#### according to Regulation (EC) No 1907/2006, Article 31

Printing date: 13.01.2025 Version No: 9.00 (replaces version 8.00) Revision: 13.01.2025

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

#### 1.1 Product identifier

Trade name: Valve Regulated Lead-acid Battery (VRLA Battery)

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

Application of the substance / the preparation: Batteries

Uses advised against: No further relevant information available.

1.3 Details of the supplier of the safety data sheet

#### Manufacturer/Supplier:

CSB Energy Technology Co., Ltd.

No. 16 Gongye W. Rd.

Erzhen Village, Guantian District

Tainan City 72048 Taiwan (R.O.C.)

Phone: +886-6-698-7600 +886-6-698-7605 Fax:

E-mail: service@csb-battery.com.tw

## 1.4 Emergency telephone number:

Taiwan Office: +886-2-2880-5600 (Business hour in Taiwan)

Europe Office: +31 (0) 180 418 140 (Keurmeesterstraat 28-30, 2984 BA Ridderkerk, The Netherlands)

Chemtrec: (800) 424-9300 / +1 703 527-3887

NVIC: +31 (0)88 755 8000: Only for the purpose of informing medical personnel in case of acute

intoxications

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008

Acute Tox. 4	H302	Harmful if swallowed.
Acute Tox. 4	H332	Harmful if inhaled.

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

Eye Dam. 1 H318 Causes serious eye damage.

Carc. 1A H350i May cause cancer by inhalation. Route of exposure: Inhalation.

Repr. 1A H360FD-H362 May damage fertility. May damage the unborn child. May cause harm to

breast-fed children.

STOT RE 1 H372 Causes damage to the central nervous system, the kidneys and the

blood through prolonged or repeated exposure. Route of exposure:

Oral, Inhalation.

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

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

The product is classified and labelled according to the CLP regulation.

## **Hazard pictograms**











GHS05 GHS07 GHS08 GHS09

Signal word Danger

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#### Hazard-determining components of labelling:

lead dioxide sulphuric acid

lead

Lead oxide sulfate (Pb5O4(SO4))

#### **Hazard statements**

H302+H332 Harmful if swallowed or if inhaled.

H314 Causes severe skin burns and eye damage.

H350i May cause cancer by inhalation. Route of exposure: Inhalation.

H360FD-H362 May damage fertility. May damage the unborn child. May cause harm to breast-fed children.

H372 Causes damage to the central nervous system, the kidneys and the blood through

prolonged or repeated exposure. Route of exposure: Oral, Inhalation.

H410 Very toxic to aquatic life with long lasting effects.

#### **Precautionary statements**

P260 Do not breathe dusts or mists.

P263 Avoid contact during pregnancy and while nursing.

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

protection.

regulations.

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

water [or snower].

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.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

tion:

### Additional information:

Product contains: Restricted explosives precursors. Making available, introduction, possession and use according to Regulation (EU) 2019/1148, Article 5 (1) and (3).

Restricted to professional users.

EUH201 Contains lead. Should not be used on surfaces liable to be chewed or sucked by children.

#### 2.3 Other hazards

#### Results of PBT and vPvB assessment

**PBT:** This product does not contain any substances ≥ 0.1% that have been assessed as PBT.

vPvB: This product does not contain any substances ≥ 0.1% that have been assessed as vPvB.

#### **Determination of endocrine-disrupting properties**

This product does not contain substances with endocrine disrupting properties in a concentration of  $\geq$  0.1%.

## SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Description:		
CAS: 9003-07-0 Polypropylene		5 - 9%
Dangerous components:		
CAS: 7439-92-1	lead	40 - 60%
EC number: 231-100-4	Repr. 1A, H360FD-H362; STOT RE 1, H372; Aquatic Chronic 1,	
Index number: 082-014-00-7	H410 (M=10)	
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#### Trade name: Valve Regulated Lead-acid Battery (VRLA Battery)

