

**SKF MPT** states that this SDS pertains to the batteries included in the following designations:

**TLSD 1-BATC** 

SKF MPT (Maintenance Products, Power Transmission, Tools & Equipment) Visiting address: Meidoornkade 14, 3992 AE Houten Delivery address: Peppelkade 68, 3992 AK Houten Mailing address: P.O. Box 2350, 3430 DT Nieuwegein The Netherlands

# **MATERIAL SAFETY DATA SHEET**

Date : Jan 1st, 2021 File No.: PH-W5-108

# 1. Identification of the substance/preparation and of the company/undertaking

Identification of the product

Product name :

Chemical System:

Model:

Designated for 'DO NOT RECHARGE'?

Manufacturer/supplier identification

Company :

Contact for information:

Emergency telephone No.

Lithium Metal Battery

Lithium and Iron Sulfide (Li-FeSx battery)

LFBAA/FR14505 1,5V 2900mAh

X Yes \_\_ No

Guangzhou Great Power Energy & Technology Co., Ltd.

912 Xicun Section, Shiliang Road, Shawan, Panyu,

Guangzhou, GD, PRC

0086-20-39196888

# 2. Composition/information on ingredients

Ingredient	Percent	CAS Index No./EC No.	Molar mass	Molecular formula	Symbol
Iron Sulfide Compound	30.6%	1317-37-9		FeSx	
Lithium	6.4%	7439-93-2	1.3	EXERG! LING	
Organic Solvent	14.8%	N/A	2081	以班縣能得代 )	<u>(</u>
Lithium Salt	1.9%	63676-96-0		西脑有限企中令	
Polypropylene	2.5%	9003-07-0	100	AL III	
Steel	35.7%	7439-89-6	0416	Fe Fe	
Aluminum	8.1%	7429-90-5		Al	

Remark: The weight of metallic lithium per cell is <1.0g.

#### 3. Hazards identification

Routes of Entry: Inhalation - Yes Skin - Yes Ingestion - Yes



Health Hazards (Acute and Chronic):

These chemicals are contained in a sealed can. Risk of exposure occurs only if the battery is mechanically or electrically abused. The most likely risk is an acute exposure when the gas release vent works. Organic solvent has slight toxicity and can irritate skin and eyes. Lithium salt is irritating to skin, eyes and mucous membranes and should be avoided.

Carcinogenicity:

NTP: None IARC Monograph: None OSHA Regulated: None

Medical Conditions Generally Aggravated by Exposure:

An acute exposure will not generally aggravate any medical condition.

#### 4. First aid measures

After skin contact is ln case of skin contact with contents of battery, flush immediately with

water. If irritation persists, get medical help.

After eye contact: For eye contact, flush with copious amounts of water for 15 minutes. Do not

inhale leaked material. If irritation persists, get medical help.

#### 5. Fire-fighting measures

Extinguishing Media: CO2 or dry chemicals

Flammable Limits: Not available

## 6. Accidental release measures

The preferred response is to leave the area and allow the batteries to cool and the vapors to dissipate. Avoid skin and eye contact or inhalation of vapors. Remove spilled liquid with absorbent and incinerate.

## 7. Handling and storage

Avoid mechanical or electrical abuse. Batteries may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity.

#### 8. Exposure controls/personal protection

Specific control parameter:

Personal protective equipment :

Respiratory protection

(Specify Type):

Not necessary under conditions of normal use.

Ventilation: Protective Gloves:

Not necessary under conditions of normal use. Not necessary under conditions of normal use. Not necessary under conditions of normal use.

Eye protection: Other Protective

(Clothing or Equipment):

Not necessary under conditions of normal use.

## 9. Physical and chemical properties

Specific Gravity: (H20=1); Li: 0.388

Melting Point: (°C): Li decomposes at 180.5 deg. C

FeSx is a brass-colored, odorless powder.

Lithium is a soft, silvery metal.

Organic solvent is an odorless, colorless or light yellow liquid.

Lithium salt is a white, crystalline and odorless powder.

# 10. Stability and reactivity

Stability: Stable

Conditions to Avoid: Do not heat, disassemble or charge.

Hazardous Decomposition or By-products; N/A

Hazardous polymerization will not occur.

#### 11. Toxicological information

Acute toxicity:

Organic solvent

Further toxicological information

Lithium

## 12. Ecological information

Ecotoxic effects: N/A

Further ecological data: N/A

#### 13. Disposal considerations

GREAT POWER encourages battery recycling. Our Li-FeSx batteries are recyclable through the Rechargeable Battery Recycling Corporation's (RBRC) Charge Up to Recycle! Program. For information call

1-800-8-BATTERY or see their website at www.rbrc.org. Li-FeSx batteries must be handled in accordance with all applicable state and federal laws and regulations.

DO NOT RECHARGE, disassemble, short, or subject battery cells to temperatures in excess of 212 F. Do not use in combination with fresh and used lithium batteries neither with other type of battery.

## 14. Transport information

International transport regulations:

1. International Air Transport Association (IATA) pursuant to Packing

Instruction 968,969 or 970, Section II

2. International Maritime Dangerous Goods Code, IMDG 39-18

3. U.S. hazardous materials regulations pursuant to 49 CFR 173.185 and

Special Provision SP188.

UN-No.:

3090 and 3091

IATA Packaging Instruction

Packing Instruction 968,969 or 970 Section II

Great Power Li-FeSx cells pass the tests defined in UN model regulation section 38.3. Cells and batteries are packed according to the requirement of 62<sup>nd</sup> Edition of the IATA Dangerous Goods Regulations (DGR).

If Great Power Li-FeSx cells are used to construct battery packs, the assembler of that pack is responsible to ensure the battery has been tested in accordance with the requirements contained in the UN Model Regulations, Manual of Test and Criteria. Part III, subsection 38.3.

#### 15. Regulatory information

N/A

#### 16. Other information

Make people:

Professional post: R&D Engineer

Make unit :

Name: R&D Department

Address: R&D Dept., Panyu Plant.,

Date of issue : 2021/01/01

Name(sign): Jack Lee

Phone: 0086-20-39196888

DISCLAIMER:

The information and recommendations set forth are made in good faith and believed to be accurate as of the date of preparation. Guangzhou Great Power Energy & Technology Co.,Ltd makes no warranty, expressed or implied, with respect to this information and disclaims all liabilities from reliance on it.