SAFETY DATA SHEETS（SDS）

Prepared for	:	Huizhou superstar Technology Co., Ltd
Address	:	No.29 Shiwan road Shiwan Town, Boluo County, Huizhou City, Guangdong Province, P.R.China
Prepared by	:	EMTEK(GUANGZHOU) CO., LTD.
Address	:	1/F&4/F, BUILDING A, No.38, NANXIANG 3RD ROAD, SCIENTECH PARK, GUANGZHOU, GUANGDONG, CHINA
Tel	:	+86-020-82553111
Fax	:	+86-020-82553162
Report Number	:	EGZ2403070047C00101RM1
Date of Conduct	:	Mar. 15, 2024
Date of Report	:	Mar. 18, 2024
Revise Date	:	Mar. 21, 2024

,

Signed for and on behalf of EMTEK(Guangzhou) Co., Ltd.

Prepared by:	Reviewed by:	Approved by:
Long Lingfang, Lynn	Sun Wei, Ethan	Yu Chunhua, Jay Yu
Assistant engineer	Technical supervisor	Authorized signatory
		Mar. 21, 2024

Test results are only responsible for delivered samples. This test report is issued by the company and is intended for your exclusive use. This test report includes all of the testes requested by you and the results thereof based upon the information that you provided. You have 30 days from data of issuance of this test report to notify us of any error or omission caused by our negligence. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

1- Identification of the substance /preparation and of the company/undertaking

Product identifier

Product name	:	Rechargeable Lithium-ion Battery 2000mA
Model	:	953450
Parameter	:	3.7V 2000mAh 7.40Wh
Unique Formula Identifier(UFI)	:	N/A
CAS No.	:	Refer to section 3
EC No.	:	Refer to section 3

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	:	/
Uses advised against	:	/

Details of the supplier of the safety data sheet

Manufacturer	:	Huizhou superstar Technology Co., Ltd
Address	:	No.29 Shiwan road Shiwan Town, Boluo County, Huizhou City, Guangdong Province, P.R.China
Post code	:	/
Telephone	:	/
Fax	:	/
E-mail address	:	/

Emergency telephone number

Emergency phone	:	

Test results are only responsible for delivered samples. This test report is issued by the company and is intended for your exclusive use. This test report includes all of the testes requested by you and the results thereof based upon the information that you provided. You have 30 days from data of issuance of this test report to notify us of any error or omission caused by our negligence. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

2 – Hazards Identification

Hazards Classification : In accordance with regulation (EC) No. 1272/2008(CLP), Classification of the substance or mixture, the sample is divided into class 9.

Main Hazards : Batteries in short circuits, over-charging or under extreme thermal conditions may leak fluid and potentially explosive.

Invasion route :

: **Eye contact** : Normal use under no special hazards, battery damage caused by severe stimulation or chemical burns.

: **Skin contact** : Normal use without special hazards, damage to the skin caused by skin irritation or chemical burns.

: **Inhalation** : Inhalation of the material caused by mist may cause respiratory irritation. Inhalation of smoke may cause metal smoke disease, which is characterized by flu-like symptoms, manifested as metallic taste, fever, chills, coughs, weakness, chest pain. Causing severe irritation to the upper respiratory tract, coughing, burning, breathing difficulties and possibly coma.

: **Ingestion** : May cause serious and permanent damage to the digestive tract. May cause circulatory failure. Battery damage may cause severe chemical burns in the mouth, esophagus and gastrointestinal tract.

Other hazards The mixture does not contain PBT/vPvB substance
The mixture does not contain endocrine disruptor

Test results are only responsible for delivered samples. This test report is issued by the company and is intended for your exclusive use. This test report includes all of the testes requested by you and the results thereof based upon the information that you provided. You have 30 days from data of issuance of this test report to notify us of any error or omission caused by our negligence. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

3- Composition / Information on Ingredients

Substance or Preparation: Preparation

Component/Substance	% by wt	CAS Number	EINECS Number	Classification
$LiNi_{0.5}Co_{0.2}Mn_{0.3}O_2$	47.2%	N/A	N/A	None
Carbon (C)	20.5%	7440-44-0	231-153-3	None
Al	5.1%	7429-90-5	231-072-3	None
Cu	7.5%	7440-50-8	231-159-6	Aquatic Chronic 2
PP	3.5%	39382-08-6	254-438-4	None
$LiPF_6$	5.3%	21324-40-3	244-334-7	Acute Tox. 3 Skin Corr. 1 AEye Dam. 1 STOT RE 1
EC	5.3%	96-49-1	202-510-0	Acute Tox. 4 Eye Irrit. 2 STOT RE 2
EMC	5.3%	623-53-0	613-014-2	Flam. Liq. 2
Ni	0.3%	7440-02-0	231-111-4	Skin Sens. 1 Carc. 2 STOT RE 1

Note: CAS Number is Chemical Abstract Service Registry Number.
EINECS Number is EUROPEAN Inventory of Existing Commercial Chemical Substance.
N/A denote not applicable.

Test results are only responsible for delivered samples. This test report is issued by the company and is intended for your exclusive use. This test report includes all of the testes requested by you and the results thereof based upon the information that you provided. You have 30 days from data of issuance of this test report to notify us of any error or omission caused by our negligence. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

4 - First Aid Measures

Description of first aid measures : The hazardous components of this cell or battery are contained within a sealed unit. The following measures are only applicable if exposure has occurred to components when a cell or battery leaks, is exposed to high temperatures or is mechanically, electrically or physically abused/damaged.

