



ENOVE
28, Rue 8601
ZI de la Cherguia
2035 Tunis Carthage
TUNISIE

Material Safety Data Sheet

PRIMARY BATTERIES, TYPE AIR DEPOLARIZED SALINE BATTERIES

Réf: PR 007 - AQ 108

Date: 01/14

Page: 1/4

1. PRODUCT & COMPANY IDENTIFICATION

Product designation : Saline Air Depolarized Batteries; AD6540/55Ah, AD6535/90Ah,
AD6535//130Ah and RP7/90 Ah

Packaging : 4 batteries/case, on a filmed pallet

Utilization : Electric fencing

Product code : 390101, 390301, 390401, 3070301

Supplier : " **ENOVE** " Energies Nouvelles et Environnement
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2. HEALTH HAZARD INFORMATION

Effects of overexposure:

Eye effects: Contact with electrolyte solution or gel inside battery causes very rapid, severe damage. Extremely corrosive to eye tissues. May result in permanent blindness.

Skin effects: Contact with electrolyte solution or gel inside battery may cause serious irritation to skin tissues.

Ingestion: Ingestion of electrolyte solution or gel causes tissues damage to throat area and gastro/respiratory tract.

Inhalation: Mist generated may cause varying degrees of irritation of the nasal mucous membranes and respiratory tract tissues.

Carcinogenicity: No components of battery have been found to have carcinogenic effects by the NTP, IARC, or OSHA.

3. EMERGENCY FIRST AID

Eye contact: Flush with plenty of water for at least 20 minutes. Get immediate medical attention.

Skin contact: Remove contaminated clothing and flush affected areas with plenty of water for at least 20 minutes.

Ingestion: Drink large quantities of milk or water. Do not induce vomiting. Get immediate medical attention. Do not give anything by mouth to an unconscious person.

Inhalation: Remove to fresh air. Give oxygen or artificial respiration if needed. Get immediate medical attention.

4. REACTIVITY DATA

Stable under normal conditions.

Incompatibilities: Acids.

Note that normal reactions inside batteries utilize oxygen in atmosphere and liberate a small quantity of flammable hydrogen gas. Do not seal battery from atmosphere.

5. FIRE AND EXPLOSION HAZARDS

Flash point: Not determined for battery. Lid melts at 210°F (99°C). Case decomposes non-violently above 550°F (288°C). Auto ignition temperature 850°F (454°C).

Special fire fighting procedures: Wear protective clothing and equipment to prevent potential body contact with electrolyte solution or mixture of water and electrolyte solution.

Fire and explosion hazards: Electrolyte solution or gel is irritating to all human tissues. Electrolyte solution and gel react with acids and other active materials releasing flammable hydrogen gas.

6. INGREDIENTS

INGREDIENTS	CAS #	EXPOSURE LIMITS	QUANTITY % SALINE
Polystyrene	9003-53-6	None established : OSHA	2
Polypropylene	9003-07-0	None established : OSHA	8
Polyethylene	9002-88-4	None established : OSHA	4
Ammonium chloride	12125-02-9		40
Zinc chloride	7646-85-7		5
Carbon	7440-44-0	None established : OSHA	10
Graphite	7782-42-5	None established : OSHA	2
Zinc	7440-666		21
Water	7732-18-5		2
Miscellaneous			6



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Page: 3/4

7. PHYSICAL PROPERTIES

Boiling point: Not applicable

Vapour pressure: 2mm Hg at 68°F (20°C)

Specific gravity: 1,29

Evaporation rate: Not determined

Solubility in water: Electrolyte solution is completely soluble. The remainder is insoluble.

Storage: For optimum battery performance do not store above 100°F (38°C).

8. SPILL MANAGEMENT PROCEDURES

Electrolyte solution spills:

Small (up to 5 gallons): Flush with water.

Large: Contain material in suitable containers or holding area. Do not allow material to enter sewers, streams, or storm conduits. Recover material with vacuum truck and dispose of property.

Reportable quantity: 1,000 pounds 40CFR117.13.

9. DISPOSAL INFORMATION

Discharged battery is a universal waste under RCRA. Return to ENOVE to recycling.

Battery is not EP Toxic. Discharged battery, electrolyte solution, and electrolyte gel are corrosive. Dispose of in accordance with all federal, state, and local regulations.

10. PRECAUTIONS AND COMMENTS

Do not store or utilise battery for prolonged periods tilted more than 30 degrees from vertical, as leakage may result.

When removing battery from service, visually inspect all batteries for leakage prior to handling. If leakage has occurred follow Spill Management Procedure. For buoy packs, exercise caution as electrolyte may weaken wooden frame and/or nylon rope.

11. TRANSPORT

This product is non hazardous according to transport regulations

Last date revised: 01/2014

Date issued: 01/2014

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