

**Product Information Sheet**  
in approximation to 1907/2006/EC, Article 31

Printing date 21.09.2017

Version number 1

Revision: 21.09.2017

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

**1.1 Product identifier**

**Trade name:** STARTER BATTERY

**Article number:** Please check [www.vdo.com](http://www.vdo.com)

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

**Article category** AC3 Electrical batteries and accumulators

**Application of the substance / the mixture**

It is an article, for which no Safety Data Sheet is required (Regulation 1907/2006 / REACH Art. 31).  
Hereby the relevant notes for handling are presented.

**1.3 Details of the supplier of the safety data sheet**

**Manufacturer/Supplier:**  
Continental Trading GmbH  
Sodener Strasse 9  
65824 Schwalbach a. Ts.  
+49-6196-87-0

**Further information obtainable from:** [hotline@vdo.com](mailto:hotline@vdo.com)

**1.4 Emergency telephone number:** +49-6132-84463

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008**

This product does not fulfil the criteria for classification into any hazardous category according to Regulation 1272/2008/EC on classification, labelling and packaging of substances and mixtures. The direct contact to hazardous components is only possible, if the battery container is damaged. The product / the compound is not classified according to the CLP regulation.

**2.2 Label elements**

**Labelling according to Regulation (EC) No 1272/2008**

This product does not fulfil the criteria for classification into any hazardous category according to Regulation 1272/2008/EC on classification, labelling and packaging of substances and mixtures.

**Hazard pictograms** Void

**Signal word** Void

**Hazard statements** Void

**2.3 Other hazards**

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**SECTION 3: Composition/information on ingredients**

**3.2 Chemical characterisation: Mixtures**

**Description:**

No hazards occur during the normal operation of a STARTER BATTERY as it is posing no chemical risk, as long as the regulations regarding handling, storing, transportation and using are followed.

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**Dangerous components:**

|                                     |   |        |
|-------------------------------------|---|--------|
| CAS: 7439-92-1<br>EINECS: 231-100-4 | lead massive [particle diameter $\geq$ 1 mm]<br>Repr. 1A, H360FD-H362; Acute Tox. 4, H302; Acute Tox. 4, H332 | 50-75% |
| CAS: 7664-93-9<br>EINECS: 231-639-5 | sulphuric acid<br>Skin Corr. 1A, H314   | 25-50% |

**Additional information:**

During the charging process hydrogen and oxygen gases may develop, which under certain circumstances may result in an explosive mixture.

The composition of the battery can vary depending on the performance data.

The specific density of the electrolyte varies in dependence of the state of charging from battery.

For the wording of the listed hazard phrases refer to section 16.

**SECTION 4: First aid measures****4.1 Description of first aid measures**

**General information:** Immediately remove any clothing soiled by the product.

**After inhalation:**

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

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

**After skin contact:** Immediately wash with water and soap and rinse thoroughly.

**After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

**After swallowing:**

Administer medicinal carbon.

Do not induce vomiting.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

**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 Extinguishing media****Suitable extinguishing agents:**

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire extinguishing methods suitable to surrounding conditions.

**5.2 Special hazards arising from the substance or mixture**

In case of fire, the following can be released: CO, CO<sub>2</sub>, NO<sub>x</sub>, SO<sub>2</sub>, carbon black, pyrolysis products

**5.3 Advice for firefighters****Protective equipment:**

Mouth respiratory protective device.

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

**6.2 Environmental precautions:** Do not allow to penetrate the ground/soil.

**6.3 Methods and material for containment and cleaning up:** Use neutralising agent.

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**6.4 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.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling** Protect battery poles from short circuit!**Information about fire - and explosion protection:** Keep respiratory protective device available.**7.2 Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:**

Do not store outdoors.

Recommended storage temperature: 5-30 °C

Recommended humidity: &lt; 80 %

Protect against solar radiation and light.

**Information about storage in one common storage facility:** Not required.**Further information about storage conditions:** Keep container tightly sealed.**7.3 Specific end use(s)** No further relevant information available.**SECTION 8: Exposure controls/personal protection****Additional information about design of technical facilities:**

During normal conditions of use exposure to lead is not possible.

Exposure to sulphuric acid and acid mist might occur during filling and charging.

**8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:****7664-93-9 sulphuric acid**

|                     |   |
|---------------------|---|
| IOELV (EU)          | Long-term value: 0.05 mg/m <sup>3</sup>   |
| AGW (Germany)       | Long-term value: 0.1 E mg/m <sup>3</sup><br>1(I);DFG, EU, Y                     |
| WEL (Great Britain) | Long-term value: 0.05* mg/m <sup>3</sup><br>*mist: defined as thoracic fraction |

**8.2 Exposure controls****Personal protective equipment:****General protective and hygienic measures:**

During normal conditions of use no personal protection measures are needed.

**Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

**Protection of hands:**

Solvent resistant gloves made of: Fluorine rubber.



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:**

Tightly sealed goggles

**Limitation and supervision of exposure into the environment**

See section 6 and 7. No additional measures necessary.

