

**Trade name:** Valve Regulated Lead-Acid (VRLA) Industrial Battery**Current version :** 6.0.0, issued: 24.10.2022**Replaced version:** 5.0.0, issued: 12.04.2021**Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name****Valve Regulated Lead-Acid (VRLA) Industrial Battery****1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**  
battery**Uses advised against**  
No data available.**1.3 Details of the supplier of the safety data sheet****Address**Eppendorf SE  
Barkhausenweg 1  
D-22339 Hamburg

Telephone no. +49 40 53801-0

**Information provided by / telephone**

email: certificates@eppendorf.com

**Advice on Safety Data Sheet**

sdb\_info@umco.de

**1.4 Emergency telephone number**For medical advice (in German and English):  
+49 (0)551 192 40 (Giftinformationszentrum Nord)**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification information**

This product is an article in the sense of Article 3 of Regulation (EC) 1907/2006 (REACH) and is not subject to labelling according to Article 1, Regulation (EC) 1272/2008 (CLP).

Provision of a safety data sheet is not mandatory for articles according to Article 31 of Regulation (EC) 1907/2006 (REACH) and is done on a voluntary basis.

**2.2 Label elements**

Not relevant

**2.3 Other hazards**PBT assessment  
No data available.  
vPvB assessment  
No data available.**SECTION 3: Composition/information on ingredients****3.1 Substances**

Not applicable. The product is not a substance.

**3.2 Mixtures****Hazardous ingredients**

This product does not contain substances to be mentioned according to EU Regulation No 1907/2006 (REACH), annex II.

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

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No special measures necessary. The first aid information refers to the electrolyte solution and is only relevant for leaking batteries.

**After inhalation**

Ensure supply of fresh air. In case of persisting adverse effects consult a physician.

**After skin contact**

In case of contact with skin wash off with water. Call a doctor immediately.

**After eye contact**

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Call a doctor immediately.

**After ingestion**

Rinse the mouth thoroughly with water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Call a doctor immediately.

**4.2 Most important symptoms and effects, both acute and delayed**

No data available.

**4.3 Indication of any immediate medical attention and special treatment needed**

No data available.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media**

Carbon dioxide; Dry chemical extinguisher; Foam

**Unsuitable extinguishing media**

Water

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

May explode if exposed to heat. In the event of fire, the following can be released: Carbon dioxide (CO<sub>2</sub>); Carbon monoxide (CO); Sulphur oxides (SxO<sub>y</sub>); Lead fumes

**5.3 Advice for firefighters**

Use self-contained breathing apparatus. Wear protective clothing.

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

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation.

**For emergency responders**

No data available. Personal protective equipment (PPE) - see Section 8.

**6.2 Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.

**6.3 Methods and material for containment and cleaning up**

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Send in suitable containers for recovery or disposal.

**6.4 Reference to other sections**

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling****Advice on safe handling**

No special measures necessary if stored and handled as prescribed.

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## General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash soiled clothing. Wash hands before breaks and after work.

## Advice on protection against fire and explosion

VRLA batteries emit hydrogen gas. Never install VRLA batteries in a gas-tight enclosure during storage, handling and usage.

## 7.2 Conditions for safe storage, including any incompatibilities

### Technical measures and storage conditions

Protect from heat and direct sunlight. Protect against humidity

### Recommended storage temperature

Value -20 - 50 °C

### Requirements for storage rooms and vessels

Keep only in the original container.

### Incompatible products

Do not store together with: combustible materials

## 7.3 Specific end use(s)

No data available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

No parameters available for monitoring.

### 8.2 Exposure controls

#### Appropriate engineering controls

No data available.

#### Personal protective equipment

##### Respiratory protection

No special measures required.

##### Eye / face protection

No special measures required. If free electrolyte is present: safety goggles or face shield

##### Hand protection

No special measures required. If free electrolyte is present: acid resistend safety gloves

##### Other

Remove ALL metallic objects when working with VRLA batteries.

##### Environmental exposure controls

No data available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>State of aggregation</b>	solid
<b>Form</b>	solid
<b>Colour</b>	grey; black
<b>Odour</b>	slight, original odour
<b>pH value</b>	No data available
<b>Boiling point / boiling range</b>	

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No data available
<b>Melting point/freezing point</b>
No data available
<b>Decomposition temperature</b>
No data available
<b>Flash point</b>
No data available
<b>Ignition temperature</b>
No data available
<b>Flammability</b>
No data available
<b>Lower explosion limit</b>
No data available
<b>Upper explosion limit</b>
No data available
<b>Vapour pressure</b>
No data available
<b>Relative vapour density</b>
No data available
<b>Relative density</b>
No data available
<b>Density</b>
No data available
<b>Solubility</b>
No data available
<b>Partition coefficient n-octanol/water (log value)</b>
No data available
<b>Kinematic viscosity</b>
No data available
<b>Particle characteristics</b>
No data available

## 9.2 Other information

<b>Other information</b>
No data available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available.

