

Beiblatt zum Sicherheitsdatenblatt / Supplement to the safety data sheet

Abschnitt 1 / Section 1

1.1 Produktidentifikation / Product identification

s. Original-Datenblatt / see original safety data sheet

1.2 Verwendungen des Stoffs / Uses of the substance

s. Original-Datenblatt / see original safety data sheet

1.3 Einzelheiten zum Lieferanten / Details of the supplier

Firmenname /	Supplier	Stürmer Maschinen GmbH,
Straße /	Street	Dr.-Robert-Pfleger-Str. 26,
Ort /	City	D-96103 Hallstadt
Tel. /	Phone	+49 (0)951 96555 - 0 (07:00 - 17:00 Uhr / 07:00 am - 05:00 pm)
E-Mail /	E-Mail	info@stuermer-maschinen.de

1.4 Notrufnummer / Emergency Telephone

Wählen Sie die passende Notrufnummer anhand des GHS-Symbols auf Ihrem Gefahrgut oder entsprechend Abschnitt 2.2 des orig. Sicherheitsdatenblattes *.
Call the appropriate emergency number using the GHS symbol on your dangerous goods or according to section 2.2 of the original safety data sheet *.

GHS Gefahren-piktogramm / GHS symbol	GHS-Kürzel/ GHS-no.	Mögliche Signalwörter/ Warning	Gefährdungsklassen / Description of hazards	Notrufnummer */ Emergency Phone *
	GHS01 bis GHS09			+49 (0)951 96555 - 590 Sammelnotrufnummer Gefahrstoffe
	GHS01	Gefahr oder Achtung / Danger or Attention	Explosive Stoffe/Gemische und Erzeugnisse mit Explosivstoff, selbstzersetzliche Stoffe/Gemische, organische Peroxide / Explosive substances / mixtures and products containing explosives, self-reactive substances / mixtures, organic peroxides	- 591
	GHS02	Gefahr oder Achtung / Danger or Attention	Selbstzersetzliche Stoffe/Gemische, organische Peroxide, entzündbare Gase, Aerosole Flüssigkeiten, Feststoffe, selbsterhitzungsfähige Gemische, pyrophore Flüssigkeiten und Feststoffe, Stoffe/Gemische, die bei Berührung mit Wasser entzündbare Gase bilden / Self-reactive substances / mixtures, organic peroxides, flammable gases, aerosols, liquids, solids, self-heating mixtures, pyrophoric liquids and solids, substances / mixtures which form flammable gases on contact with water	- 592
	GHS03	Gefahr oder Achtung / Danger or Attention	Oxidierende Gase, Flüssigkeiten, Feststoffe / Oxidizing gases, liquids, solids	- 593
	GHS04	Achtung / Attention	Verdichtete, verflüssigte, gelöste und tiefgekühlt verflüssigte Gase / Compressed, liquefied, dissolved and refrigerated liquefied gases	- 594
	GHS05	Gefahr oder Achtung / Danger or Attention	Verätzung der Haut, schwere Augenschäden, auch metallkorrosive Eigenschaften / Chemical burns to the skin, severe eye damage, also metal-corrosive properties	- 595
	GHS06	Gefahr / Danger	Äußerst schwere und schwere akute Gesundheitsschäden oder Tod / Extremely severe and severe acute damage to health or death	- 596
	GHS07	Achtung / Attention	Akute Gesundheitsschäden, Reizung der Haut, der Augen und der Atemwege, Sensibilisierung der Haut, narkotisierende Wirkungen / Acute damage to health, irritation of the skin, eyes and the respiratory tract, sensitization of the skin, narcotic effects	- 597
	GHS08	Gefahr oder Achtung / Danger or Attention	Chronische Gesundheitsschäden (Organschädigungen) bei einmaliger oder mehrmaliger Exposition, krebserzeugende, erbgutverändernde und fortpflanzungsgefährdende Wirkungen, Lungenschäden durch Eindringen von Substanzen in die Lunge (Aspirationsgefahr), Sensibilisierung der Atemwege / Chronic damage to health (damage to organs) after single or multiple exposure, carcinogenic, mutagenic and reproductive effects, lung damage due to the penetration of substances into the lungs (risk of aspiration), sensitization of the respiratory tract	- 598
	GHS09	Achtung oder ohne Signalwort / Attention or without wording	Giftig für Wasserorganismen mit kurz- und langfristiger Wirkung / Toxic to aquatic organisms with short and long-term effects	- 599