## SECTION 9: Physical and chemical properties

**9.1 Information on basic physical and chemical properties****General Information****Appearance:**

|                         |                 |
|-------------------------|-----------------|
| <b>Form:</b>            | Solid           |
| <b>Colour:</b>          | Grey            |
| <b>Odour:</b>           | Odourless       |
| <b>Odour threshold:</b> | Not determined. |

**pH-value:** Not applicable.

**Change in condition**

|   |               |
|---|---------------|
| <b>Melting point/freezing point:</b>            | Undetermined. |
| <b>Initial boiling point and boiling range:</b> | Undetermined. |

**Flash point:** Not applicable.

**Flammability (solid, gas):** Not determined.

**Ignition temperature:**

**Decomposition temperature:** Not determined.

**Auto-ignition temperature:** Product is not selfigniting.

**Explosive properties:** Product does not present an explosion hazard.

**Explosion limits:**

|               |                 |
|---------------|-----------------|
| <b>Lower:</b> | Not determined. |
| <b>Upper:</b> | Not determined. |

**Vapour pressure:** Not applicable.

|                         |                 |
|-------------------------|-----------------|
| <b>Density:</b>         | Not determined. |
| <b>Relative density</b> | Not determined. |
| <b>Vapour density</b>   | Not applicable. |
| <b>Evaporation rate</b> | Not applicable. |
| <b>water:</b>           | Insoluble.      |

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

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**Viscosity:****Dynamic:**

Not applicable.

**Kinematic:**

Not applicable.

**9.2 Other information**

No further relevant information available.

**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.

**10.3 Possibility of hazardous reactions** No dangerous reactions known.**10.4 Conditions to avoid** No further relevant information available.**10.5 Incompatible materials:** Strong oxidizing agents**10.6 Hazardous decomposition products:** No dangerous decomposition products known.**SECTION 11: Toxicological information****11.1 Information on toxicological effects** This information does not apply to the undamaged product.**Acute toxicity** Based on available data, the classification criteria are not met.**LD/LC50 values relevant for classification:****ATE (Acute Toxicity Estimates)**

|            |                         |           |
|------------|-------------------------|-----------|
| Oral       | LD50                    | 156 mg/kg |
| Inhalative | LC50 (Stäube und Nebel) | 2.34 mg/l |

**Primary irritant effect:****Skin corrosion/irritation** Based on available data, the classification criteria are not met.**Serious eye damage/irritation** Based on available data, the classification criteria are not met.**Respiratory or skin sensitisation** 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:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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Must not reach sewage water or drainage ditch undiluted or unneutralised.

**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**

Waste disposal according EC-regulations 75/442/EEC and 91/689/EEC in the corresponding versions, covering waste and dangerous waste.

**Pb****Recommendation** Dispose of according to national legislation.**European waste catalogue**

|           |  |
|-----------|--|
| 16 00 00  | WASTES NOT OTHERWISE SPECIFIED IN THE LIST |
| 16 06 00  | batteries and accumulators                 |
| 16 06 01* | lead batteries                             |

**Uncleaned packaging:****Recommendation:** Not applicable.**SECTION 14: Transport information****14.1 UN-Number****IMDG, IATA**

UN2794

**14.2 UN proper shipping name****IMDG, IATA**

BATTERIES, WET, FILLED WITH ACID

**14.3 Transport hazard class(es)****IMDG, IATA****Class**

8 Corrosive substances.

**14.4 Packing group****ADR**

Void

**IMDG, IATA**

III

**14.5 Environmental hazards:****Special marking (ADR):**

According to Special Provision 598 are new and spent batteries exempt from ADR/RID.

**14.6 Special precautions for user**

Not applicable.

**EMS Number:**

F-A,S-B

**Segregation groups**

Acids

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|  |  |
|--|--|
| <b>Stowage Category</b>  | A  |
| <b>Stowage Code</b>  | SW16 For unit loads in open cargo transport units, stowage category B. |
| <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b> | Not applicable.  |
| <b>UN "Model Regulation":</b>  | Void   |

**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** Keiner der Inhaltsstoffe ist enthalten.

**REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 63

**National regulations:**

**Information about limitation of use:**

Employment restrictions concerning pregnant and lactating women must be observed.

**Other regulations, limitations and prohibitive regulations**

Directive 2006/66/EC on batteries and accumulators and waste batteries and accumulators

Directive 2002/96/EC on waste electrical and electronic equipment (WEEE)

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

**SECTION 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.

**Relevant phrases**

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H332 Harmful if inhaled.

H360FD May damage fertility. May damage the unborn child.

H362 May cause harm to breast-fed children.

**Recommended restriction of use** For industrial purposes only.

**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

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Repr. 1A: Reproductive toxicity – Category 1A

**Sources**

<http://echa.europa.eu/information-on-chemicals/cl-inventory>

<http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances>

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[http://www.reach-clp-biozid-helpdesk.de/de/Downloads/CLP-VO/CLP\\_VO\\_Anhang\\_VI\\_Tabelle\\_3\\_2.pdf](http://www.reach-clp-biozid-helpdesk.de/de/Downloads/CLP-VO/CLP_VO_Anhang_VI_Tabelle_3_2.pdf)

<http://www.safeworkaustralia.gov.au/>

\* Data compared to the previous version altered.

— EU —