

SDS Report

No.: CANML2103912201

Date: 30 Mar 2021

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RITAR POWER (VIETNAM) CO., LTD.

LOT A21, ROAD C4 , THANH THANH CONG INDUSTRIAL PARK, AN HOA WARD, TRANG BANG TOWN, TAY NINH PROVINCE, VIETNAM.

SGS Job No. : SZIN2103003158PC
 Sample Name : Valve-regulated lead-acid battery
 Manufacturer : RITAR POWER (VIETNAM) CO., LTD.
 End Uses : UPS
 Composition/Ingredient of sample (as per client submission) : See *section 3 Composition/information on ingredients* on the SDS report
 Job Receiving Date : 17 Mar 2021
 SDS Preparation Period : 17 Mar 2021-23 Mar 2021

Service Requested : Safety Data Sheet (SDS) for the sample with submitted composition.

Summary : As per request, the contents and formats of the SDS are prepared in accordance with US Regulations Relating to Labor 29 CFR 1910.1200, and is provided per attached.

Remark:
 The SDS is prepared based on the information provided by client.

* This sample is likely to be classified as article and is out of scope of a SDS as set out in 29 CFR Part 1910.1200. This SDS is generated for client's reference only.

Signed for and on behalf of
 SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch



Zm guan
 Approved Signatory



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Safety Data Sheet

29 CFR 1910.1200

Printing date 03/30/2021


Version number 1


Reviewed on 03/22/2021


1 Identification

- **Product identifier**
- **Trade name:** *Valve-regulated lead-acid battery*
- **Recommended use of the chemical and restrictions on use:**
- **Application of the substance / the preparation:** *UPS*
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:** *RITAR POWER (VIETNAM) CO., LTD.*
- **Full address:**
LOT A21, ROAD C4 , THANH THANH CONG INDUSTRIAL PARK, AN HOA WARD, TRANG BANG TOWN, TAY NINH PROVINCE, VIETNAM.
- **Phone number:** *13751179319*
- **Email:** *grace@ritarpower.com*
- **Other U.S. contact point:** *Not available*
- **Further information obtainable from:** *RITAR POWER (VIETNAM) CO., LTD.*
- **Emergency telephone number:**
Poison Center
Tel: +1 800 222 1222
- **Reference Number:** *CANML2103912201, SZIN2103003158PC*
- **Remark:**
** This sample is likely to be classified as article product and is out of scope of a SDS as set out in 29 CFR Part 1910.1200. This SDS is generated for client's reference only.*

2 Hazard(s) identification

- **Classification of the substance or mixture**
Classification according to OSHA Hazard Communication Standard (29 CFR 1910.1200)
- 
GHS08 Health hazard

<i>Carc. 1A</i>	<i>H350</i>	<i>May cause cancer.</i>
<i>Repr. 1A</i>	<i>H360-H362</i>	<i>May damage fertility or the unborn child. May cause harm to breast-fed children.</i>
<i>STOT RE 2</i>	<i>H373</i>	<i>May cause damage to organs through prolonged or repeated exposure.</i>
- 
GHS05 Corrosion

<i>Skin Corr. 1A</i>	<i>H314</i>	<i>Causes severe skin burns and eye damage.</i>
<i>Eye Dam. 1</i>	<i>H318</i>	<i>Causes serious eye damage.</i>
- 
GHS07

<i>Acute Tox. 4</i>	<i>H302</i>	<i>Harmful if swallowed.</i>
<i>Acute Tox. 4</i>	<i>H332</i>	<i>Harmful if inhaled.</i>
- **Information concerning particular hazards for human and environment:**
The product has to be labeled due to the calculation procedure of OSHA Hazard Communication Standard (29 CFR 1910.1200).
- **Classification system:**
The classification is according to the latest edition of OSHA Hazard Communication Standard (29 CFR 1910.1200), and extended by company and literature data.

