

# Material Safety Data Sheet (MSDS) Report

Applicant: Zhejiang Pinghu Hualong Industrial Co., Ltd.

588 Jinsha Road, Xincang Town, Pinghu City, Zhejiang Province, 314200, China.

Sample Description:

Product Name : Valve Regulated Acid Battery

Battery type : Valve Regulated Lead-Acid Battery

Battery Model : 2-FM-4/2-FM-5/3-FM-5/3-FM-3/3-FM-3.5/3-FM-4.5/3-FM-5/3-FM-6/3-FM-6.5/

3-FM-7/3-FM-7.2/3-FM-10/3-FM-12/6-FM-2.3/6-FM-2.6/6-FM-4/6-FM-4.5/6-FM-5/6-FM-5.5/6-FM-6.5/6-FM-7/6-FM-7.2/6-FM-8/6-FM-9/6-FM-10/6-FM-12/6-FM-14/12-FM-4/12-FM-4.5/

12-FM-5/12-FM-6/12-FM-7/12-FM-8/12-FM-9/12-FM-10/12-FM-12/12-FM-14

Data Reviewed: Jan 01, 2024

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Approved By:

Pingo Zhang, Manager

On behalf of Shanghai Ruifu Co., Ltd.

MSDS Number: SDS202312234727

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(29 CFR 1910.1200-OSHA HazCom 2012)

Product name: Valve Regulated Acid Battery MSDS Number: SDS202312234727

Revision Date: 01/01/2024 Page: 1 of 14

Version: 1.0

# SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Product Name : Valve Regulated Acid Battery

**Battery Type** : Valve Regulated Lead-Acid Battery

**Battery Model** : 2-FM-4/2-FM-4.5/2-FM-5/3-FM-3/3-FM-3.5/3-FM-4/3-FM-4.5/

> 3-FM-5/3-FM-6/3-FM-6.5/ 3-FM-7/3-FM-7.2/3-FM-10/3-FM-12/ 6-FM-2.3/6-FM-2.6/6-FM-4/6-FM-4.5/6-FM-5/6-FM-5.5/6-FM-6.5/ 6-FM-7/6-FM-7.2/6-FM-8/6-FM-9/6-FM-10/6-FM-12/6-FM-14/ 12-FM-4/12-FM-4.5/12-FM-5/12-FM-6/12-FM-7/12-FM-8/12-FM-9/

12-FM-10/12-FM-12/12-FM-14

Recommended use of the chemical and restrictions on use

Identified use : Use for power supply

Details of supplier of the safety data sheet

Zhejiang Pinghu Hualong Industrial Co., Ltd.

588 Jinsha Road, Xincang Town,

Pinghu City, Zhejiang Province, 314200,

China.

**Emergency telephone number** 

Tel: +86-573-85748822,

or contact your local emergency telephone number

**Product Information** Tel: +86-573-85748822 E-mail: 381514064@qq.com

# **SECTION 2. HAZARDS IDENTIFICATION**

This is valve regulated lead-acid battery product which is considered an article as defined by 29 CFR 1910.1200 (OSHA Hazard Communication Standard). The information contained in this MSDS is supplied at the customer's request for information only.

The following information is provided for the scenario that exposure occurred during battery production or container breakage or under extreme heat conditions such as fire, however, under normal conditions of battery use, internal ingredients/components will not present any physical, health and environmental hazard.

The following GHS hazardous classification are derived based on the internal ingredients under extreme exposure scenarios, such as breakage, leakage or being abused.

# GHS Classification(29 CFR 1910.1200 (OSHA HazCom 2012))

Corrosive to Metals : Category 1

Skin corrosion : Category 1

Serious eye damage : Category 1

Reproductive toxicity : Category 1A

Specific target organ

systemic toxicity - repeated

exposure (Oral)

: Category 1 (Central nervous system, Kidney, Blood)

Specific target organ : Category 1 (Central nervous system, Kidney, Blood)

(29 CFR 1910.1200-OSHA HazCom 2012)

Product name: Valve Regulated Acid Battery MSDS Number: SDS202312234727

Revision Date: 01/01/2024 Page: 2 of 14

Version: 1.0

systemic toxicity - repeated exposure (Inhalation)

#### GHS Label element(29 CFR 1910.1200 (OSHA HazCom 2012))

Hazard pictograms





Signal Word : Danger

Hazard Statements : May be corrosive to metals.