	(Col	ntd. of page 2)
CAS: 1309-60-0	lead dioxide	15 - 30%
EC number: 215-174-5 Index number: 082-001-00-6	Repr. 1A, H360Df; STOT RE 2, H373; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Acute Tox. 4, H332, EUH201	
	Specific concentration limits: Repr. 2; H361f: C ≥ 2.5 % STOT RE 2; H373: C ≥ 0.5 %	
CAS: 7664-93-9	sulphuric acid	20 - 30%
EC number: 231-639-5	Skin Corr. 1A, H314	
Index number: 016-020-00-8	Specific concentration limits: Skin Corr. 1A; H314: C ≥ 15 % Skin Irrit. 2; H315: 5 % ≤ C < 15 % Eye Irrit. 2; H319: 5 % ≤ C < 15 %	
CAS: 12065-90-6	Lead oxide sulfate (Pb5O4(SO4))	5 - 10%
EC number: 235-067-7	Carc. 2, H351; Repr. 1A, H360Df-H362; STOT RE 1, H372; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); Acute Tox. 4, H302; Acute Tox. 4, H332, EUH201 Specific concentration limits: Repr. 2; H361f: C ≥ 2.5 % STOT RE 1; H372: C ≥ 0.5 %	
CAS: 7446-14-2	lead sulphate	1 - 10%
EC number: 231-198-9 Index number: 082-001-00-6	Repr. 1A, H360Df; STOT RE 2, H373; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Acute Tox. 4, H332, EUH201	
	Specific concentration limits: Repr. 2; H361f: C ≥ 2.5 % STOT RE 2; H373: C ≥ 0.5 %	
CAS: 65997-17-3	Fibrous Glass	1 - 2%
EC number: 266-046-0	Carc. 1A, H350i	/.
SVHC		
CAS: 7439-92-1 lead		
CAS: 12065-90-6 Lead oxide	e sulfate (Pb5O4(SO4))	

Additional information: 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:**

Take affected persons out of danger area and lay down.

Immediately remove any clothing soiled by the product.

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

#### After inhalation:

Supply fresh air or oxygen; call for doctor.

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

#### After skin contact:

Immediately rinse with water.

Call a doctor immediately.

#### After eye contact:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Call a doctor immediately.

## After swallowing:

Rinse out mouth and then drink plenty of water.

Do NOT induce vomiting.

Call for a doctor immediately.

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

No further relevant information available.

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#### 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>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire extinguishing methods suitable to surrounding conditions.

For safety reasons unsuitable extinguishing agents: Water with full jet

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

There is a possibility of explosion of the product by heat.

Formation of toxic gases is possible during heating or in case of fire.

In case of fire, the following can be released:

Carbon monoxide

Carbon dioxide

Sulphur oxides (SOx)

#### 5.3 Advice for firefighters

Protective equipment: Wear self-contained respiratory protective device.

#### **Additional information**

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

#### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Wear protective clothing.

Do not touch or walk through the leakage.

Avoid formation of dust.

Keep away from ignition sources.

**6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

## 6.3 Methods and material for containment and cleaning up:

Absorb spillage with dry earth, sand or other fire retardant material or covered by, put into sealed container for waste disposal. And then, neutralize the spillage with sodium bicarbonate or slaked lime, and wash off with plenty of water.

Use neutralising agent.

Pick up mechanically.

Dispose of the material collected according to regulations.

#### 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

Prevent formation of dust.

Do not dismantle or modify the product.

Do not do short-circuit between the terminals.

Any unavoidable deposit of dust must be regularly removed.

Ensure good ventilation/exhaustion at the workplace.

#### Information about fire and explosion protection:

Dust can combine with air to form an explosive mixture.

Hydrogen emission will occur during charging which will form explosive air mixture.

Keep ignition sources away - Do not smoke.

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Protect against electrostatic charges.

# 7.2 Conditions for safe storage, including any incompatibilities Storage:

Requirements to be met by storerooms and receptacles: Store only in the original receptacle. Information about storage in one common storage facility: Store away from oxidising agents. Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.

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

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

## 8.1 Control parameters

Ingredients v	Ingredients with limit values that require monitoring at the workplace:		
CAS: 7439-92	CAS: 7439-92-1 lead		
OEL (Ireland)	Long-term value: 0.15 mg/m³ Repr1A, BOELV		
BOELV (EU)	Long-term value: 0.15 mg/m³ as Pb		
CAS: 1309-60	0-0 lead dioxide		
OEL (Ireland)	Long-term value: 0.15 mg/m³ Repr1A, BOELV		
BOELV (EU)	Long-term value: 0.15 mg/m³ as Pb		
CAS: 7664-93	3-9 sulphuric acid		
OEL (Ireland)	Long-term value: 0.05 mg/m³ IOELV, thoracic fraction		
IOELV (EU)	Long-term value: 0.05 mg/m³		
CAS: 7446-14-2 lead sulphate			
OEL (Ireland)	Long-term value: 0.15 mg/m³ Repr1A, BOELV		
BOELV (EU)	Long-term value: 0.15 mg/m³ as Pb		
DNEC			