### 10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

### 10.3 Possibility of hazardous reactions

Dangerous reactions are not to be expected when handling product according to its intended use.

### 10.4 Conditions to avoid

Moisture. Heat; Temperatures > 50°C.

### 10.5 Incompatible materials

None, if handled according to order.

### 10.6 Hazardous decomposition products

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Hydrogen

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

<b>Acute oral toxicity</b>
No data available
<b>Acute dermal toxicity</b>
No data available
<b>Acute inhalational toxicity</b>
No data available
<b>Skin corrosion/irritation</b>
No data available
<b>Serious eye damage/irritation</b>
No data available
<b>Respiratory or skin sensitisation</b>
No data available
<b>Germ cell mutagenicity</b>
No data available
<b>Reproduction toxicity</b>
No data available
<b>Carcinogenicity</b>
No data available
<b>STOT - single exposure</b>
No data available
<b>STOT - repeated exposure</b>
No data available
<b>Aspiration hazard</b>
No data available

### 11.2 Information on other hazards

**Endocrine disrupting properties**

No data available.

**Other information**

No data available.

## SECTION 12: Ecological information

### 12.1 Toxicity

<b>Toxicity to fish (acute)</b>
No data available
<b>Toxicity to fish (chronic)</b>
No data available
<b>Toxicity to Daphnia (acute)</b>
No data available
<b>Toxicity to Daphnia (chronic)</b>
No data available
<b>Toxicity to algae (acute)</b>
No data available
<b>Toxicity to algae (chronic)</b>

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No data available

## Bacteria toxicity

No data available

## 12.2 Persistence and degradability

No data available.

## 12.3 Bioaccumulative potential

No data available.

## 12.4 Mobility in soil

No data available.

## 12.5 Results of PBT and vPvB assessment

### Results of PBT and vPvB assessment

PBT assessment	No data available.
vPvB assessment	No data available.

## 12.6 Endocrine disrupting properties

No data available.

## 12.7 Other adverse effects

No data available.

## 12.8 Other information

### Other information

Do not discharge product unmonitored into the environment.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

#### Packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed of in agreement with the regional waste disposal company.

## SECTION 14: Transport information

### 14.1 Transport ADR/RID/ADN

Class	8
Classification code	C11
Hazard identification no.	80
UN number	UN2800
Proper shipping name	BATTERIES, WET, NON-SPILLABLE
Tunnel restriction code	E
Label	8

### 14.2 Transport IMDG

Class	8
UN number	UN2800
Proper shipping name	BATTERIES, WET, NON-SPILLABLE
EmS	F-A, S-B
Label	8

### 14.3 Transport ICAO-TI / IATA

Class	8
UN number	UN2800
Proper shipping name	Batteries, wet, non-spillable
Label	8

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## Comments

This VRLA batteries have been tested and meet the non-spillable criteria listed in IATA Packing Instruction 872 and Special Provision A67. These batteries are accepted from all IATA regulations provided that the battery terminals are protected against short circuits. The words "Not Restricted, as per Special Provision A67" must be included in the description on the Air Waybill.

## 14.4 Other information

No data available.

## 14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

## 14.6 Special precautions for user

No data available.

## 14.7 Maritime transport in bulk according to IMO instruments

Not relevant

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulations

#### Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

#### REACH candidate list of substances of very high concern (SVHC) for authorisation

The article contains following substance/s that is/are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

No	Substance name	CAS no.	EC no.
1	lead massive [particle diameter $\geq 1$ mm]	7439-92-1	231-100-4

#### Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES

The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

No	Substance name	CAS no.	EC no.	No
1	antimony trioxide	1309-64-4	215-175-0	75
2	lead massive [particle diameter $\geq 1$ mm]	7439-92-1	231-100-4	30, 63, 72, 75
3	lead-dioxide	1309-60-0	215-174-5	30, 63, 72, 75
4	lead-monoxide	1317-36-8	215-267-0	75
5	sulphuric acid	7664-93-9	231-639-5	75
6	tin	7440-31-5	231-141-8	75

#### Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is not subject to Part 1 or 2 of Annex I.

#### Other regulations

Adhere to the national sanitary and occupational safety regulations when using this product.

### 15.2 Chemical safety assessment

Not required.

## SECTION 16: Other information

#### Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

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The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

**Creation of the safety data sheet**

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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