Causes severe skin burns and eye damage.

Causes serious eye damage.

May damage fertility or the unborn child.

Causes damage to organs (Central nervous system, Kidney, Blood) through prolonged or repeated exposure if swallowed. Causes damage to organs (Central nervous system, Kidney, Blood) through prolonged or repeated exposure if inhaled.

#### **Precautionary Statements**

#### : Prevention:

Obtain special instructions before use.

Do not handle until all safety precautions have been read and

understood.

Keep only in original container.

Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

Wash skin thoroughly after handling.

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

Wear protective gloves/ protective clothing/ eye protection/ face

protection.

# Response:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water/shower.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/

physician.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

IF exposed or concerned: Get medical advice/ attention.

Wash contaminated clothing before reuse. Absorb spillage to prevent material damage.

#### Storage:

Store locked up.

Store in corrosive resistant stainless steel container with a

resistant inner liner.

#### Disposal:

Dispose of contents/ container to an approved waste disposal plant.

(29 CFR 1910.1200-OSHA HazCom 2012)

Product name: Valve Regulated Acid Battery MSDS Number: SDS202312234727

Revision Date: 01/01/2024 Page: 3 of 14

Version: 1.0

#### Other hazards

No further available information.

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Product form : Manufactured article/solid

#### **Hazardous components**

Chemical Name	CAS-No.	Classification (OSHA HazCom 2012))	Concentration/ weight (wt%)
LEAD	7439-92-1	Repr. 1A; H360 STOT RE 1; H372 STOT RE 1; H372	65%
SULFURIC ACID	7664-93-9	Met. Corr. 1; H290 Skin Corr. 1; H314 Eye Dam. 1; H318	25%
FIBERGLASS	65997-17-3	Non-hazardous/ not classified	3%
ABS RESIN	9003-56-9	Non-hazardous/ not classified	7%

#### **SECTION 4. FIRST AID MEASURES**

Under normal conditions of battery use, internal ingredients/components will not present a health hazard. The following information is provided for battery electrolyte (acid) and lead for exposures that may occur during battery production or container breakage or under extreme heat conditions such as fire.

General advice : Move out of dangerous area.

Consult a physician.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : Move to fresh air.

If breathed in, move person into fresh air.

If unconscious place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : If on skin, rinse well with water.

Wash contaminated clothing before re-use.

If symptoms persist, call a physician.

In case of eye contact : In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

Continue rinsing eyes during transport to hospital.

Remove contact lenses. Protect unharmed eye.

If swallowed : Get medical attention immediately.

(29 CFR 1910.1200-OSHA HazCom 2012)

Product name: Valve Regulated Acid Battery MSDS Number: SDS202312234727

Revision Date: 01/01/2024 Page: 4 of 14

Version: 1.0

Do NOT induce vomiting. Rinse mouth with water.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through

the skin may include:

stomach or intestinal upset (nausea, vomiting, diarrhea)

irritation (nose, throat, airways)

Cough/choking.lung edema (fluid buildup in the lung tissue)

Difficulty in breathing

Causes serious eye damage.

May damage fertility or the unborn child.

Causes damage to organs through prolonged or repeated

exposure if swallowed.

Causes damage to organs through prolonged or repeated

exposure if inhaled. Causes severe burns.

Notes to physician : No hazards which require special first aid measures.

# **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Foam/Carbon dioxide (CO2)/Dry chemical

Unsuitable extinguishing

media

Specific hazards during

firefighting

: High volume water jet

: Highly flammable hydrogen gas is generated during charging

and operation of batteries.

To avoid risk of fire or explosion, keep sparks or other sources

of ignition away from batteries.

Do not allow metallic materials to simultaneously contact negative and positive terminals of cells and batteries.

Hazardous combustion

products

: Toxic fumes, corrosive vapors and sulfur oxides

Specific extinguishing

methods

: Product is compatible with standard fire-fighting agents.

Further information : Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus

and full protective gear.