PNECs	PNECs	
CAS: 7439-92-1 I	ead	
PNEC(aqua)	0.0024 mg/L (freshwater)	
	0.0033 mg/L (marine water)	
PNEC(STP)	0.1 mg/L (sewage treatment plant)	
PNEC(sediment)	186 mg/kg sedi. dw (freshwater)	
	168 mg/kg sedi. dw (marine water)	
PNEC(soil)	212 mg/kg soil dw (soil)	
PNEC(oral)	10.9 kg/kg food (food)	
CAS: 12065-90-6	Lead oxide sulfate (Pb5O4(SO4))	
PNEC(aqua)	0.0024 mg/L (freshwater)	
	0.0033 mg/L (marine water)	
PNEC(STP)	0.1 mg/L (sewage treatment plant)	
PNEC(sediment)	186 mg/kg sedi. dw (freshwater)	
	168 mg/kg sedi. dw (marine water)	
PNEC(soil)	212 mg/kg soil dw (soil)	
PNEC(oral)	10.9 mg/kg food (food)	
	(Contd. on page 6	

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#### 8.2 Exposure controls

Appropriate engineering controls No further data; see section 7.

Individual protection measures, such as personal protective equipment

#### General protective and hygienic measures:

Do not eat, drink, smoke or sniff while working.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Store protective clothing separately.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

The usual precautionary measures are to be adhered to when handling chemicals.

#### 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.

#### Hand protection



#### Protective gloves

Only use chemical-protective gloves with CE-labelling of category III.

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

#### 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/face protection** Safety glasses **Body protection**: Protective work clothing

**Environmental exposure controls** No further relevant information available.

## **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

**General Information** 

Physical state Solid Form: Solid

Colour:Not determined.Odour:Not determined.Odour threshold:Not determined.Melting point/freezing point:Not determined.

Boiling point or initial boiling point and boiling

range Not applicable. Flammability Not determined.

Lower and upper explosion limit

Lower:4 Vol %Upper:75 Vol %Flash point:Non-flammable.Auto-ignition temperature:Not combustible.Decomposition temperature:Not determined.

pH at 20 °C ≤ 1

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Viscosity:

**Kinematic viscosity Dynamic:**Not applicable.
Not applicable.

Solubility

water: Insoluble.

Partition coefficient n-octanol/water (log value) Not determined.

Vapour pressure: Not applicable.

Density and/or relative density

Density:Not determined.Relative densityNot determined.Vapour densityNot applicable.Relative gas densityNot applicable.Particle characteristicsSee section 3.

9.2 Other information

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

Oxidising properties No

**Evaporation rate** Not applicable.

## **SECTION 10: Stability and reactivity**

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

10.2 Chemical stability No decomposition if used and stored according to specifications.

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions

May produce violent reactions with bases.

Reacts with metals forming hydrogen.

**10.4 Conditions to avoid** No further relevant information available.

10.5 Incompatible materials:

Strong oxidizing agents

Reducing agent

Alkaline materials (bases)

**10.6 Hazardous decomposition products:** No dangerous decomposition products known.

## **SECTION 11: Toxicological information**

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

Harmful if swallowed or if inhaled.

LD/LC50	LD/LC50 values relevant for classification:	
CAS: 743	CAS: 7439-92-1 lead	
Oral	LD50	> 2000 mg/kg (Rat) (OECD Guideline 423)
Dermal	LD50	> 2000 mg/kg (Rat) (OECD Guideline 402)
Inhalative	LC50 (4h)	> 5.05 mg/L (Rat) (OECD Guideline 403)
CAS: 766	CAS: 7664-93-9 sulphuric acid	
Oral	LD50	2140 mg/kg (Rat)
Inhalative	LC50 (4h)	0.375 mg/L (Rat) (OECD Guideline 403, inhalation:aerosol)

#### **Primary irritant effect:**

#### Skin corrosion/irritation

Causes severe skin burns and eye damage.

## Serious eye damage/irritation

Causes serious eye damage.

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

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**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

Carcinogenicity

May cause cancer by inhalation. Route of exposure: Inhalation.

#### Reproductive toxicity

May damage fertility. May damage the unborn child. May cause harm to breast-fed children.

