

Safety Data Sheet (SDS)

OSHA Haz Com Standard 29 CFR 1910.1200. Prepared to GHS Rev03.

Printing date 01/09/2014

Reviewed on 01/09/2014

* 1 Identification

- **Product identifier**
- **Trade name:** VRLA "Rechargeable Sealed lead Acid Battery"
- **Product description** Hard Plastic Shell – Used for Electronics Applications
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Baccus Global, LLC.
595 South Federal Hwy.
Boca Raton, FL 33432
561-367-3750
www.baccusglobal.com
- **Emergency telephone number:** Chemtrec 800-424-9300 or outside USA 703-527-3887

* 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS06 Skull and crossbones

Acute Tox. 1 H300 Fatal if swallowed.



GHS08 Health hazard

Repr. 1A H360 May damage fertility or the unborn child.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS05 Corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

- **Additional information:**

As a solid manufactured article, exposure to hazardous ingredients is not expected with normal use. This battery is an article pursuant to 29 CFR 1910.1200 and as such is not subject to the OSHA Hazard Communication Standard requirements. The information contained in this material safety data sheet contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS05



GHS06



GHS08

- **Signal word** Danger

- **Hazard-determining components of labeling:**

lead

sulphuric acid

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• **Hazard statements**

- H300 Fatal if swallowed.
- H314 Causes severe skin burns and eye damage.
- H360 May damage fertility or the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure.

• **Precautionary statements**

- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P281 Use personal protective equipment as required.
- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a POISON CENTER or doctor/physician.
- P321 Specific treatment (see on this label).
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P363 Wash contaminated clothing before reuse.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

• **Hazard description:**

This product is includes both 6 and 12 volt sealed rechargeable lead acid batteries.
Health Hazards: Not dangerous with normal use. This battery should not be opened or burned. Exposure to the ingredients contained within or their combustion products could be harmful.

These chemicals are contained in a sealed enclosure. Risk of exposure occurs only if the cell is mechanically, thermally or electrically abused to the point of compromising the enclosure. If this occurs, exposure to the electrolyte solution contained within can occur by inhalation, ingestion, eye contact and skin contact.

• **Classification system:**

• **NFPA ratings (scale 0 - 4)**



• **HMIS-ratings (scale 0 - 4)**

HEALTH	0	Health = 0
FIRE	0	Fire = 0
REACTIVITY	0	Reactivity = 0

* 3 Composition/information on ingredients

• **Chemical characterization: Mixtures**

• **Description:** Mixture of the substances listed below with nonhazardous additions.

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• Dangerous components:		
7439-92-1	lead ⚠ Acute Tox. 1, H300; ⚠ Repr. 1A, H360; STOT RE 2, H373	60-90%
7664-93-9	sulphuric acid ⚠ Skin Corr. 1A, H314	15-35%

* 4 First-aid measures

• Description of first aid measures

These chemicals are contained in a sealed enclosure. Risk of exposure occurs only if the cell is mechanically, thermally or electrically abused to the point of compromising the enclosure. If this occurs, exposure to the electrolyte solution contained within can occur by inhalation, ingestion, eye contact and skin contact.

If the contents of an opened battery contacts skin, eyes, are ingested or are inhaled, GET MEDICAL ATTENTION IMMEDIATELY.

• General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

In case of irregular breathing or respiratory arrest provide artificial respiration.

• After inhalation:

In case of unconsciousness, place patient securely in side position for transportation.

Inhalation of materials from a sealed battery is not an expected route of exposure. Vapors or mists from a ruptured battery may cause respiratory irritation.

• After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Contact between the battery and skin will not cause any harm. Skin contact with contents of an open battery can cause burns to the skin.

• After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

Contact between the battery and the eye will not cause any harm. Eye contact with contents of an open battery can cause burns to the eye.

• After swallowing:

Do not induce vomiting; immediately call for medical help.

Drink copious amounts of water and provide fresh air. Immediately call a doctor.

Swallowing of materials from a sealed battery is not an expected route of exposure. Swallowing the contents of an open battery can cause serious chemical burns of mouth, esophagus, and gastrointestinal tract and could be fatal.

• Most important symptoms and effects, both acute and delayed

No further relevant information available.

• Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

• Extinguishing media

• Suitable extinguishing agents:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

• Special hazards arising from the substance or mixture

No further relevant information available.

• Advice for firefighters

• Protective equipment:

No special measures required.

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* 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

- **Environmental precautions:**

Dilute with plenty of water.

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

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

Absorb with liquid-binding material (ie. sand, diatomite, acid binders, universal binders, sawdust).

Use neutralizing agent.

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

- **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

* 7 Handling and storage

- **Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

- **Information about protection against explosions and fires:** Keep protective respiratory device available.

- **Conditions for safe storage, including any incompatibilities**

- **Storage:**

- **Requirements to be met by storerooms and receptacles:** No special requirements.

- **Information about storage in one common storage facility:** Not required.

- **Further information about storage conditions:** Store in dry conditions.

- **Specific end use(s)** No further relevant information available.

* 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see section 7.

- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

7664-93-9 sulphuric acid

PEL Long-term value: 1 mg/m³

REL Long-term value: 1 mg/m³

TLV Long-term value: 0.2* mg/m³

*as thoracic fraction

- **Additional information:** The lists that were valid during the creation were used as basis.

