

## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 08.04.2016

FDS 17109 Version 4

Revision: 18.04.2018

### SECTION 1: Identification of the substance/mixture and of the company/ undertaking

- 1.1 Product identifier
- Trade name: **All Li Ion Rechargeable Battery Equipments – 9.25Wh**
- 1.2 Relevant identified uses of the substance or mixture and uses advised against  
No further relevant information available.
- Application of the substance / the preparation : LiPo battery
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:  
SATELEC  
Z.I. du Phare – 17 avenue Gustave Eiffel  
33700 MERIGNAC - FRANCE  
Tel: + 33 (0)5 56.34.06.07  
Fax :+ 33 (0)5 56.34.92.92  
Email :myriam.delaval@acteongroup.com
- 1.4 Emergency telephone number:  
France (ORFILA 24h/24) - Tel : +33 (0)1 45 42 59 59  
Ireland - Tel : 00 353 1 8092568 - 00 353 1 8379964 (24h/24) EU Tel: 112  
Belgique - Tel : 32 070/245 245  
UK : +44 (0)-870-190-6777 (CARECHEM24)

### SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008 :  
The product is not classified according to the CLP regulation.
- 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008 Not classified as hazardous
- Hazard pictograms Not classified as hazardous
- Signal word Not classified as hazardous
- Hazard statements Not classified as hazardous
- 2.3 Other hazards  
Do not short circuit, puncture, incinerate, crush, immerse, force discharge or expose to temperatures above 100°C. Risk of fire or explosion. The rechargeable lithium batteries described in this Product Safety Data Sheet are sealed units which are not hazardous. when used according to the recommendations of the manufacturer. Under normal conditions of use, the electrode materials and the electrolyte they contain are not exposed to the outside, provided the battery integrity is maintained and seals remain intact. Risk of exposure only in case of abuse (mechanical, thermal, electrical) which leads to the activation of safety valves and/or the rupture of the battery container. Electrolyte leakage, electrode materials reaction with moisture/water or battery vent/explosion/fire may follow, depending upon the circumstances.
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

### SECTION 3: Composition/information on ingredients

- 3.2 Chemical characterisation: Mixtures
- Description: Solid battery composed by :

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· Dangerous components:		
CAS: 7440-43-9 EINECS: 231-152-8 Index number: 048-002-00-0 RTECS: EU 9800000 Reg.nr.: 01-2119489023-40-XXXX	cadmium (non-pyrophoric) substance with a Community workplace exposure limit	≤1%
CAS: 7439-92-1 EINECS: 231-100-4 RTECS: OF 7525000	lead ⚠ Repr. 1A, H360Df; STOT RE 2, H373; ⚠ Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332	<0.1%
CAS: 7439-97-6 EINECS: 231-106-7 Index number: 080-001-00-0 RTECS: OV 4550000	mercury ⚠ Acute Tox. 2, H330; ⚠ Repr. 1B, H360D; STOT RE 1, H372; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.1%
· SVHC		
7440-43-9	cadmium (non-pyrophoric)	

· Additional information: For the wording of the listed risk phrases, refer to section 16.

**SECTION 4: First aid measures**

- 4.1 Description of first aid measures
- General information:  
No special measures required.  
in other cases, refer to chapters: 5,6,7,8.
- After excessive inhalation:  
in case of rupture of the battery :  
Provide fresh air; consult a doctor in case of medical complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact:  
in case of rupture of the battery :  
Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult a doctor.
- 4.2 Most important symptoms and effects, both acute and delayed :  
No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed :  
No further relevant information available.

**SECTION 5: Firefighting measures**

- 5.1 Suitable extinguishing agents:  
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- 5.2 Special hazards arising from the substance or mixture :  
Under certain fire conditions, traces of other toxic gases cannot be excluded.
- 5.3 Advice for firefighters
- Protective equipment:  
in case of rupture of the battery :  
Wear fully protective suit.

**SECTION 6: Accidental release measures**

- 6.1 Personal precautions, protective equipment and emergency procedures :  
in case of rupture of the battery :  
Remove persons from the danger area.