# **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures

: Stop flow of material, contain/absorb small spills with dry

sand, earth, and vermiculite.

Do not use combustible materials.

(29 CFR 1910.1200-OSHA HazCom 2012)

Product name: Valve Regulated Acid Battery MSDS Number: SDS202312234727

Revision Date: 01/01/2024 Page: 5 of 14

Version: 1.0

If possible, carefully neutralize spilled electrolyte with soda

ash, sodium bicarbonate, lime, etc.

Wear acid-resistant clothing, boots, gloves, and face shield. Do not allow discharge of unneutralized acid to sewer.

Persons not wearing protective equipment should be excluded

from area of spill until clean-up has been completed.

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up

: If possible, carefully neutralize spilled electrolyte with soda

ash, sodium bicarbonate, lime, etc.

Other information : Comply with all applicable federal, state, and local regulations.

# **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : Do not drop battery, puncture, or attempt to open battery

case.

Avoid contact with the internal components of a battery. Do not subject product to open flame or fire and avoid situations that could cause arcing between terminals.

Do not smoke.

Keep away from combustible materials, organic chemicals, reducing substances, metals, strong oxidizers and water. Smoking, eating and drinking should be prohibited in the

application area.

For personal protection see section 8.

Conditions for safe storage : Store batteries under roof in cool, dry, well-ventilated areas

separated from incompatible materials and from activities that

may create flames, spark, or heat.

Store sealed lead acid batteries at ambient temperature.

Observe label precautions.

Charging: : Shut-off power to chargers whenever not in use and before

detachment of any circuit connections

Batteries being charged may generate and release flammable

hydrogen gas..

Charging space should be ventilated.

There is a possible risk of electric shock from charging equipment and from strings of series connected batteries,

whether or not being charged.

Other : Follow Manufacturers Recommendations regarding maximum

recommended currents and operating temperature range. Do not overcharge beyond the recommended upper charging

voltage limit.

Applying pressure or deforming the battery may lead to disassembly followed by eye, skin and throat irritation.

(29 CFR 1910.1200-OSHA HazCom 2012)

Product name: Valve Regulated Acid Battery MSDS Number: SDS202312234727

Revision Date: 01/01/2024 Page: 6 of 14

Version: 1.0

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Airborne exposures to hazardous substances are not expected when the cells or batteries are used for their intended purposes.

Exposure standards are not applicable to the sealed articles.

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
LEAD	7439-92-1	TWA	0.05 mg/m3 (as Pb)	PY OEL
LEAD	7439-92-1	TWA	0.05 mg/m3 (as Pb)	ACGIH
LEAD	7439-92-1	REL	0.050 mg/m3 (as Pb)	NIOSH/GUID E
LEAD	7439-92-1	TWA	0.05 mg/m3	OSHASP
LEAD	7439-92-1	OSHA_ACT	0.03 mg/m3	OSHASP
SULFURIC ACID	7664-93-9	TWA	0.2 mg/m3 Thoracic fraction.	ACGIH
SULFURIC ACID	7664-93-9	REL	1 mg/m3	NIOSH/GUID E
SULFURIC ACID	7664-93-9	PEL	1 mg/m3	OSHA_TRA NS
SULFURIC ACID	7664-93-9	TWA	1 mg/m3	TN OEL

**Engineering measures** : Store sealed lead acid batteries at ambient temperature.

Never recharge batteries in an unventilated, enclosed space.

Do not subject product to open flame or fire.

Avoid conditions that could cause arcing between terminals.

Personal protective equipment

Respiratory protection : None required for normal handling of products. Hand protection : None required for normal handling of products. Eye protection : None required for normal handling of products. Skin and body protection : None required for normal handling of products.

Hygiene measures : Wash hands before breaks and at the end of workday.

When using do not eat or drink.

Ensure that eyewash stations and safety showers are close to

the workstation location. When using do not smoke.