STOT-single exposure Based on available data, the classification criteria are not met.

#### STOT-repeated exposure

Causes damage to the central nervous system, the kidneys and the blood through prolonged or repeated exposure. Route of exposure: Oral, Inhalation.

Aspiration hazard Based on available data, the classification criteria are not met.

#### 11.2 Information on other hazards

#### **Endocrine disrupting properties**

This product does not contain substances with endocrine disrupting properties in a concentration of  $\geq$  0.1%.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

Aquatic toxicity:		
CAS: 7439-92-1 lead		
LC50 (48h)	0.07356 mg/L (Daphnia) (Ceriodaphnia dubia)	
LC50 (96h) (static)	0.107 mg/L (fish) (Oncorhynchus mykiss)	
EC10 (static)	1.06 mg/L (Bacteria) 24 h	
EC50 (72h)	0.0205 mg/L (algae) (OECD Guideline 201, Pseudokirchneriella subcapitata)	
NOEC (30d) (dynamic)	0.293 mg/L (fish) (Pimephales promelas)	
NOEC	0.1538 mg/L (Daphnia) (Alona rectangula) 25 d	
NOEC (48h) (static)	0.034 mg/L (Daphnia)	
CAS: 7664-93-9 sulphi	uric acid	
LC50 (96h) (static)	> 16 - < 28 mg/L (fish) (Lepomis macrochirus) nominal	
ErC50 (72h) (static)	> 100 mg/L (algae) (OECD Guideline 201, Desmodesmus subspicatus) nominal	
EC50 (48h) (static)	> 100 mg/L (Daphnia) (OECD Guideline 202, Daphnia magna) nominal	
CAS: 12065-90-6 Lead	oxide sulfate (Pb5O4(SO4))	
LC50	< 1.5 mg/L (Bacteria)	
LC50 (48h)	0.0264 mg/L (Daphnia) (Ceriodaphnia) total Pb/L	
LC50 (96h)	0.0408 mg/L (fish) (Pimephales promelas) total Pb/L	
EC50 (72h)	0.0205 mg/L (algae) (Pseudokirchneriella subcapitata) Pb/L	
NOEC	0.0116 mg/L (fish) (Mugil cephalus) total Pb/L	
CAS: 7446-14-2 lead sulphate		
IC50	0.5 mg/L (Daphnia) (48h, Daphnia magna)	
CAS: 65997-17-3 Fibro	ous Glass	
LC50 (96h) (static)	> 1000 mg/L (fish) (OECD Guideline 203, Danio rerio)	

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	(Conta. of page 8)
EC50	> 1000 mg/L (algae) (OECD Guideline 201, Pseudokirchneriella subcapitata)
	3d, semi-static
	> 1000 mg/L (Daphnia) (OECD Guideline 202, Daphnia magna)
	3d, semi-static

**12.2 Persistence and degradability** No further relevant information available.

12.3 Bioaccumulative potential	
7439-92-1 lead 1,553 BCF	

**12.4 Mobility in soil** No further relevant information available.

#### 12.5 Results of PBT and vPvB assessment

This product does not contain any substances ≥ 0.1% that have been assessed as PBT.

vPvB:

This product does not contain any substances ≥ 0.1% that have been assessed as vPvB.

#### 12.6 Endocrine disrupting properties

This product does not contain substances with endocrine disrupting properties in a concentration of ≥ 0.1%.

12.7 Other adverse effects No further relevant information available.

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

**Recommendation:** Must be specially treated adhering to official regulations.

**Uncleaned packaging** 

**Recommendation:** Disposal must be made according to official regulations.

#### **SECTION 14: Transport information**

14.1 UN number or ID number ADR/RID/ADN, IMDG, IATA 14.2 UN proper shipping name

UN2800

ADR/RID/ADN

2800 BATTERIES, WET, NON-SPILLABLE, electric storage, ENVIRONMENTALLY HAZARDOUS

IMDG, IATA

BATTERIES, WET, NON-SPILLABLE, electric

storage

14.3 Transport hazard class(es)

ADR/RID/ADN, IATA



**Class** 8 Corrosive substances.

Label

**IMDG** 



Class 8 Corrosive substances.

