

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



MATERIAL SAFETY DATA SHEET

1 - PRODUCT AND COMPANY IDENTIFICATION	
Product description:	VRLA TYPE ELECTRICAL ACCUMULATORS WITH ABSORBED ELECTROLYTE (AGM)
Manufacturer Information:	FIB srl , Production Sites: Via Monti 13, Zona Industriale Monterubbiano (FM)-63825, Italy Località Macchia, Monte Sant'Angelo (FG),-71037, Italy Industrial Zone, Xushe Town ,Yixing Jiangsu (China)
Phone number:	+39 0734 25751
Emergency Phone Number:	+39 0734 25751

2 - PRODUCT COMPOUND INFORMATION	
Name:	Lead (Pb) and Lead Bi-Oxide (PbO2)
Weight %:	87
CAS N°:	7439-92-1
CEE N°:	--
Symbols:	T
R Phrases:	61/20/22/33
S Phrases:	53/45
Name:	Sulphuric Acid
Weight %:	11
CAS N°:	7664-93-9
CEE N°:	016-020-00-8
Symbols:	C
R Phrases:	35/41/38
S Phrases:	1/2/26/27/28/30/45

3 - HAZARDS	
Health risks:	Sulphuric acid corrodes skin, eyes and respiratory tracts. It is harmful or fatal if inhaled. Lead is a toxic metal.
Environmental Risks:	Pollution of soil and subsoil strata
Other Risks:	Sulphuric acid reacts rapidly with water and other organic substances.
Effects to Health:	Poisoning
Symptoms:	Anaemia, nephritis, lead colic, peripheral and central neuropathy

4 - FIRST AID	
General measures:	Keep individuals far away from the exposure zone.
Inhalation:	Ensure adequate ventilation during charging. Avoid vapor. Remove individual(s) from exposure. Wash nose and mouth and obtain medical attention immediately. Keep warm and at rest. If there is difficulty with breathing, give oxygen. Do not use mouth-to-mouth resuscitation.
Eye Contact:	Immediately flood the eye with plenty of water for at least 15 minutes, keeping the eyelids open. Obtain medical attention urgently.
Skin Contact:	Remove contaminated clothing while immediately flooding the skin with large quantities of water, preferably under a shower. If individual had any contact with plates, wash with water and soap, then bandage contact area and call a doctor.
Ingestion:	Call an ambulance immediately. Do not induce vomiting.



FIB Srl Sede Legale
Strada Prov.le per Gioia - Centro Aziendale Quercete
81016 SAN POTITO SANNITICO (CE)
P. IVA 03866680618 - Cap. Soc. € 10.000,00
Tel: +39 0823 786235 - Fax: +39 0823 543828
info@serihg.com - www.serihg.com

Sedi Operative - Production and commercial site
Zona industriale via Monti, 13
63825 MONTERUBBIANO (FM)
Tel: +39 07342581 - +39 0734258205
Fax: +39 073459729
info@faam.com - www.faam.com

Località Macchia
71037 MONTE SANT'ANGELO (FG)
Tel: +39 884 58951
Fax: +39 884 588316
info@faam.com - www.faam.com

Industrial Zone - Xushe Town
Yixing - Jiangsu (CHINA)
Tel: +86 051 087600222
Fax: +86 051 087600223
info@faam.com - www.faam.com



4 - FIRST AID	
	Wash out mouth with water. If conscious give copious amounts of cold water or milk of magnesia to sooth the affected parts (at least one cup every ten minutes). Ingested acid must be diluted by approximately x100 to render harmless to tissues. It is essential to intervene as quickly as possible.
Other information:	Keep an eyewash station close to the area where material is used.

5 - FIRE-FIGHTING MEASURES	
Extinguishing media:	Powders
Prohibited extinguishing media:	Halon
Unusual fire/explosion risks:	Sulphur Oxides may give rise to hazardous fumes in a fire. Violent reaction with water generates heat and may cause an explosion.
Hazardous Thermal (de) composition:	Attacks many metals liberating hydrogen gas.
Products:	Combustion will generate oxides of sulphur.
Fire-fighter protection:	Wear full protective clothing (full face mask, neoprene gloves and anti-acid overalls) and self-contained breathing apparatus.

