and eye bath.				
Ventilation	Store and handle in dry ventilated area.	Local Exhaust	When PEL is exceeded	Mechanical (General)	Not Applicable
Personal Protective Equipment	Respiratory: Wear government approved air-purifying respirator if needed. Eye: Chemical safety glasses. Clothing: Wear appropriate protective clothing. Hand: Wear acids resistant gloves.				
Other Protective Clothing or Equipment	Safety shower and eyewash.				

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: Not Applicable	Vapor Pressure: Not Applicable	
Appearance: Odor: MP/MP Range: pH Value: Solubility:	Black or gray plastics cement case (containing dielectric) Odorless >300°C 1~2 Partial soluble in water	

10. STABILITY AND REACTIVITY

Stability	Stable under normal temperatures and pressures.
Incompatibility (Materials to Avoid)	Strong oxidant, Corrosives.
Conditions to Avoid:	Avoid exposure to heat and open flame, Avoid mechanical or electrical abuse and overcharge. Prevent short circuits. Prevent movement which could lead to short circuits.
Hazardous Decomposition Products	Sulfur oxides, Sulfuric acid mist, Metal oxides.
Hazardous Polymerization	Hazardous Polymerization has not been reported.

11. TOXOLOGICAL INFORMATION

Toxicity Data: Not available.

Irritation Data: The internal battery materials may cause severe irritation to eyes and skin. Causes burns.

Carcinogenicity: The International Agency on Cancer (IARC) has classified "strong inorganic acid mists containing sulfuric acid" as a category 1 carcinogen (inhalation), a substance that is carcinogenic to humans. This classification does not apply to the sulfuric acid contained within the battery. Misuse of the product, such as overcharging, may result in the generation of sulfuric acid mist at high levels.

12. ECOLOGICAL INFORMATION

Lead and its compounds can result in a threat if released into the environment. In most surface water and groundwater, lead forms compounds with anions such as hydroxides, carbonates, sulfates, and phosphates, and precipitates out of the water column. Lead may occur as sorbed ions or surface coatings on sediment mineral particles or may be carried in colloidal particles in surface water. Most lead is strongly retained in soil, resulting in little mobility. Lead may be immobilized by ion exchange with hydrous oxides or by chelation with humic or fulvic acids in the soil. Lead (dissolved phase) is bioaccumulated by plants and animals, both aquatic and terrestrial.

13. DISPOSAL CONSIDERATIONS

Appropriate Method of Disposal of substance: Lead-acid batteries are completely recyclable. Return whole scrap batteries to distributor, manufacturer or lead smelter for recycling. For neutralized spills, place residue in acid-resistant containers with sorbent material, sand or earth and dispose of in accordance with local, state and federal regulations for acid and lead compounds. Contact local and/or state environmental officials regarding disposal information.

14. TRANSPORT INFORMATION

All AGM CETEOR batteries are valve regulated lead acid (VRLA) batteries.

We hereby certify that all CETEOR Valve Regulated Lead-acid Rechargeable batteries conform to the UN2800 classification as "Batteries, wet, Non-Spillable, and electric storage" as a result of passing the Vibration and Pressure Differential Test described in D.O.T., 49 CFR 173.159(f), and IMO/IMDG, and ICAO/IATA packing instruction 872 and note A48, A67, A164 and A183.

The batteries are not restricted to IMO/IMDG code according to special provision 238.

CETEOR Batteries having met the related conditions are EXEMPT from hazardous goods regulations for the purpose of transportation by DOT, and IATA/ICAO, and therefore are unrestricted for transportation by any means. For all modes of transportation, each battery outer package is labeled "NON-SPILLABLE". All our Batteries are marked non-spillable.

15. REGULATORY INFORMATION

EU Regulation: In accordance with EU2006/66/EC Battery Directive, VRLA batteries should present crossed-out wheeled bin symbol of lead together with the ISO recycling symbol.



16. OTHER INFORMATION

Products such as Batteries are not in the scope of regulation which requires the publication of an EU Safety Data Sheet (91/155/EEC).