# **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state : Manufactured article

Colour : Various

Odor : No odor/odorless(product)/Sharp, penetrating, pungent

odor(electrolyte)

(29 CFR 1910.1200-OSHA HazCom 2012)

Product name: Valve Regulated Acid Battery MSDS Number: SDS202312234727

Revision Date: 01/01/2024 Page: 7 of 14

Version: 1.0

Odor Threshold : No data available

Ha : No data available

Melting point/freezing point : 327.4° C(lead) /-35 to -60° C (electrolyte)

Boiling point/boiling range : 1740° C (lead)/Approx. 108~114° C (electrolyte)

Flash point : No data available

Evaporation rate : No data available

Flammability (solid, gas) : Non-flammable under normal use conditions

Upper explosion limit : Non-explosive

Lower explosion limit : Non-explosive

Vapour pressure : <0.3mmHg @25° C (electrolyte)

Relative vapour density : No data available

Relative density : No data available

: 11.35 g/cm<sup>3</sup>(lead)/1.2 to 1.3 g/cm<sup>3</sup>(electrolyte) Density

Water solubility : 0.15mg/l (lead)/Fully soluble(Electrolyte)

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

: No data available Thermal decomposition

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

: Not an oxidizer Oxidizing properties

# **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.

The sealed battery is considered stable.

: Product will not undergo hazardous polymerization.

Possibility of hazardous

reactions

Incompatible materials : Contact with combustibles and organic materials may cause

fire and explosion.

(29 CFR 1910.1200-OSHA HazCom 2012)

Product name: Valve Regulated Acid Battery MSDS Number: SDS202312234727

Revision Date: 01/01/2024 Page: 8 of 14

Version: 1.0

Reacts violently with strong reducing agents, metals, sulfur

trioxide gas, strong oxidizers, and water.

Contact with metals may produce toxic sulfur dioxide fumes

and may release flammable hydrogen gas.

Acids/Bases/Combustible material/Organic materials Strong oxidizing agents/strong reducing agents

Hazardous decomposition

products

: Electrolyte: Sulfur trioxide, carbon monoxide, sulfuric acid

mist, sulfur dioxide, hydrogen sulfide.

Sulphur oxides/toxic fumes/ corrosive vapors

# **SECTION 11. TOXICOLOGICAL INFORMATION**

exposure

Information on likely routes of : Under normal conditions of use, this product does not present a health hazard. The following information is provided for organic electrolyte and lead exposure that may occur due to container breakage or under extreme conditions such as fire.

# **Acute toxicity**

Not classified based on available information.

LEAD:

: LD L0 (Human): 155 mg/kg Acute oral toxicity

Acute inhalation toxicity : LC Lo (Human): 271 mg/m3

SULFURIC ACID:

Acute oral toxicity : LD 50 (Rat): 2,140 mg/kg

#### Skin corrosion/irritation

Causes severe burns.

Remarks: Causes severe skin burns and eye damage.

Result: Not irritating to skin

SULFURIC ACID:

Result: Corrosive to skin

#### Serious eye damage/eye irritation

Causes serious eye damage.

Remarks: May cause irreversible eye damage.

Result: Slightly irritating to eyes

SULFURIC ACID:

Result: Corrosive to eyes

#### Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

(29 CFR 1910.1200-OSHA HazCom 2012)

Product name: Valve Regulated Acid Battery MSDS Number: SDS202312234727

Revision Date: 01/01/2024 Page: 9 of 14

Version: 1.0

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

May damage fertility or the unborn child.

LEAD:

Reproductive toxicity -

Assessment

: Positive evidence of adverse effects on sexual function and

fertility from human epidemiological studies.

Positive evidence of adverse effects on development from

human epidemiological studies.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Causes damage to organs (Central nervous system, Kidney, Blood) through prolonged or repeated

exposure if swallowed.

Causes damage to organs (Central nervous system, Kidney, Blood) through prolonged or repeated

exposure if inhaled.

LEAD:

Exposure routes: Ingestion

Target Organs: Central nervous system, Kidney, Blood

Assessment: Causes damage to organs through prolonged or repeated exposure.

Exposure routes: Inhalation

Target Organs: Central nervous system, Kidney, Blood

Assessment: Causes damage to organs through prolonged or repeated exposure.

**Aspiration toxicity** 

Not classified based on available information.