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Keep what away from ignition sources.

- 6.2 Environmental precautions: Do not allow product to reach sewage system or any water course.
- 6.3 Methods and material for containment and cleaning up: Pick up mechanically.
- 6.4 Reference to other sections :  
 See Section 7 for information on safe handling.  
 See Section 8 for information on personal protective equipment.  
 See Section 13 for disposal information.

**SECTION 7: Handling and storage**

- 7.1 Precautions for safe handling : No special measures required.
- Information about fire - and explosion protection:



Keep ignition sources away - Do not smoke.

Protect from heat.

- 7.2 Conditions for safe storage, including any incompatibilities
- Storage:  
 Requirements to be met by storerooms and receptacles: Store in a cool location.
- Information about storage in one common storage facility:  
 Do not store together with oxidising and acidic materials.
- Further information about storage conditions:  
 Protect from humidity and water.  
 Protect from heat and direct sunlight.  
 Protect from frost.
- Maximum storage temperature: 50°C
- Minimum storage temperature: 5°C
- 7.3 Specific end use(s) : No further relevant information available.

**SECTION 8: Exposure controls/personal protection**

- Additional information about design of technical facilities: No further data; see section 7.
- 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

**7440-43-9 cadmium (non-pyrophoric) (≤1%)**

WEL (Great Britain)	Long-term value: 0.025 mg/m <sup>3</sup> as Cd, Carc
MAK (Switzerland)	Long-term value: 0.015e mg/m <sup>3</sup> H B C <sub>2</sub> M <sub>3</sub> Rf <sub>3</sub> Re <sub>3</sub> ;als Cd berechnet

· Ingredients with biological limit values:

**7440-43-9 cadmium (non-pyrophoric) (≤1%)**

BAT (Switzerland)	5 µg/g Kreatinin Medium: U Sampling time: a Parameter: Cadmium
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- Additional information:  
 The most current valid lists have been used as a basis for the production of this document.

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- 8.2 Exposure controls
  - Personal protective equipment:
  - General protective and hygienic measures:  
The usual precautionary measures are to be adhered to when handling chemicals.
  - Respiratory protection: Not required.
  - Protection of hands: Not required.
  - Gloves material : -
  - Eye protection: Not required.
  - Body protection:  
In case of rupture of the battery :  
Use protective suit.
- 

### SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties	
- General Information	
- Appearance:	
Form:	Solid
Colour:	According to product specification
- Odour:	Characteristic
- Change in condition	
Melting point/Melting range: Undetermined.	
Boiling point/Boiling range: Undetermined.	
- Flash point:	Not applicable.
- Ignition temperature:	Not applicable.
- Self-igniting:	Product is not self igniting.
- Danger of explosion:	Heating may cause an explosion.
- Density:	Not determined.
- Solubility in / Miscibility with water:	Insoluble.
- 9.2 Other information :	No further relevant information available.

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### SECTION 10: Stability and reactivity

- 10.1 Reactivity No further relevant information available.
  - 10.2 Chemical stability
  - Thermal decomposition / conditions to be avoided:  
No decomposition if used according to specifications.  
To avoid thermal decomposition do not overheat.  
Stable at environment temperature.
  - 10.3 Possibility of hazardous reactions :  
in case of rupture of the battery :  
Forms heat.
  - 10.4 Conditions to avoid : No further relevant information available.
  - 10.5 Incompatible materials: No further relevant information available.
  - 10.6 Hazardous decomposition products: Lithium
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**SECTION 11: Toxicological information**

- 11.1 Information on toxicological effects
- Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

<b>7440-43-9 cadmium (non-pyrophoric)</b>		
Oral	LD50	225 mg/kg (rat)
<b>7439-92-1 lead</b>		
Oral	LD50	500 mg/kg (ATE)
Inhalative	LC50/4 h	1.5 mg/l (ATE)
<b>7439-97-6 mercury</b>		
Oral	LD50	6 mg/kg (mouse) 1 mg/kg (rat)
Dermal	LD50	41 mg/kg (rat)
Inhalative	LC50/4 h	0.05 mg/l (ATE)

- Primary irritant effect:
- On the skin: Irritation possible spill
- On the eyes: Irritation possible spill
- Respiratory or skin sensitization Based on available data, the classification criteria are not met.
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information**

- 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability : No further relevant information available.
- 12.3 Bioaccumulative potential : No further relevant information available.
- 12.4 Mobility in soil : No further relevant information available.
- Additional ecological information:
- General notes: Generally not hazardous for water.
- 12.5 Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.
- 12.6 Other adverse effects : No further relevant information available.

