

# MSDS Report

## MATERIAL SAFETY DATA SHEET

**Name of Sample** : SEALED LEAD-ACID BATTERY 2V4Ah,

**Model** : 2V4Ah, Reference to page 2

**Distributor** : ELCART DISTRIBUTION Spa

**Address** : Via M. Buonarroti, 46 - 20093 Cologno Monzese (MI) - ITALY

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## Section 1 - Chemical Product and Company Identification

**Distributor** : ELCART DISTRIBUTION SpA

**Address** : Via M. Buonarroti, 46 - 20093 Cologno Monzese (MI) - ITALY

**Product name** : SEALED LEAD-ACID BATTERY EXTRACELL - YAMADA

2V4Ah, 2V4.5Ah, 2V5Ah, 2V6Ah, 4V0.3Ah, 4V0.5Ah, 4V0.7Ah, 4V0.8Ah, 4V0.9Ah, 4V1Ah, 4V1.2Ah, 4V1.5Ah, 4V1.8Ah, 4V2Ah, 4V2.3Ah, 4V2.5Ah, 4V3Ah, 4V3.2Ah, 4V3.5Ah, 4V4Ah, 4V4.2Ah, 4V4.5Ah, 4V4.8Ah, 4V5Ah, 4V5.2Ah, 4V5.5Ah, 4V6Ah, 4V6.5Ah, 4V7Ah, 4V7.2Ah, 4V7.5Ah, 4V7.8Ah, 4V8Ah, 4V9Ah, 4V10Ah, 6V1Ah, 6V1.2Ah, 6V1.3Ah, 6V2Ah, 6V2.3Ah, 6V2.8Ah, 6V3Ah, 6V3.2Ah, 6V3.3Ah, 6V3.4Ah, 6V3.5Ah, 6V3.6Ah, 6V3.8Ah, 6V4Ah, 6V4.2Ah, 6V4.5Ah, 6V4.8Ah, 6V5Ah, 6V5.2Ah, 6V5.5Ah, 6V6Ah, 6V6.5Ah, 6V6.8Ah, 6V7Ah, 6V7.2Ah, 6V7.5Ah, 6V7.8Ah, 6V8Ah, 6V8.5Ah, 6V9Ah, 6V10Ah, 6V11Ah, 6V12Ah, 6V13Ah, 6V14Ah, 6V15Ah, 12V0.8Ah, 12V1.2Ah, 12V1.3Ah, 12V1.5Ah, 12V2Ah, 12V2.1Ah, 12V2.2Ah, 12V2.3Ah, 12V2.4Ah, 12V2.6Ah, 12V2.8Ah, 12V2.9Ah, 12V3Ah, 12V3.2Ah, 12V3.3Ah, 12V3.4Ah, 12V3.8Ah, 12V4Ah, 12V4.2Ah, 12V4.5Ah, 12V4.8Ah, 12V5Ah, 12V5.2Ah, 12V5.4Ah, 12V5.5Ah, 12V5.8Ah, 12V6Ah, 12V6.2Ah,

**Model** : 12V6.5Ah, 12V6.8Ah, 12V7Ah, 12V7.1Ah, 12V7.2Ah, 12V7.5Ah, 12V7.7Ah, 12V7.8Ah, 12V8Ah, 12V8.1Ah, 12V8.2Ah, 12V8.5Ah, 12V9Ah, 12V9.1Ah, 12V9.5Ah, 12V10Ah, 12V10.5Ah, 12V11Ah, 12V12Ah, 12V12.5Ah, 12V13Ah, 12V13.5Ah, 12V14Ah, 12V15Ah, 12V17Ah, 12V18Ah, 12V19Ah, 12V20Ah, 12V21Ah, 12V22Ah, 12V24Ah, 12V25Ah, 12V26Ah, 12V27Ah, 12V28Ah, 12V30Ah, 12V31Ah, 12V32Ah, 12V33Ah, 12V34Ah, 12V35Ah, 12V36Ah, 12V38Ah, 12V39Ah, 12V40Ah, 12V42Ah, 12V44Ah, 12V45Ah, 12V48Ah, 12V50Ah, 12V52Ah, 12V55Ah, 12V60Ah, 12V65Ah, 12V70Ah, 12V72Ah, 12V75Ah, 12V80Ah, 12V85Ah, 12V90Ah, 12V95Ah, 12V100Ah, 12V102Ah, 12V105Ah, 12V110Ah, 12V120Ah, 12V130Ah, 12V134Ah, 12V135Ah, 12V150Ah, 12V160Ah, 12V170Ah, 12V180Ah, 12V200Ah, 12V210Ah, 12V220Ah, 12V250Ah,