**Further information** 

LEAD:

Remarks: Reproductive system Kidney/Central nervous system/Blood

SULFURIC ACID: Remarks: Lung

Carcinogenicity:

IARC Group 1: Carcinogenic to humans

SULFURIC ACID 7664-93-9

Group 2B: Possibly carcinogenic to humans

LEAD 7439-92-1

OSHA No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP Known to be human carcinogen

(29 CFR 1910.1200-OSHA HazCom 2012)

Product name: Valve Regulated Acid Battery MSDS Number: SDS202312234727

Revision Date: 01/01/2024 Page: 10 of 14

Version: 1.0

SULFURIC ACID 7664-93-9

Reasonably anticipated to be a human carcinogen

LEAD 7439-92-1

# **SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity** 

**Ecotoxicology Assessment** 

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

LEAD:

M-Factor (Acute aquatic

toxicity)

Toxicity to fish : mortality LOEC - Oncorhynchus mykiss (rainbow trout) - 1,19

mg/l -96,0 h

: 10

LC50 - Micropterus dolomieui - 2,2 mg/l - 96,0 h

mortality NOEC - Salvelinus fontinalis - 1,7 mg/l - 10,0 d

Toxicity to daphnia and other

aquatic invertebrates

: mortality LOEC - Daphnia (water flea) - 0,17 mg/l - 24 h mortality NOEC - Daphnia (water flea) - 0,099 mg/l - 24 h

Toxicity to algae : mortality EC50 - Skeletonema costatum - 7,94 mg/l - 10 d

SULFURIC ACID:

Toxicity to fish : LC 50 (Lepomis macrochirus (Bluegill sunfish)): > 28 mg/l

Exposure time: 96 h Method: Static Remarks: Mortality

LC 50 (Lepomis macrochirus (Bluegill sunfish)): 16 - 28 mg/l

Exposure time: 96 h Method: Static Remarks: Mortality

Toxicity to daphnia and other

aquatic invertebrates

: EC 50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h

Method: Static

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l

Exposure time: 72 h

Persistence and degradability

Bioaccumulation : Oncorhynchus kisutch - 2 Weeks

- 150 μg/l(Lead)

(29 CFR 1910.1200-OSHA HazCom 2012)

Product name: Valve Regulated Acid Battery MSDS Number: SDS202312234727

Revision Date: 01/01/2024 Page: 11 of 14

Version: 1.0

Bioconcentration factor (BCF): 12

#### Bioaccumulative potential

No data available

# Mobility in soil

No data available

#### Other adverse effects

No data available

# **SECTION 13. DISPOSAL CONSIDERATIONS**

# **Disposal methods**

General advice : Lead-acid batteries are completely recyclable.

Material should be recycled if possible.

Dispose of in accordance with all applicable local, state and

federal regulations.

# **SECTION 14. TRANSPORT INFORMATION**

# International transport regulations

#### **GROUND TRANSPORT/US DOT, 49 CFR**

UN Number: UN2800

Proper Shipping Name: BATTERIES, WET, NONSPILLABLE, electric storage

Hazard classes: 8

Packaging group: Not applicable



# SEA TRANSPORT/INTERNATIONAL MARITIME DANGEROUS GOODS(IMDG 2022 EDITION AMENDMENT, 41-22)

UN Number: UN2800

Proper Shipping Name: BATTERIES, WET, NONSPILLABLE, electric storage

Hazard classes: 8

Packaging group: Not applicable

Special provision: 29, 238

LQ: 1L EQ: E0

EmS No.: F-A,S-B Marine pollutant: No

(29 CFR 1910.1200-OSHA HazCom 2012)

Product name: Valve Regulated Acid Battery MSDS Number: SDS202312234727

Revision Date: 01/01/2024 Page: 12 of 14

Version: 1.0



# AIR TRANSPORT/2023–2024 EDITION OF THE ICAO TECHNICAL INSTRUCTIONS FOR THE SAFE TRANSPORT OF DANGEROUS GOODS BY AIR(ICAO TI, 2023–2024) AND 65TH EDITION of the IATA DANGEROUS GOODS REGULATION (IATA DGR, 65TH EDITION)

UN Number: UN2800

Proper Shipping Name: BATTERIES, WET, NONSPILLABLE, electric storage

Hazard classes: 8

Packaging group: Not applicable

EQ: E0

Packing code(passenger): 872 Packing code(cargo): 872

Special provision: A48 A67 A164 A183

ERG code: 8L



This battery is not subject to DG regulations and is not a dangerous goods.