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- **Label elements**
- **Labelling according to OSHA Hazard Communication Standard (29 CFR 1910.1200)**
- **Hazard pictograms**



GHS05 GHS07 GHS08

- **Signal word** *Danger*
- **Hazard-determining components of labeling:**
 - lead dioxide*
 - sulphuric acid*
 - lead massive [particle diameter ≥ 1 mm]*
 - Glass, oxide, chemicals*
- **Hazard statements**
 - H302+H332 Harmful if swallowed or if inhaled.*
 - H314 Causes severe skin burns and eye damage.*
 - H350 May cause cancer.*
 - H360-H362 May damage fertility or the unborn child. May cause harm to breast-fed children.*
 - H373 May cause damage to organs through prolonged or repeated exposure.*
- **Precautionary statements**
 - P201 Obtain special instructions before use.*
 - P202 Do not handle until all safety precautions have been read and understood.*
 - P260 Do not breathe dusts or mists.*
 - P263 Avoid contact during pregnancy/while nursing.*
 - P264 Wash thoroughly after handling.*
 - P270 Do not eat, drink or smoke when using this product.*
 - P271 Use only outdoors or in a well-ventilated area.*
 - P280 Wear protective gloves/protective clothing/eye protection/face protection.*
 - P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.*
 - P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.*
 - P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.*
 - P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.*
 - 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/doctor.*
 - P308+P313 IF exposed or concerned: Get medical advice/attention.*
 - P321 Specific treatment (see on this label).*
 - P314 Get medical advice/attention if you feel unwell.*
 - P363 Wash contaminated clothing before reuse.*
 - P405 Store locked up.*
 - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.*
- **Hazards not otherwise classified (HNOC)** *No further relevant information available.*

3 Composition/information on ingredients

- **Chemical characterization:** *Mixtures*
- **Description:**
 - Mixture of the substances listed below with nonhazardous additions.*
 - For the wording of the listed hazard statements refer to Section 16.*

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· Composition:		
1309-60-0	lead dioxide ⚠️ Carc. 1B, H350; Repr. 1A, H360; STOT RE 2, H373; ⚠️ Acute Tox. 4, H302; Acute Tox. 4, H332	45%
7439-92-1	lead massive [particle diameter ≥ 1 mm] ⚠️ Carc. 2, H351; Repr. 1A, H360-H362	25%
7664-93-9	sulphuric acid ⚠️ Carc. 1A, H350; ⚠️ Skin Corr. 1A, H314	19.7%
9003-56-9	Poly(acrylonitrile-co-butadiene-co-styrene)	8%
65997-17-3	Glass, oxide, chemicals ⚠️ Carc. 1B, H350	2%
7440-70-2	calcium ⚠️ Water-react. 2, H261	0.15%
7440-31-5	Tin	0.15%

4 First-aid measures

· **Description of first aid measures**

· **General description:**

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.

· **After inhalation:**

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

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

· **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:**

Immediately call a doctor.

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

· **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

· **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.

· **Special hazards arising from the substance or mixture:**

During heating or in case of fire poisonous gases are produced.

· **Special protective equipment and precautions for firefighters**

· **Protective equipment:** Mouth respiratory protective device.

6 Accidental release measures

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

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

· **Environmental precautions:**

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

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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:

Use neutralizing agent.
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.

7 Handling and storage

· Precautions for safe handling:

Thorough dusting.
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
For the general occupational hygienic measures refer to Section 8.

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

· Conditions for safe storage, including any incompatibilities

· 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: Keep receptacle tightly sealed.