12V260Ah,12V270Ah, 12V280Ah, 12V300Ah, 12V320Ah, 12V330Ah, 2V100Ah, 2V150Ah,2V200Ah, 2V250Ah, 2V300Ah, 2V350Ah, 2V400Ah, 2V450Ah,2V490Ah, 2V500Ah, 2V600Ah, 2V800Ah, 2V1000Ah, 2V1200Ah, 2V1500Ah, 2V2000Ah, 2V2500Ah, 2V3000Ah, FT12V50Ah, FT12V55Ah, FT12V65Ah,FT12V70Ah, FT12V75Ah, FT12V100Ah, FT12V105Ah, FT12V120Ah, FT12V150Ah, FT12V180Ah, FT12V200Ah, 6V100Ah, 6V150Ah, 6V180Ah, 6V200Ah,6V210Ah, 6V220Ah, 6V225Ah, 6V260Ah,6V300Ah, 6V315Ah, 6V360Ah,6V380Ah, 6V400Ah, 6V420Ah, 8V135Ah, 8V150Ah, 8V160Ah, 8V170Ah,8V180Ah, 6N4, 6N6, 12N2.5, YB3A, YTX4A, YTX5A, YTX6.5A, YTX7A, YTX7L, YTX9A, YTX12B, YTX14A, YTX20A, YTX20L, YTZ5S, YTZ5A, YTZ7S, YTZ10S, YTZ12S, 12N5L, 12N7L, 12N9L, 12N5, 12N7, 12N9, 12-88W, 11.38V5.8Ah, 24V1.2Ah, 24V1.3Ah, 24V3Ah, 24V3.6Ah, 24V4Ah, 24V5Ah,24V7Ah,24V12Ah, 24V24Ah, 36V12Ah,12.8V5Ah, 12.8V6Ah, 12.8V7Ah, 12.8V9Ah, 12.8V10Ah, 12.8V12Ah,12.8V18Ah, 12.8V20Ah, 12.8V24Ah, 12.8V33Ah, 12.8V35Ah, 12.8V40Ah,12.8V50Ah, 12.8V60Ah, 12.8V65Ah, 12.8V70Ah, 12.8V75Ah, 12.8V80Ah,12.8V90Ah, 12.8V100Ah, 12.8V120Ah, 12.8V150Ah, 12.8V200Ah, 12.8V250Ah, 25.6V25Ah, 25.6V50Ah, 25.6V100Ah, 48V50Ah, 48V100Ah, 48V200Ah

**Ratings** : 2V, 4Ah,

**TEL** : +39 02 251171

**Emergency contact person and number:**

**ELCART DISTRIBUTION SpA +39 02 251171**



## Section 2 – Composition/Information on Ingredient

Chemical Composition	CAS No.	Weight (%)
lead	7439-92-1	63%
lead Oxide	1309-60-0	28%
Electrolyte (Sulfuric acid)	7664-93-9	4%
ABS CASE	25155-30-0	3%
AGM Seperator	65997-17-3	2%
“ * ” The exact percentage (concentration) of composition has been withheld as a trade secret.		