6 - ACCIDENTAL RELEASE MEASURES	
Personal Precautions:	Ventilate the area to dispel possible toxic decomposition fumes. Wear appropriate protective clothing. Avoid ignition. Avoid contact with eyes, skin and clothing. Avoid inhaling vapor and provide respiratory protection. Remove all powder from area.
Environmental Precautions and Clean Up Methods:	Keep product a safe distance from surface and subsoil water. Neutralize product and drain. Contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal.
Gases/fumes released:	Not available
Additional Precautions:	Never use with water. Neutralize with calcium carbonate or with a 50/50 blend of calcium carbonate and calcium hydrate.

7 - HANDLING AND STORAGE	
Handling:	Use in well-ventilated area. Avoid inhaling vapour. Avoid contact with eyes, skin and clothing. Emergency shower and eye wash facilities should be readily available. Do not eat, drink or smoke while handling. The use of an open flame is prohibited.
Box Weight:	Minimum 8kg, Maximum 200kg, depending on type of cell.
Storage:	Storage area should be cool, under cover, and well-ventilated. Keep far away from organic substances such as food, wood, paper, straw and other reactive chemicals. Avoid water or steam from entering the container at all times-see conditions to avoid. Store in rubber-lined tanks for acid concentrations less than 70%. Suitable storage materials are: PTFE glass. Do not store in metal drums, nylon, plasticized PVC.
Packaging Materials:	Use original container.

8 - EXPOSURE CONTROLS/PERSONAL PROTECTION	
WORK EXPOSURE LIMITS	
Composition:	TLV1 (ppm-mg/mc)
Substance released:	SO2 EH40 (United Kingdom (UK)). WEL: 0.05 mg/m ³ (Proposed limit).
Exposure Reduction Measures:	Do not eat, drink or smoke in the area and use the following personal protective equipment.



FIB Srl Sede Legale
 Strada Prov.le per Gioia - Centro Aziendale Quercete
 81016 SAN POTITO SANNITICO (CE)
 P. IVA 03866680618 - Cap. Soc. € 10.000,00
 Tel: +39 0823 786235 - Fax: +39 0823 543828
info@serihg.com - www.serihg.com

Sedi Operative - Production and commercial site
 Zona industriale via Monti, 13
 63825 MONTERUBBIANO (FM)
 Tel: +39 07342581 - +39 0734258205
 Fax: +39 073459729
info@faam.com - www.faam.com

Località Macchia
 71037 MONTE SANT'ANGELO (FG)
 Tel: +39 884 58951
 Fax: +39 884 588316
info@faam.com - www.faam.com

Industrial Zone - Xushe Town
 Yixing - Jiangsu (CHINA)
 Tel: +86 051 087600222
 Fax: +86 051 087600223
info@faam.com - www.faam.com

8 - EXPOSURE CONTROLS/PERSONAL PROTECTION	
Respiratory system:	If there is a risk of uncontrolled exposure to vapor, use a cartridge mask.
Skin and Body:	Safety toe boots, rubber apron. If there is danger of splashing, wear PVC or other impermeable suit.
Hands:	Full-length neoprene gloves must be worn during all handling operations.
Specific Hygiene Measures:	Thoroughly wash hands and face after handling compounds and before eating, drinking, smoking, using lavatory, and at the end of the day.

9 - PHYSICAL AND CHEMICAL PROPERTIES	
Physical State:	Solid
pH:	Not available.
Odour:	Odorless
Colour:	Colourless

10 - STABILITY AND REACTIVITY	
Stability:	The product is stable.
Conditions to avoid:	Do not damage the monoblocks or expose to high temperatures, water or moisture.
Materials to avoid:	Picrates, nitrates, carbides, permanganate chlorates, metallic powders, both oxidizing and reducing agents. Organic materials. Strong Acids. Alkalis.
Hazardous Decomposition Products:	Not available.
Polymerization:	Not available.