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:** Not necessary under normal conditions.

- **Breathing equipment:** Not necessary under normal conditions.

- **Protection of hands:** Not necessary under normal conditions.

- **Eye protection:** Not necessary under normal conditions.

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* 9 Physical and chemical properties

• **Information on basic physical and chemical properties**

• **General Information**

• **Appearance:**

Form:

Plastic shell

Color:

See product specification

• **Odor:**

Odorless

• **Odour threshold:**

Not determined.

• **pH-value:**

Not determined.

• **Change in condition**

Melting point/Melting range:

Not determined.

Boiling point/Boiling range:

Undetermined.

• **Flash point:**

Not applicable.

• **Flammability (solid, gaseous):**

Not applicable.

• **Ignition temperature:**

Decomposition temperature:

Not determined.

• **Auto igniting:**

Product is not selfigniting.

• **Danger of explosion:**

Product does not present an explosion hazard.

• **Explosion limits:**

Lower:

Not determined.

Upper:

Not determined.

• **Vapor pressure:**

Not determined.

• **Density:**

Not determined.

• **Relative density**

Not determined.

• **Vapour density**

Not determined.

• **Evaporation rate**

Not determined.

• **Solubility in / Miscibility with**

Water:

Fully miscible.

• **Partition coefficient (n-octanol/water):** Not determined.

• **Viscosity:**

Dynamic:

Not determined.

Kinematic:

Not determined.

• **Solvent content:**

Organic solvents:

0.0 %

Solids content:

70.0 %

• **Other information**

No further relevant information available.

10 Stability and reactivity

• **Reactivity** No further relevant information available.

• **Chemical stability**

• **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

• **Possibility of hazardous reactions** No dangerous reactions known.

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- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

* 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** Strong caustic effect on skin and mucous membranes.
- **on the eye:** Corrosive effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Corrosive
Very toxic
Swallowing will lead to a corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach.

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

7439-92-1	lead	2B
7664-93-9	sulphuric acid	1

- **NTP (National Toxicology Program)**

7439-92-1	lead	R
7664-93-9	sulphuric acid	K

* 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 3 (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Must not reach bodies of water or drainage ditch undiluted or unneutralized.
Danger to drinking water if even extremely small quantities leak into the ground.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

* 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

* 14 Transport information

- **UN-Number**
- **DOT, ADR, ADN, IMDG, IATA** Non-Regulated Material
- **UN proper shipping name**
- **DOT, ADR, ADN, IMDG, IATA** Non-Regulated Material
- **Transport hazard class(es)**
- **DOT, ADR, ADN, IMDG, IATA**
- **Class** Non-Regulated Material
- **Packing group**
- **DOT, ADR, IMDG, IATA** Non-Regulated Material
- **Environmental hazards:**
- **Marine pollutant:** No
- **Special precautions for user** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **Transport/Additional information:**
- **DOT** "NON-SPILLABLE" per 49 CFR 173.159 (f).
- **ADR** "NON-SPILLABLE".
New and spent batteries are exempt from all ADR/RID (special provision 598).
- **IMDG** If "NON-SPILLABLE" batteries meet the Special Provision 238.1 and 238.2, they are exempted from all IMDG codes provided that the batteries' terminals are protected against short circuits.
- **IATA** If "NON-SPILLABLE" batteries meet the Special Provision A48, A67, A164, A183, they are exempted from all IATA DGR codes provided that the batteries' terminals are protected against short circuits.

Not restricted.
Packing Instruction 872.
- **UN "Model Regulation":** -

* 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

• **Section 355 (extremely hazardous substances):**

7664-93-9 sulphuric acid

• **Section 313 (Specific toxic chemical listings):**

All ingredients are listed.

• **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

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• **Proposition 65**

• **Chemicals known to cause cancer:**

7439-92-1 lead

• **Chemicals known to cause reproductive toxicity for females:**

7439-92-1 lead

• **Chemicals known to cause reproductive toxicity for males:**

7439-92-1 lead

• **Chemicals known to cause developmental toxicity:**

7439-92-1 lead

• **Carcinogenic categories**

• **EPA (Environmental Protection Agency)**

7439-92-1 lead

B2

• **TLV (Threshold Limit Value established by ACGIH)**

7439-92-1 lead

A3

7664-93-9 sulphuric acid

A2

• **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

• **OSHA-Ca (Occupational Safety & Health Administration)**

Corrosive to eyes

• **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

• **Hazard pictograms**



GHS05 GHS06 GHS08

• **Signal word** Danger

• **Hazard-determining components of labeling:**

lead

sulphuric acid

• **Hazard statements**

H300 Fatal if swallowed.

H314 Causes severe skin burns and eye damage.

H360 May damage fertility or the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

• **Precautionary statements**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P281 Use personal protective equipment as required.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.
P321 Specific treatment (see on this label).
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P363 Wash contaminated clothing before reuse.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

• **National regulations:**

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

• **State Right to Know**

7439-92-1	lead	60-90%
	☠ Acute Tox. 1, H300; ☠ Repr. 1A, H360; STOT RE 2, H373	
7664-93-9	sulphuric acid	15-35%
	☠ Skin Corr. 1A, H314	

None of the ingredients is listed.

• **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

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.

• **Date of preparation / last revision** 01/09/2014 / 3

• **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
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
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)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)

• *** Data compared to the previous version altered.**

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