## Section 3 - Hazards Identification

<b>Emergency overview:45</b>	N/A
<b>Classification according to GHS</b>	Not a dangerous substance according to GHS
<b>Label elements:</b>	
Hazard pictogram(s)	Not Available
Signal word	Not Available
Hazard statement(s)	Not Available
<b>Precautionary statement(s):</b>	
<b>Prevention:</b>	Not Available
<b>Response:</b>	Not Available
<b>Disposal:</b>	Not Available
<b>Environmental hazards:</b>	No relevant information
<b>Important symptoms:</b>	See section 11 for more information



## Section 4 - First Aid Measures

<b>Eye contact</b>	Flush eyes with plenty of water for least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
<b>Skin contact</b>	Remove contaminated clothes and rinse skin with plenty of water or shower for 15 minutes. Get medical aid.
<b>Inhalation</b>	Remove from exposure and move to fresh air immediately. Use oxygen if available.
<b>Ingestion</b>	Give at least 2 glasses of milk or water. Induce vomiting unless patient is unconscious. Call a physician.

## Section 5 - Fire Fighting Measures

<b>Flash Point</b>	N/A
<b>Auto-ignition Temperature</b>	N/A
<b>Extinguishing Media</b>	H2O, CO2
<b>Special Fire-Fighting Procedures</b>	Self-contained breathing apparatus
<b>Unusual Fire and Explosion Hazards</b>	Cell may vent when subjected to excessive heat-exposing battery contents
<b>Hazardous Combustion Products</b>	Carbon monoxide, carbon dioxide, lithium oxide fumes.



## Section 6-Accidental Release Measures

### **Personal precautions, protective equipment and emergency procedures:**

If the battery is released, remove personnel from area until fumes dissipate. Provide maximum ventilation to clear out hazardous gases. The preferred response is to leave the area and allow the vapors to dissipate. Avoid skin and eyes contact or inhalation of vapors. Remove spilled liquid with absorbent and incinerated. If leakage of the battery happens, liquid could be absorbed with sand, earth or other inert substance and contaminated area should be ventilated meantime.

### **Environment precautions:**

Do not allow product to reach sewage system or any water source.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

### **Methods and material for containment and cleaning up:**

If battery casing is dismantled, small amounts of electrolyte may leak. Collect all released material in a plastic lined container. Dispose off according to the local law and rules. Avoid leached substances to get into the earth, canalization or waters.



## Section 7. Handling and storage

<b>Handling</b>	<p>The battery should not be opened, destroyed or incinerate, since they may leak or rupture and release to the environment the ingredients that they contain in the hermetically sealed container.</p> <p>Do not short circuit terminals, or over charge the battery, forced over-discharge, throw to fire. Do not crush or puncture the battery, or immerse in liquids.</p>
<b>Storage</b>	<p>Avoid mechanical or electrical abuse. Storage preferably in cool, dry and ventilated area, which is subject to little temperature change. Storage at high temperatures should be avoided.</p> <p>Storage Do not place the battery near heating equipment, nor expose to direct sunlight for long periods.</p>
<b>Other Precautions</b>	<p>The battery may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity.</p>

## Section 8 - Exposure Controls, Personal Protection and labeling

<b>Engineering Controls:</b>	<p>Use local exhaust ventilation or other engineering controls to control sources of dust, mist, fumes and vapor Keep away from heat and open flame. Store in a cool, dry place.</p>
<b>Personal Protective Equipments:</b>	<p>Respiratory Protection: Not necessary under normal conditions.</p>



	Skin and body Protection: Not necessary under normal conditions, Wear suitable protective clothing and gloves if handling an open or leaking battery. Personal Protective Equipment Hand protection: Wear suitable gloves if handling an open or leaking battery. Eye Protection: Not necessary under normal conditions, Wear safety glasses if handling an open or leaking battery.
<b>Other Protective Equipment:</b>	Have a safety shower and eye wash fountain readily available in the immediate work area.
<b>Hygiene Measures:</b>	Do not eat, drink, or smoke in work area. Maintain good housekeeping.