11 - TOXICOLOGICAL INFORMATION	
Toxicological data:	CL 50 inhalation 510mg/n° CL 50 oral 2140mg/kg
Effect of Short term exposure:	
Inhalation:	Irritation of upper respiratory tracts.
Contact with Skin:	Extremely hazardous in case of skin contact.
Contact with Eyes:	Extremely hazardous in case of eye contact (irritant).
Ingestion:	Extremely hazardous to digestive tract if swallowed.
Injection:	Not available.
Chronic Toxicity:	Repeated or prolonged contact with spray mist may produce chronic severe eye irritation and severe skin irritation, including burns and necrosis. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation, leading to frequent attacks of bronchial infection. Highly corrosive and irritating.
Sensitivity effects:	Allergic reactions, such as dermatitis.

12 - ECOLOGICAL INFORMATION	
Ecotoxicity:	High concentrations injure plants and animals by effect on pH.
Mobility:	High.

13 - DISPOSAL CONSIDERATIONS	
Waste Classification:	Toxic and hazardous refuse. Toxic and hazardous residues.
Methods of disposal, Waste of residues and Contaminated packaging:	Dispose of in accordance with all applicable local and national regulations.

14 - TRANSPORT INFORMATION



FIB Srl Sede Legale
Strada Prov.le per Gioia - Centro Aziendale Quercete
81016 SAN POTITO SANNITICO (CE)
P. IVA 03866680618 - Cap. Soc. € 10.000,00
Tel: +39 0823 786235 - Fax: +39 0823 543828
info@serihg.com - www.serihg.com

Sedi Operative - Production and commercial site
Zona industriale via Monti, 13
63825 MONTERUBBIANO (FM)
Tel: +39 07342581 - +39 0734258205
Fax: +39 073459729
info@faam.com - www.faam.com

Località Macchia
71037 MONTE SANT'ANGELO (FG)
Tel: +39 884 58951
Fax: +39 884 588316
info@faam.com - www.faam.com

Industrial Zone - Xushe Town
Yixing - Jiangsu (CHINA)
Tel: +86 051 087600222
Fax: +86 051 087600223
info@faam.com - www.faam.com



14 - TRANSPORT INFORMATION					
WET BATTERIES FILLED WITH LIQUID ACID ELECTROLYTE					
ADR/RID: Application of 598 special provision					
Class:	8	Packing Group	UN 2794	Label:	8 N° Kernier: 80
IMO/IMDG					
Class:	8	Packing Group	UN 2794	EmS:	F-A, S-B. Marine Pollutant: No Flashpoint: --
ICAO/IATA					
Class:	8	Packing Group	UN 2794	Label:	8
		Aircraft Packing instructions:		800 30kg Gross	
		Cargo Packing Instructions:		800 No Limit	

15 - REGULATORY INFORMATION	
Please thoroughly read and understand everything written in this Safety Data Sheet and use the utmost care and prudence when dealing with the product.	
Symbols:	
R Phrases:	35/38/41/61/20/22/33
S Phrases:	53/45/1/2/26/27/28/30
It is obligatory to place a sign on the pallet according to D.M. 16/2/93 (Italian Ministerial Decree) regarding Packaging, labeling and material safety data sheets for substances and preparations. The Corrosion symbol is absolutely necessary.	

16 - OTHER INFORMATION	
Notice to reader	To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.
MSDS INFORMATION:	
Date of Issue: 18.10.2008	
Rev 1 Date: 11.02.2011	
Rev2 Date: 29.03.2013	



FIB Srl Sede Legale

Strada Prov.le per Gioia - Centro Aziendale Quercete
 81016 SAN POTITO SANNITICO (CE)
 P. IVA 03866680618 - Cap. Soc. € 10.000,00
 Tel: +39 0823 786235 - Fax: +39 0823 543828
info@serihg.com - www.serihg.com

Sedi Operative - Production and commercial site

Zona industriale via Monti, 13
 63825 MONTERUBBIANO (FM)
 Tel: +39 07342581 - +39 0734258205
 Fax: +39 073459729
info@faam.com - www.faam.com

Località Macchia
 71037 MONTE SANT'ANGELO (FG)
 Tel: +39 884 58951
 Fax: +39 884 588316
info@faam.com - www.faam.com

Industrial Zone - Xushe Town
 Yixing - Jiangsu (CHINA)
 Tel: +86 051 087600222
 Fax: +86 051 087600223
info@faam.com - www.faam.com