* 07:00 - 17:00 Uhr, außerhalb dieses Zeitraums kann die Nummer auf dem Sicherheitsdatenblatt angerufen werden / 07:00 am - 05:00 pm, outside this time, the number on the safety data sheet can be called

Für alle anderen Informationen siehe Original-Sicherheitsdatenblatt / For all other information, see the original safety data sheet



FUJIAN MINHUA POWER SOURCE CO.,LTD

Add: Longqiao Industrial Zone,Anxi,Fujian,China P.C. 362442
Tel: 0086-595-22637788 22638899 Fax: 0086-595-22633777
Website: <http://www.baote-battery.com> <http://www.mhb-battery.com>
E-mail: sales@baote-battery.com

Material Safety Data Sheet

Section 1 --- Identification of The Product and The Company

Product Name : Valve Regulated Sealed Lead-Acid Battery
Company Identification: FUJIAN MINHUA POWER SOURCE CO.,LTD
Add: Longqiao Industrial Zone,Economy Development
Zone,An'xi,Fujian,China
Tel: 0595-22637788 FAX: 0595-22633777

Section 2---Composition/Information of Ingredients

Main Composition: Lead (Pb, PbO₂, PbSO₄)
Sulfuric acid(Gelled Sulfuric Acid)
Absorbed fiberglass mat Separator for AGM battery
PE/PP separator for GEL battery
ABS Plastic
Copper coated with Tin/Lead Terminal

Section 3---Hazardous Components

COMPONENTS	%W	CSHAPEL(TLV)	LD50 Oral	LD50 Inhalation	LD Contact
AGM battery/AGM DC battery					
Lead (Pb, PbO ₂ , PbSO ₄)	70%	N/A	<500mg/kg	N/A	N/A
Sulfuric acid	20%	1mg/m ³	2. 135mg/kg	N/A	N/A
Fiberglass separator	5%	N/A	N/A	N/A	N/A
Container (ABS resin)	5%	N/A	N/A	N/A	N/A
GEL battery					
Lead (Pb, PbO ₂ , PbSO ₄)	About 70%	0. 050mg/m ³	Š, (500) mg/Kg	N/A	N/A
Gelled Sulfuric Acid	About 20%	1 mg/m ³	(2. 14) mg/Kg	N/A	N/A
PE/PP separator	About 5%	N/A	N/A	N/A	N/A

FUJIAN MINHUA POWER SOURCE CO.,LTD

扫码使用
夸克扫描王



**FUJIAN MINHUA POWER SOURCE CO.,LTD**

Add: Longqiao Industrial Zone, Anxi, Fujian, China P.C. 362442

Tel: 0086-595-22637788 22638899

Fax: 0086-595-22633777

Website: <http://www.baote-battery.com><http://www.mhb-battery.com>E-mail: sales@baote-battery.com

Container (ABS resin)	About 5%	N/A	N/A	N/A	N/A
-----------------------	----------	-----	-----	-----	-----

Classification of the chemical

Chemical Name	CAS NO. :	Weight%
Lead	7439-92-1	65~75
Sulfuric Acid/Gelled sulfuric Acid	7664-93-9	10~20
ABS resin	9003-56-9	~5
Tin	7440-31-5	<0.5
Calcium	7440-70-2	<0.1

Section 4---First Aid Measures**SULFURIC ACID PRECAUTIONS :**

Skin Contact: Flush with water, see physician if contact area is large or if blisters form.

Eye Contact: Call physician immediately and flush with water until physician arrives.

Inhalation: Immediate medical attention is required. Call a physician or poison control center immediately. If not breathing, give artificial respiration, if breathing is difficult, give oxygen.

Ingestion: Call physician. If patient is conscious, flush mouth with water, have patient drink milk or sodium bicarbonate solution.

LEAD COMPOUNDS PRECAUTIONS:

Skin contact: Wash immediately with soap and water.

Ingestion: May cause abdominal pain, nausea, vomiting, diarrhea, and severe cramping. Acute ingestion should be treated by a physician.