## Section 9 - Physical and Chemical Properties/

<b>Form</b>	Solid
<b>Color</b>	Black
<b>Odour</b>	Not Available
<b>Ph/pH</b>	Not Available
<b>Melting point/freezing point</b>	Not Available
<b>Boiling Point and Boiling range</b>	Not Available
<b>Flash Point</b>	Not Available
<b>Upper/lower flammability or explosive limits</b>	Not Available
<b>Vapor Pressure</b>	Not Available
<b>Vapor Density</b>	Not Available
<b>Relative density</b>	Not Available
<b>Solubility in Water</b>	Not Available
<b>Auto-ignition temperature</b>	Not Available
<b>Decomposition temperature</b>	Not Available





<b>Evaporation rate</b>	Not Available
<b>Flammability (soil, gas)</b>	Not Available
<b>Viscosity</b>	Not Available

## Section 10 - Stability and Reactivity/

<b>Stability</b>	The product is stable under conditions described Section 7
<b>Conditions to Avoid</b>	Heat above 70°C or incinerate. Deform, Mutilate, Crush, Disassemble, Overcharge, Short circuit, Expose over a long period to humid conditions.
<b>Incompatible Materials</b>	Oxidizing agents, acid, base.
<b>Hazardous Decomposition Products</b>	Carbon monoxide, carbon dioxide, lithium oxide fumes.
<b>Possibility of Hazardous Reaction</b>	Not Available

## Section 11 - Toxicological Information/

<b>Irritation</b>	Risk of irritation occurs only if the cell is mechanically, thermally or electrically abused to the point of compromising the enclosure. If this occurs, irritation to the skin, eyes and respiratory tract may occur.
<b>Sensitization</b>	Not Available



<b>Neurological Effects</b>	Not Available
<b>Teratogenicity</b>	Not Available
<b>Reproductive Toxicity</b>	Not Available
<b>Mutagenicity (Genetic Effects)</b>	Not Available
<b>Toxicologically Synergistic Materials</b>	Not Available

## Section 12 - Ecological Information

<b>Ecological Toxicity</b>	Not Available
<b>Mobility in soil</b>	Not Available
<b>Persistence and Degradability</b>	Not Available
<b>Bioaccumulation potential</b>	Not Available
<b>Other Adverse Effects</b>	Not Available

## Section 13 - Disposal Considerations/

<b>Product disposal recommendation</b>	Observe local, state and federal laws and regulations.
<b>Uncleaned packaging recommendation</b>	Disposal must be made according to official regulations



## Section 14 - Transport Information

<b>Label for conveyance</b>	N/A
<b>Packing group</b>	--
<b>Marine pollutant</b>	No
<b>UN Proper shipping name</b>	Wet Batteries , non-spillable
<b>UN Identification</b>	UN2800

### Transport information:

This goods shall be considered Not Restricted Goods and need to be complied with the requirements of Packing Instruction 872 of special provision A67 of 64th DGR Manual of IATA or special provision 238 of IMDG CODE (Amdt. 40-20).

The words "Not Restricted" and the Special Provision number must be included in the description of the substance on the Air or Sea Waybill.

**Transport Fashion:** By air, by sea, by railway, by road.

## Section 15 - Regulatory Information

### Law information:

- 《Dangerous Goods Regulations》
- 《Recommendation on the Transport of Dangerous Goods Model Regulations》
- 《International Maritime Dangerous Goods》
- 《Technical Instructions for the Safe Transport of Dangerous Goods》
- 《Classification and code of dangerous Goods》
- 《Occupational Safety and Health Act》 (OSHA)
- 《Toxic Substance Control Act》 (TSCA)
- 《Consumer Product Safety Act》 (CPSA)



《Federal Environmental Pollution Control Act》 (FEPCA)  
《The Oil Pollution Act》 (OPA)  
《Superfund Amendments and Reauthorization Act Title III(302/311/312/313)》 (SARA)  
《Resource Conservation and Recovery Act》 (RCRA)  
《Safety Drinking Water Act》 (CWA)  
《California Proposition 65》  
《Code of Federal Regulations》 (CFR)  
In according with all Federal, State and local laws.

## Section 16 - Additional Information

The information above is believed to be accurate and represents the best information currently available to us. However, concord makes 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. Although reasonable precautions have been taken in the preparation of the data contained herein, it is offered solely for your information, consideration and investigation. This material safety data sheet provides guidelines for the safe handling and use of this product; it does not and cannot advise on all possible situations, therefore, your specific use of this product should be evaluated to determine if additional precautions are required.

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