8 Exposure controls/personal protection

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

1309-60-0 lead dioxide (45%)

PEL (USA)	Long-term value: 0.05 mg/m ³ as Pb; See 29 CFR 1910.1025
REL (USA)	Long-term value: 0.05* mg/m ³ as Pb; *8-hr TWA; See Pocket Guide App. C
TLV (USA)	Long-term value: 0.05 mg/m ³ as Pb; BEI

7439-92-1 lead massive [particle diameter ≥ 1 mm] (25%)

PEL (USA)	Long-term value: 0.05* mg/m ³ *see 29 CFR 1910.1025
REL (USA)	Long-term value: 0.05* mg/m ³ *8-hr TWA ;See PocketGuide App.C
TLV (USA)	Long-term value: 0.05* mg/m ³ *and inorganic compounds, as Pb; BEI

7664-93-9 sulphuric acid (19.7%)

PEL (USA)	Long-term value: 1 mg/m ³
REL (USA)	Long-term value: 1 mg/m ³
TLV (USA)	Long-term value: 0.2* mg/m ³ *as thoracic fraction

65997-17-3 Glass, oxide, chemicals (2%)

TWA (USA)	Long-term value: 5* mg/m ³ *Inhalable fraction.
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7440-31-5 Tin (0.15%)

PEL (USA)	Long-term value: 2 mg/m ³ metal
REL (USA)	Long-term value: 2 mg/m ³

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TLV (USA)	Long-term value: 2 mg/m ³ metal
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· **Regulatory information**

PEL (USA): Guide to Occupational Exposure Values (OSHA PELs)

REL (USA): Guide to Occupational Exposure Values (NIOSH RELs)

TLV (USA): Guide to Occupational Exposure Values (ACGIH)

· **Ingredients with biological limit values:**

1309-60-0 lead dioxide

BEI (USA)	30 µg/100 ml Medium: blood Time: not critical Parameter: Lead
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7439-92-1 lead massive [particle diameter ≥ 1 mm]

BEI (USA)	30 µg/100 ml Medium: blood Time: not critical Parameter: Lead
	10 µg/100 ml Medium: blood Time: not critical Parameter: Lead (women of child bearing potential)

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

· **Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure.**

· **Appropriate engineering controls:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

See Section 7 for information about design of technical facilities.

· **Personal protective equipment:**

· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· **Protection of hands:**



Protective gloves

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

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

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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· **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

9 Physical and chemical properties

· **General Information**

· **Appearance:**

Form: Solid
Color: Blue on the top and light grey on the bottom

· **Odor:** Odourless

· **Odor threshold:** Not available

· **pH-value:** Not available

· **Change in condition**

Melting point/Freezing point: Not available
Initial boiling point and boiling range: Not available

· **Flash point:** Not available

· **Flammability (solid, gaseous):** Not available

· **Auto-Ignition temperature:** Not available

· **Decomposition temperature:** Not available

· **Explosion limits:**

Lower: Not available
Upper: Not available

· **Vapor pressure:** Not available

· **Density:** Not available

· **Relative density:** Not available

· **Vapor density:** Not available

· **Evaporation rate:** Not available

· **Solubility in / Miscibility with**

Water: Not available

· **Partition coefficient (n-octanol/water):** Not available

· **Viscosity:**

Dynamic: Not available
Kinematic: Not available

· **Other information** No further relevant information available.

10 Stability and reactivity

· **Reactivity:** Data not available

· **Chemical stability:** Data not available

· **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

- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:** Not available
- **Skin corrosion/irritation:** Strong caustic effect on skin and mucous membranes.
- **Serious eye damage/irritation:**
Strong caustic effect.
Strong irritant with the danger of severe eye injury.
- **Respiratory or skin sensitization:**
Sensitization possible.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Toxic
Harmful
Corrosive
Irritant
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.
Carcinogenic.

- **Carcinogenic categories**

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

1309-60-0	lead dioxide	2A
7439-92-1	lead massive [particle diameter ≥ 1 mm]	2B
7664-93-9	sulphuric acid	1

- **NTP (National Toxicology Program)**

1309-60-0	lead dioxide	R
7439-92-1	lead massive [particle diameter ≥ 1 mm]	R
7664-93-9	sulphuric acid	K

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

None of the ingredients is listed.

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.
- **Other adverse effects** No further relevant information available.

