

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

Safety Data Sheet

SDS

Lithium-ion Battery

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Product name : Lithium-ion Battery
BL7800 36V 5.5Ah 198Wh
BL7800A 36V 8.25Ah 297Wh
BL7800B 36V 5.5Ah 198Wh
BL7800C 36V 8.25Ah 297Wh

Company: BMZ Company Limited

Address: 2nd Building, No.2 Jinlong Street, Baolong Industry Zone, Longgang, SZ, China.

Post code: 518116 **E-mail:** Zhilin.cai@bmz-group.com

Fax No.: 0086-755-89775900 **Emergency Phone :** 0086-755-89773981

SDS Numer BMZ 201903220852SV5EO **SDS date :** 2019-3-22

SECTION 2 HAZARDS IDENTIFICATION

Hazards Identification : Class 9, miscellaneous. The battery has passed the test items of UN model Regulations, Manual of Test and Criteria Section UN 38.3.

Emergency overview:

Caution: Avoid contact and inhalation the electrolyte contained inside the battery

SECTION 3 INFORMATION ON INGREDIENTS

Product name: Lithium-ion Battery Li58 5.2A 50.4V 5.2Ah 262Wh

Ingredient	Concentration	CAS NO.
Lithium Nickel Cobalt	32	182442-95-1
Manganese Oxides		
Graphite	17	7782-42-5
Ethylen Carbonate	3	623-53-0
Dimetyle Carbonate	7	616-38-6
Lithium	2	21324-40-3
Aluminium	5	7429-90-5
Copper	14	7440-50-8
Copper	9	7439-89-6

SECTION 4 FIRST-AID MEASURE

Skin Exposure: If the internal battery materials of an opened cell come into contact with the skin, immediately flush with plenty of water.

Eye Exposure: In case of the internal battery materials in contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Inhalation Exposure: If inhaled the internal materials of battery, remove immediately to fresh air and seek medical attention

Oral Exposure: If swallowed the internal materials of battery, do not induce vomiting, seek immediate medical attention.

SECTION 5 FIRE FIGHTING MEASURES

Extinguishing media

Suitable: Dry chemical, Sandy soil, Carbon dioxide or appropriate foam.

Firfighting:

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific hazards: Emit toxic fumes under fire conditions.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Procedure of personal precaution:

If batteries show signs of leaking, avoid skin or eye contact with the material leaking from the battery. Use chemical resistant rubber gloves and non-flammable absorbent materials for clean up. Mix with inert material (e.g. dry sand, vermiculite) and transfer to sealed container for disposal.

SECTION 7 HANDLING AND STORAGE

Handling:

Keep away from ignition sources, heat and flame. Such batteries must be packed in inner packages in such a manner as to effectively prevent short circuits and to prevent movement which could lead

to short circuits. Avoid mechanical or electrical abuse. More than a momentary short circuit will generally reduce the battery service life. Avoid reversing battery polarity within the battery assembly. In case of a battery unintentionally be crushed, rubber gloves must be used to handle all battery components. Avoid contact with eyes, skin. Avoid inhalation. No smoking at working site. Materials to avoid: Strong oxidizing agents, corrosives.

SECTION 8 EXPOSURE CONTROL /PPE

Engineering Control: Use ventilation equipment if available. Safety shower and eye bath.

Personal Protective Equipment:

Respiratory system : Not necessary under conditions of normal use.

Eyes: Not necessary under conditions of normal use.

Clothing: Wear appropriate protective clothing.

Hand: Safety gloves.

SECTION 9 PHYSICAL/CHEMICAL PROPERTIES

Appearance: Black Plastic Enclosure

Odor : Odorless

Melting Point/C° : >300C°

Solubility : Partial soluble in water

SECTION 10 STABILITY AND REACTIVITY

Stability : Stable under normal temperatures and pressures.

Conditionals to avoid:

Avoid exposure to heat and open flame. Avoid mechanical or electrical abuse. Prevent short circuits. Prevent movement which could lead to short circuits.

Materials to avoid: **Strong oxidizing agents Corrosives.**

Hazardous Polymerization: Will not occur

Hazardous Decomposition Products: Metal oxides, Co, CO₂

SECTION 11 TOXICOLOGICAL INFORMATION

Toxicity data: Not available

Irritation data: : The internal battery materials may cause irritation to eyes and skin.

SECTION 12 ECOLOGICAL INFORMATION

NO data available

SECTION 13 DISPOSAL CONSIDERATION

Appropriate Method of Disposal of Substance:

Lithium batteries are best disposed of as a non hazardous waste when fully or mostly discharged. Contact a licensed professional waste disposal service to dispose of large quantities materials.

SECTION 14 TRANSPORT INFORMATION

IATA-- Proper shipping name: Lithium ion batteries UN number: UN3480 Hazard Class: 9
The product shall meet the General Requirements and section IA of packaging Instruction 965(IATA DGR Version 2018)

IMO-- Proper shipping name: Lithium ion batteries. UN number: UN3480 Hazard Class: 9
Ems No. : F-A S-I

SECTION 15 REGULATORY INFORMATION

ICAO:

1. Unless be exempted according to ICAO TI, the lithium ion cell/batteries (UN 3480, PI 965) and lithium metal cell/batteries (UN 3090, PI 968) are forbidden for carriage on passenger aircraft.
2. Unless be approved according to ICAO TI, Lithium ion cells / batteries (UN 3480, PI 965) must be offered for transport at a state of charge (SoC) not exceeding 30% of their rated design capacity.
3. A shipper is not permitted to offer for transport more than one (1) package prepared according to Section II of PI 965 and PI 968 may be placed into an overpack.
4. Packages prepared according to Section II of PI 965 and PI 968 must be offered to the operator separately from other cargo and must not be loaded into a unit load device (ULD) before being offered to the operator.

Section 16 OTHER INFORMATION

Date 2019-3-22 Dept : Quality Dept of BMZ Company Limited