**SECTION 13: Disposal considerations**

- 13.1 Waste treatment methods
- Recommendation : Contact waste processors for recycling information.
- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

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**SECTION 14: Transport information**

<ul style="list-style-type: none"> <li>· 14.1 UN-Number</li> <li>· ADR, IMDG, IATA</li> </ul>	<p>UN3480</p>
<ul style="list-style-type: none"> <li>· 14.2 UN proper shipping name</li> <li>· ADR</li> <li>· IMDG, IATA</li> </ul>	<p>UN3480 LITHIUM ION BATTERIES LITHIUM ION BATTERIES</p>
<ul style="list-style-type: none"> <li>· 14.3 Transport hazard class(es)</li> <li>· ADR</li> </ul>	<div style="text-align: center;">  </div> <p>9 (M4) Miscellaneous dangerous substances and articles. 9</p>
<ul style="list-style-type: none"> <li>· IMDG, IATA</li> </ul>	<div style="text-align: center;">  </div> <p>9 Miscellaneous dangerous substances and articles. 9</p>
<ul style="list-style-type: none"> <li>· 14.4 Packing group</li> <li>· ADR, IMDG, IATA</li> </ul>	<p>Void</p>
<ul style="list-style-type: none"> <li>· 14.5 Environmental hazards:</li> <li>· Marine pollutant:</li> <li>· Special marking (IATA):</li> </ul>	<p>No PI: 965 Section IB , Section II if Qty &lt;3, IMP: RLI Limit per package: Pax A/C : Forbidden CAO = 10Kg</p>
<ul style="list-style-type: none"> <li>· 14.6 Special precautions for user</li> <li>· EMS Number:</li> <li>· Stowage Category</li> <li>· Stowage Code</li> </ul>	<p>Warning: Miscellaneous dangerous substances and articles. F-A,S-I A SW19 For batteries transported in accordance with SP 376 or SP 377 Category C, unless transported on a short international voyage.</p>
<ul style="list-style-type: none"> <li>· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</li> </ul>	<p>Not applicable.</p>

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· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	0
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· Transport category	2
· Tunnel restriction code	E
· IMDG	
· Limited quantities (LQ)	0
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· UN "Model Regulation":	UN 3480 LITHIUM ION BATTERIES, 9

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### SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
  - Directive 2012/18/EU
  - Named dangerous substances - ANNEX I None of the ingredients is listed.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

*15.3 This battery is of the type proven to meet the requirements of each test in the UN Manual of Tests and Criteria Part III subsection 38.3.*

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### SECTION 16: Other information

*Battery weight : 48g*

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Relevant phrases
  - H302 Harmful if swallowed.
  - H330 Fatal if inhaled.
  - H332 Harmful if inhaled.
  - H360D May damage the unborn child.
  - H360Df May damage the unborn child. Suspected of damaging fertility.
  - H372 Causes damage to organs through prolonged or repeated exposure.
  - H373 May cause damage to organs through prolonged or repeated exposure.
  - H400 Very toxic to aquatic life.
  - H410 Very toxic to aquatic life with long lasting effects.

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- Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
SVHC: Substances of Very High Concern  
vPvB: very Persistent and very Bioaccumulative  
Acute Tox. 4: Acute toxicity, Hazard Category 4  
Acute Tox. 2: Acute toxicity, Hazard Category 2  
Repr. 1A: Reproductive toxicity, Hazard Category 1A  
Repr. 1B: Reproductive toxicity, Hazard Category 1B  
STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1  
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2  
Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1  
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1