

# Section 1 Product and Company Identification

Product name:	Valve-regulated lead-acid battery
Trademark:	ULTRACELL
Company name:	Ultracell (UK) Ltd
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### Section 2 Composition/Information on Ingredients

Pure Chemical	Mixture		
Chemical ingredients:			
Chemical ingredient	Molecular Formula	Content (about)	CAS No.
Lead and lead oxide	Pb, PbO <sub>2</sub>	60-70	7439-92-1,1309-60-0
Calcium	Са	<0.15	7440-70-2
Tin	Sn	<1	7440-31-5
Sulfuric acid	$H_2SO_4$	10-15	7664-93-9
ABS		5-10	9003-56-9
AGM separator		3-4	

## Section 3 Hazards Summarising

Classification of Danger: (see section 14)

Invasion Route: eyes, skin contact, ingestion

**Health Hazard:** The Valve-regulated lead-acid batteries are not hazardous when used according to the instructions of manufacturer under normal conditions. In case of abuse, there's risk of rupture, fire, heat, leakage of internal components, which could cause casualty loss. Contact with internal components may cause irritation or burns to eyes and skin. Abuses include but not limited to the following cases: charged for long time, short circuited, put into fire, hit with hard object, punctured with acute object, crushed, and broken.

Environmental Hazard: The internal electrolyte may cause adverse environmental impacts

The Danger of Burning and Exploding: Short circuit, fire, or explosions may occur in high temperature.



### Section 4 First - Aid Measures

The valve-regulated lead-acid batteries are not hazardous with eye and skin contact under normal circumstance. In case of internal hazardous substance leaking, the following measures should be taken if body parts contact with these substance:

#### AFTER SKIN CONTACT:

In case of contact, immediately wash skin with soap and copious amounts of water, if irritation persists, please seek medical attention.

#### AFTER EYE CONTACT:

In case of contact, flush eyes with clean water for 15 minutes while lifting eyelids, if irritation persists, please seek medical attention.

#### AFTER INHALATION:

If inhaled, immediately seek an area of fresh air. If breathing becomes difficult or stops, provide oxygen/artificial respiration and seek immediate medical attention. AFTER INGESTION:

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

### **Section 5 Fire - Fighting Measures**

Characteristics of Hazard : Toxic fumes; gases or vapors may evolve on burning.

Hazardous Combustion Products: CO, CO2, acid, hydrogen and oxygen gas

Fire-extinguishing Methods and Extinguishing Media: Carbon dioxide, dry chemical powder, or appropriate foam

Attention in Fire-extinguishing: The Firemen should put on antigas masks and full fire-fighting suits.

### Section 6 Accidental Release Measures

If leakage of batteries occurs, liquid can be absorbed with sands, earth, or other inert substance, and the contaminated area should be ventilated immediately. Damaged batteries that are not hot or burning should be placed in a sealed plastic bag or container, and be disposed of immediately. Protective clothing should be worn when disposing of damaged batteries i.e. gloves, goggles and acid resistant clothing/boots.

### Section 7 Handling and Storage

Handling: please handle the batteries with caution and care to avoid damage to either the case or internal components. Ensure battery terminals do not come into contact with any metallic objects to avoid short circuit. Once handled be sure to wash hands with soap and water before eating/drinking.

**Storage:** Store and used far away from heat, sparks, open flame, or other heat ignition sources, within room temperature <30°C in ventilated and dehumidified environments.

### Section 8 Exposure Controls/Personal Protection

#### Maximum Allowable Concentration: No Standard available

**Engineering Controls:** no engineering controls are required for handling batteries that have not been damaged. Personal protective equipments for damaged batteries should include chemical resistant gloves and safety glasses.



## **Section 9 Physical and Chemical Properties**

Not Applicable

## Section 10 Stability and Reactivity

Stability: Stable under normal temperatures and pressures.

Incompatibility: Oxidizing agents

Conditions to Avoid: Heat and open flame, short circuit, and water

Hazardous polymerization: Will not occur

Decomposition Products: CO, CO2, acid, hydrogen and oxygen gas

## Section 11 Toxicological Information

This product does not elicit toxicological properties during routine handling and use.

## **Section 12 Ecological Information**

Ecological toxicity:N/A Biodegradability: N/A Non-biodegradability: N/A Other hazardous: The internal electrolyte may cause adverse environmental impacts

## Section 13 Disposal

Waste Treatment: Recycle or dispose of in accordance with government , state & local regulations.

Attention for Waste Treatment: Spent batteries should not be treated as ordinary waste. Do not throw into fire or place in

high temperatures. Do not disassemble, dissect, crush or pierce. Recycling is preferred method of disposal.

## **Section 14 Transport Information**

UN NO. UN2800 Proper shipping name: N/A Packing group: N/A



ICAO/IATA	IMDG CODE	DOT
Not - regulated	Not - regulated	Not - regulated
Can be shipped by air in	International Maritime	non-Spillable Battery complies
accordance with International Air	Organization(IMO) under Special	with the provisions listed in 49
Transport Association(IATA),DGR	Provision 238	CFR 173.159(d), therefore must not
Packing Instructions(PI), PI872		be marked with an identification
appropriate and Special Provision		number or hazardous label and is
A67		not subject to hazardous shipping
		paper requirements.

Batteries must be securely packed to prevent short-circuiting

# Section 15 Regulatory Information

**Regulatory information:** Recommendations on the transport of dangerous goods-model regulations(15th revised) IATA dangerous goods regulations, International Maritime Dangerous Goods Code, U.S. Hazardous Material Regulations

## **Section16 Other Information**

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.