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13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· UN-Number	
· DOT, IMDG, IATA	UN2800
· UN proper shipping name	
· DOT	Batteries, wet, non-spillable
· IMDG	BATTERIES, WET, NON-SPILLABLE, MARINE POLLUTANT
· IATA	BATTERIES, WET, NON-SPILLABLE
· Transport hazard class(es)	
· DOT	
· Class	8 Corrosive substances
· Label	8
· IMDG	
· Class	8 Corrosive substances
· Label	8
· IATA	
· Class	8 Corrosive substances
· Label	8
· Packing group	
· DOT, IMDG, IATA	-
· Environmental hazards:	
· Marine pollutant:	Yes (DOT) Symbol (fish and tree)
· Special precautions for user	Warning: Corrosive substances
· EMS Number:	F-A,S-B
· Stowage Category	A
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable

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· Transport/Additional information:
· DOT
· Remarks:

Special marking with the symbol (fish and tree).

· IMDG
· Limited quantities (LQ)

1L

· Excepted quantities (EQ)

Code: E0

Not permitted as Excepted Quantity

· UN "Model Regulation":
UN 2800 BATTERIES, WET, NON-SPILLABLE, 8,
ENVIRONMENTALLY HAZARDOUS

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):

1309-60-0 lead dioxide

7439-92-1 lead massive [particle diameter ≥ 1 mm]

7664-93-9 sulphuric acid

· TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

· Proposition 65
· Chemicals known to cause cancer:

1309-60-0 lead dioxide

7439-92-1 lead massive [particle diameter ≥ 1 mm]
· Chemicals known to cause reproductive toxicity for females:
7439-92-1 lead massive [particle diameter ≥ 1 mm]
· Chemicals known to cause reproductive toxicity for males:
7439-92-1 lead massive [particle diameter ≥ 1 mm]
· Chemicals known to cause developmental toxicity:
7439-92-1 lead massive [particle diameter ≥ 1 mm]
· New Jersey Right-to-Know List:

1309-60-0 lead dioxide

7439-92-1 lead massive [particle diameter ≥ 1 mm]

7664-93-9 sulphuric acid

7440-31-5 Tin

7440-70-2 calcium

· New Jersey Special Hazardous Substance List:

1309-60-0 lead dioxide

CA

7439-92-1 lead massive [particle diameter ≥ 1 mm]

CA, TE

7664-93-9 sulphuric acid

CA, CO, R2

7440-31-5 Tin

F3

7440-70-2 calcium

R2

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· **Pennsylvania Right-to-Know List:**

7439-92-1	lead massive [particle diameter ≥ 1 mm]	
7664-93-9	sulphuric acid	
7440-31-5	Tin	
7440-70-2	calcium	

· **Pennsylvania Special Hazardous Substance List:**

7439-92-1	lead massive [particle diameter ≥ 1 mm]	E
7664-93-9	sulphuric acid	E

· **Carcinogenity categories**

· **EPA (Environmental Protection Agency)**

1309-60-0	lead dioxide	B2
7439-92-1	lead massive [particle diameter ≥ 1 mm]	B2

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

1309-60-0	lead dioxide	A3
7439-92-1	lead massive [particle diameter ≥ 1 mm]	A3
7664-93-9	sulphuric acid	A2

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

None of the ingredients is listed.

· **National regulations:**

· **Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

16 Other information

· **Relevant hazard statements**

H261 In contact with water releases flammable gas.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H332 Harmful if inhaled.

H350 May cause cancer.

H351 Suspected of causing cancer.

H360 May damage fertility or the unborn child.

H362 May cause harm to breast-fed children.

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

The contents and format of this SDS are in accordance with 29 CFR 1910.1200.

DISCLAIMER OF LIABILITY

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

· **Date of preparation / last revision** 03/30/2021 / -

· **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

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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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

Water-react. 2: Substances and mixtures which in contact with water emit flammable gases – Category 2

Acute Tox. 4: Acute toxicity – Category 4

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

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Carc. 1A: Carcinogenicity – Category 1A

Carc. 1B: Carcinogenicity – Category 1B

Carc. 2: Carcinogenicity – Category 2

Repr. 1A: Reproductive toxicity – Category 1A

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

End of document