Section 5---Fire-Fighting Measures

Components	Flashpoint	Explosive limits	Comments
Lead	None	None	
Sulfuric acid/Gelled sulfuric acid	None	None	
Hydrogen	268°C	4%-72.4%	Sealed batteries can emit hydrogen if over charged (float voltage>2.40VPC)



FUJIAN MINHUA POWER SOURCE CO.,LTD

扫码使用

夸克扫描王





FUJIAN MINHUA POWER SOURCE CO.,LTD

Add: Longqiao Industrial Zone, Anxi, Fujian, China P.C. 362442
Tel: 0086-595-22637788 22638899 Fax: 0086-595-22633777
Website: <http://www.baote-battery.com> <http://www.mhb-battery.com>
E-mail: sales@baote-battery.com

Fiberglass/PE/PP separator	N/A	N/A	Toxic vapors may be released. In case fire, wear self-contained breathing apparatus.
ABS Plastic	None	N/A	Temp. over 300°C(573°F) may release combustible gases. In case of fire: wear positive pressure self-contained breathing apparatus.

Protective Equipment and precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6---Accidental Release Measures

Steps to take in case of leak or spill:

If sulfuric acid is spilled from a battery, neutralize acid with bicarbonate (baking soda), sodium carbon (soda ash), or calcium oxide (lime). Flush area with water and discard to the sewage system. Do not allow neutralized acid into sewage system.

Section 7--- Handling & Storage

- 1) Examine the appearance of the battery before use.
- 2) Store the battery in a cool place.
- 3) Recharge the battery that has been stored more than 3 months.
- 4) Charge the battery in a well-ventilated environment.
- 5) Secure the battery firmly installed in equipment.
- 6) Don't load and unload the battery roughly.
- 7) Prohibit to dissecting the battery.
- 8) Don't attempt to use a cracked, deformed or leaky battery.
- 9) Don't subject the battery to excess vibration or violent jolted.
- 10) Prohibit to burning the battery or put it near the fire.

Section 8--- Exposure Controls/ Personal Protection

SKIN: Rubber gloves, Apron

RESPIRATORY: Respirator (for lead)

EYES: Safety goggles, Face Shield

COMMENTS: Protective equipment must be worn if the battery is cracked or otherwise damaged.

A respirator should be worn during reclaim operations if the TLV is exceeded.

Section 9---Physical & Chemical Properties

Components	Density	Melting Points	Solubility in Water	Odor	Appearance
Lead	11.34	327.4°C	None	None	Silver-Grey Metal

FUJIAN MINHUA POWER SOURCE CO.,LTD



扫码使用

夸克扫描王





FUJIAN MINHUA POWER SOURCE CO.,LTD

Add: Longqiao Industrial Zone, Anxi, Fujian, China P.C. 362442

Tel: 0086-595-22637788 22638899

Fax: 0086-595-22633777

Website: <http://www.baote-battery.com>

<http://www.mhb-battery.com>

E-mail: sales@baote-battery.com

Lead Sulfuric	6.2	1070°C	40mg/L (15°C)	None	White Powder
Lead dioxide	9.4	290°C	None	None	Brown Powder
Sulfuric acid	About 1.3	114°C	100%	Acidic	Clean Colorless liquid
Fiberglass /PE/PP separator	N/A	N/A	Slight	Toxic	White Fibrous Glass
ABS Plastics	N/A	N/A	None	None	Solid plastics

Section 10---Stability & Reactivity Data

COMPONENT	Sulfuric Acid/Gelled Sulfuric Acid
STABILITY	Stable at all temperature
POLYMERIZATION	Will not polymerize
INCOMPATIBILITY	Reactive metals, strong bases, most organic compounds
DECOMPOSITION PRODUCTS	Sulfuric dioxide, trioxide, hydrogen sulfide, hydrogen
CONDITIONS AVOID	Prohibit smoking, sparks, etc. from battery charging area. Avoid mixing acid with other chemicals.

Section 11---Toxicological Information

LEAD: The toxic effects of lead are accumulative and slow to appear. It affects the kidneys, reproductive, and central nervous systems. The symptoms of lead overexposure are anemia, vomiting, headache, stomach pain (lead colic), dizziness, loss of appetite, and muscle and joint pain. Exposure to lead from a battery most often occurs during lead reclaim operations through the breathing or ingestion of lead dust or fumes.

SULFURIC ACID: Sulfuric acid is a strong corrosive. Contact with acid can cause severe burns on the skin and in eyes. Ingestion of sulfuric acid will cause GI tract burns. Acid can be released if the battery case is damaged or if vents are tampered with.

FIBERGLASS SEPARATOR/PE/PP: Fiber glass/PE/PP is an irritant of the upper respiratory tract, skin and eyes. For exposure up to 10F/CC use MSA Camphol with type H filter. Above 10F/CC up to 50F/CC use Ultra-Twin with type H filter. This product is not considered carcinogenic by NTP or OSHA.