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Label 8

14.4 Packing group

ADR/RID/ADN, IMDG, IATA Void

14.5 Environmental hazards:

Marine pollutant: Symbol (fish and tree)

**14.6 Special precautions for user**Warning: Corrosive substances.

Hazard identification number (Kemler code): 80
EMS Number: F-A,S-B
Stowage Category A

14.7 Maritime transport in bulk according to IMO

**instruments** Not applicable.

**Transport/Additional information:** 

ADR/RID/ADN

Tunnel restriction code E

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E -

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Remarks:

#### **Special Provision:**

ADR/RID:

New and spent (used) batteries are exempted from all ADR/RID (special provision 598)

SEA transport:

non-Spillable batteries meet the requirements of Special Provision 238, they are exempted from all IMDG codes and are not subject to special regulation for sea transport.

Air transport:

Special Provision A67: CSB's VRLA batteries meet the requirements of Packing Instruction 872.

## The battery has been prepared for transport so as prevent:

- a) A short circuit by the effective insulation of exposed terminals; and
- b) Unintentional activation.

#### Remarks:

All batteries are identified as "Battery, Electric Storage, Wet, Non-spillable" when transported by air, sea or by land transportation.

The battery(s) must be identified as above on the Bill of Lading and properly packed with their terminals protected from short circuit.

Our battery(s) warning label identifies each battery as NON SPILLABLE.

CSB VRLA-AGM batteries are classified as "Non spillable" for the purpose of transportation as result of passing the Vibration and Pressure Differential Test.

CSB VRLA-AGM batteries can be safely transported on deck, or under deck stored on either a passenger or cargo vessel as result of passing the Vibration and Pressure Differential Tests as described in the IMDG regulations (Special Provision 238).

UN 2800 BATTERIES, WET, NON-SPILLABLE, ELECTRIC STORAGE, 8, ENVIRONMENTALLY

**HAZARDOUS** 

**UN "Model Regulation":** 

## **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.

Seveso category E1 Hazardous to the Aquatic Environment

Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 30, 63, 72

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Regulation (EU)	Regulation (EU) No 649/2012		
CAS: 7439-92-1	lead	Annex I Part 1	
CAS: 1309-60-0	lead dioxide	Annex I Part 1	
CAS: 12065-90-6	Lead oxide sulfate (Pb5O4(SO4))	Annex I Part 1	
CAS: 7446-14-2	lead sulphate	Annex I Part 1	

# DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

CAS: 7439-92-1 lead

#### **REGULATION (EU) 2019/1148**

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of	icensing
under Article 5(3))	

CAS: 7664-93-9 | sulphuric acid | Limit value: > 15 - ≤ 40 % | 20 - 30%

#### **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

## Regulation (EC) No 273/2004 on drug precursors

CAS: 7664-93-9 sulphuric acid

|3

# Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

CAS: 7664-93-9 sulphuric acid

3

## **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.

#### Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57	
CAS: 7439-92-1	lead
CAS: 12065-90-6	Lead oxide sulfate (Pb5O4(SO4))

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.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H350i May cause cancer by inhalation.
- H351 Suspected of causing cancer.
- H360Df May damage the unborn child. Suspected of damaging fertility.
- H360FD May damage fertility. May damage the unborn child.
- H361f Suspected of damaging fertility.
- H362 May cause harm to breast-fed children.
- 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.
- EUH201 Contains lead. Should not be used on surfaces liable to be chewed or sucked by children.

(Contd. on page 13)

#### according to Regulation (EC) No 1907/2006, Article 31

Printing date: 13.01.2025 Version No: 9.00 (replaces version 8.00) Revision: 13.01.2025

Trade name: Valve Regulated Lead-acid Battery (VRLA Battery)

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Date of previous version: 10.01.2025 Version number of previous version: 8.00

#### Abbreviations and acronyms:

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

MARPOL: (from Marine Pollutant) International Convention for the Prevention of Marine Pollution from Ships IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

UN: United Nations (also UNO: United Nations Organization)

NOEC: No Observed Effect Concentration

OECD: Organisation for Economic Co-operation and Development

ASTM: American Society for Testing and Materials

WAF: Water Accommodated Fraction

ADR: Accord relatif au transport international 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)

PNEC: Predicted No-Effect Concentration (REACH)

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 – Category 4

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

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

Carc. 1A: Carcinogenicity - Category 1Ai

Carc. 2: Carcinogenicity – Category 2
Repr. 1A: Reproductive toxicity – Category 1A
Repr. 1A: Reproductive toxicity – Category 1A

STOT RE 1: Specific target organ toxicity (repeated exposure) - Category 1

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

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1

<sup>\*</sup> Data compared to the previous version altered.