#### **GROUND TRANSPORT/US DOT, 49 CFR**

This valve regulated lead-acid battery is non-spillable battery and meet the requirements of 49 CFR 173.159(d), so it's not subject to DG regulations. It doesn't have an assigned UN number nor does it require additional DOT hazard labeling.

# SEA TRANSPORT/INTERNATIONAL MARITIME DANGEROUS GOODS(IMDG 2022 EDITION AMENDMENT, 41-22)

This valve regulated lead-acid battery is non-spillable battery and meet the requirements of special provision 238, so it is not subject to the provision of IMDG code.

AIR TRANSPORT/2023–2024 EDITION OF THE ICAO TECHNICAL INSTRUCTIONS FOR THE SAFE TRANSPORT OF DANGEROUS GOODS BY AIR(ICAO TI, 2023–2024) AND 65TH EDITION of the IATA DANGEROUS GOODS REGULATION (IATA DGR, 65TH EDITION):

(29 CFR 1910.1200-OSHA HazCom 2012)

Product name: Valve Regulated Acid Battery MSDS Number: SDS202312234727

Revision Date: 01/01/2024 Page: 13 of 14

Version: 1.0

This valve regulated lead-acid battery is exempt from DG regulation and classified as "non-spillable battery", so this battery is not subject to DG regulations, since it meets the requirement of packing instructions 872 of special provision A67.

This valve regulated lead-acid battery is securely packaged, protected from short circuits and labeled "non-spillable", they are good for transportation on either passenger or cargo aircraft.

# **SECTION 15. REGULATORY INFORMATION**

This product is an article pursuant to 29 CFR 1910.1200 and as such is not subjected to the OSHA Hazard Communication Standard. The information on this SDS is supplied at customer's request for information only.

**SARA 302** : Not regulated.

SARA 311/312 Hazards : Not regulated.

SARA 313 Component(s) : Not regulated.

California Prop 65 : This product does not contain any chemical known to the

State of California to cause cancer.

# **SECTION 16. OTHER INFORMATION**

#### **Further information**

Revision Date: 01/01/2024

#### Disclaimer:

This MSDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered by us to be dependable and is accurate to the best of our knowledge. It is not meant to be an all-inclusive document on worldwide hazard communication regulations.

This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment. We assumed no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the product.

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet:

ACGIH: American Conference of Industrial Hygienists

BEI: Biological Exposure Index

CAS: Chemical Abstracts Service (Division of the American Chemical Society).

CMR: Carcinogenic, Mutagenic or Toxic for Reproduction

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement : Hazard Statement

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization

ICAO-TI (ICAO): Technical Instructions by the "International Civil Aviation Organization"

IMDG: International Maritime Code for Dangerous Goods

(29 CFR 1910.1200-OSHA HazCom 2012)

Product name: Valve Regulated Acid Battery MSDS Number: SDS202312234727

Revision Date: 01/01/2024 Page: 14 of 14

Version: 1.0

logPow: octanol-water partition coefficient

LCxx: Lethal Concentration, for xx percent of test population

LDxx: Lethal Dose, for xx percent of test population. ICxx: Inhibitory Concentration for xx of a substance

Ecxx: Effective Concentration of xx N.O.S.: Not Otherwise Specified

OECD: Organization for Economic Co-operation and Development

**OEL**: Occupational Exposure Limit P-Statement : Precautionary Statement PBT: Persistent, Bioaccumulative and Toxic

PPE: Personal Protective Equipment STEL: Short-term exposure limit STOT: Specific Target Organ Toxicity

TLV: Threshold Limit Value TWA: Time-weighted average

vPvB: Very Persistent and Very Bioaccumulative

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

**DOT**: Department of Transportation

FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act HMIRC: Hazardous Materials Information Review Commission

HMIS: Hazardous Materials Identification System NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health OSHA: Occupational Safety and Health Administration

\*\*\*End of report\*\*\*