Marks: NTP is short for NATIONAL TOXICITY PROGRAM;

OSHA is short for OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION



FUJIAN MINHUA POWER SOURCE CO.,LTD

扫码使用

夸克扫描王





FUJIAN MINHUA POWER SOURCE CO.,LTD

Add: Longqiao Industrial Zone, Anxi, Fujian, China P.C. 362442

Tel: 0086-595-22637788 22638899

Fax: 0086-595-22633777

Website: <http://www.baote-battery.com>

<http://www.mhb-battery.com>

E-mail: sales@baote-battery.com

Section 12--- Electrical Safety

Due to the battery's low internal resistance and high power density, high levels of short circuit current can be developed across the battery terminals. Do not rest tools or cables on the battery. Use insulated tools only. Follow all installation instructions and diagrams when installing or maintaining battery systems.

Section 13---Disposal Considerations

Neutralized acid may be flushed down the sewer. Spent batteries must be treated as hazardous waste and disposed of according to local, state, and federal guidelines. A copy of this MSDS must be supplied to any scrap dealer or secondary lead smelter with battery.

Section 14 --- Transportation Information

We hereby certify that all BAOTE Valve regulated Sealed Lead Acid batteries conform to the UN2800 classification as "Batteries, wet, Non- Spillable, and electric storage" as a result of passing the Vibration and Pressure Differential Test described in United Nations Recommendations on the Transport of Dangerous Goods Model Regulations(Rev.19) Chapter 3.3 Clause 238, 2018 and IATA/ICAO [Special Provision A67] under the most update IATA Dangerous Goods Regulation (DGR) 64th edition of 2023.

"class 8, Group III UN No.2800 Batteries, wet, non-spillable, electric storage, special provision A67". These batteries are classified as non-spillable because they have been shown to meet the requirements of packing Instruction 806.

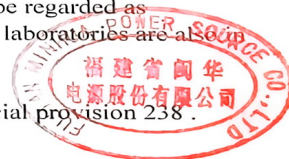
Special Provision A67, contained in IATA Dangerous Goods Regulations and the ICAO publication, Technical Instructions for the safe Transport of Goods by Air and states that "Non-spillable batteries are not subject to these Instructions if, at temperature of 55°C, the electrolyte will not flow from a ruptured or cracked case and there is no free liquid to flow and if, when packaged for transport, the terminals are protected from short circuit."

Our batteries having met the related conditions after testing by Shanghai Research Institute of Chemical industry Testing Center, who state that the batteries could be regarded as non-dangerous. Several other independent internationally recognised laboratories are also in agreement that these battery types are non-dangerous.

The substance is not subject to IMO IMDG Code according to special provision 238.

Transport Fashion: By air, by sea, by railway, by highway.

FUJIAN MINHUA POWER SOURCE CO.,LTD



扫码使用



夸克扫描王





FUJIAN MINHUA POWER SOURCE CO.,LTD

Add: Longqiao Industrial Zone, Anxi, Fujian, China P.C. 362442
Tel: 0086-595-22637788 22638899 Fax: 0086-595-22633777
Website: <http://www.baote-battery.com> <http://www.mhb-battery.com>
E-mail: sales@baote-battery.com

Section 15 --- Control Measure

Engineering Controls:

Store and handle in well-ventilated area. If mechanical ventilation is used, components must be acid-resistant.

Work Practices:

Handle batteries cautiously to avoid spills. Make certain vent caps are on securely. Avoid contact with internal components. Wear protective clothing when filling or handling batteries.

Respiratory Protection:

None required under normal conditions. When concentrations of sulfuric acid mist are known to exceed PEL, use NIOSH or MSHA-approved respiratory protection.

Protective gloves:

Rubber or plastic acid-resistant gloves with elbow-length gauntlet.

Eye Protection:

Chemical goggles or face shield.

Other Protection:

Acid-resistant apron. Under severe exposure or emergency conditions, wear acid-resistant clothing and boots.

Emergency Flushing:

In areas where sulfuric acid is handled in concentrations greater than 1%, emergency eyewash stations and showers should be provided, with unlimited water supply.

Section 16 --- Other Information

This information is based on our current level of knowledge and relates to the products in the states in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particularity.

ALL DATA MUST BE PASSED TO ANY SCRAP DEALER OR SMELTER WHEN BATTERY IS RESOLD.

Note: This is valid from Jan 1st, 2023 to Dec 31st, 2023

FUJIAN MINHUA POWER SOURCE CO.,LTD