Inhalation : If breathed in, remove to fresh air immediately. Keep the respiratory tract smooth. Use oxygen if available. Get medical aid.

Skin Contact : Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician. First treatment with calcium gluconate paste.

Eye Contact : If contact with eyes, flush the eyes with plenty of water or saline water at least 15 minutes. Get medical aid at once

Ingestion : If swallowed, do not induce vomiting without medical advice. Rinse mouth with water. Never give anything by mouth to an unconscious person. Seek medical advice immediately and show this container or label.

Most important symptoms and effects, both acute and delayed

ACUTE: The contents of the battery are rated as corrosive. Ingestion of the electrolyte could lead to severe gastrointestinal tract irritation with nausea, vomiting and potentially burns. Inhalation of vapors may lead to severe irritation of the mouth and upper respiratory tract with a burning sensation, pain, burns and inflammation in the nose and throat; there may also be coughing or difficulty breathing. Eye contact may lead to severe eye irritation or in worst case scenario irreversible damage and possible eye burns. Skin contact may lead to irritation and possible skin burns.

CHRONIC: Skin contact may aggravate/exacerbate existing skin conditions, such as dermatitis. Chronic inhalation may lead to the same symptoms as listed for acute inhalation above.

Protection of first-aiders

Wear suitable protective clothing, gloves, eye/face protection and self-contained breathing apparatus in pressure-demand if necessary.

Immediate medical care and special treatment

ADVICE TO DOCTOR: Treat symptomatically if the person comes into contact with the corrosive electrolyte liquid contents of a damaged battery.

Test results are only responsible for delivered samples. This test report is issued by the company and is intended for your exclusive use. This test report includes all of the testes requested by you and the results thereof based upon the information that you provided. You have 30 days from data of issuance of this test report to notify us of any error or omission caused by our negligence. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

5 - Fire-Fighting Measures

Extinguishing media

Suitable Fire Extinguishing Media	:	Use powder, carbon dioxide and dry sand.
Unsuitable Fire Extinguishing Media	:	The metal contained in the battery will react violently when encountering water, thus producing hydrogen gas. Using water to extinguish a fire may cause an explosion.
Special hazard arising from the substance or mixture	:	In the event that this battery has been ruptured, the electrolyte solution contain within the battery would be flammable. Like any sealed container, battery cells may rupture when exposed to excessive heat; this could result in the release of flammable or corrosive materials.

Advice for firefighters

Special fire fighting procedures	:	In case of fire in an adjacent area, use water, CO2 or dry chemical extinguishers if batteries in their original containers since the fuel of the fire is basically paper products. For bulk quantities of unpackaged batteries use suitable extinguishers. In this case, do not use water.
Protective Equipment	:	Wear suitable protective clothing, gloves, eye/face protection and self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear
Additional information	:	If possible, remove cell(s) from fire fighting area. If heated above 125°C, cell(s) can explode/vent.

Test results are only responsible for delivered samples. This test report is issued by the company and is intended for your exclusive use. This test report includes all of the testes requested by you and the results thereof based upon the information that you provided. You have 30 days from data of issuance of this test report to notify us of any error or omission caused by our negligence. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

6 - Accidental Release Measures

Person precautions protective equipment and emergency procedures	:	If the battery is released, remove personnel from area until fumes dissipate. Provide maximum ventilation to clear out hazardous gases. The preferred response is to leave the area and allow the vapors to dissipate. Avoid skin and eyes contact or inhalation of vapors. Remove spilled liquid with absorbent and incinerated. If leakage of the battery happens, liquid could be absorbed with sand, earth or other inert substance and contaminated area should be ventilated meantime.
Environment precautions	:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Methods and materials for containment and cleaning up	:	Evacuate spill area immediately and remove sources of ignition. Do NOT touch spilled material. Cleanup personnel must be trained in the safe handling of this product. Spills may be absorbed on non-reactive absorbents such as vermiculite. Place cells or batteries into individual plastic bags and then place into appropriate containers and close tightly for disposal. Ensure that cleanup procedures do not expose spilled material to any moisture. Immediately transport closed containers outside. Lined steel drums are suitable for storage of damaged cells or batteries until proper disposal can be arranged.
Reference to other sections	:	Method for disposal (see section 13).

Test results are only responsible for delivered samples. This test report is issued by the company and is intended for your exclusive use. This test report includes all of the testes requested by you and the results thereof based upon the information that you provided. You have 30 days from data of issuance of this test report to notify us of any error or omission caused by our negligence. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

7 - Handling and Storage

Handling precautions :

Do not use or store the battery where is exposed to extremely hot, such as under window of a car in direct sunlight in a hot day. Otherwise, the battery may be overheated. This can also reduce battery performance and/or shorten service life.

Do not immerse the battery in water or allow it to get wet.

Do not use or store the battery near sources of heat such as a fire or heater.

Do not reverse the positive(+) and negative(-) terminals

Do not connect the battery directly to wall outlets or car cigarette-lighter sockets.

Do not put the battery into a fire or apply direct heat to it.

Do not short-circuit the battery by connecting wires or other metal objects to the positive(+) andnegative (-) terminals

Do not pierce the battery casing with a nail or other sharp object, break it open with a hammer, or step on it !

Do not strike, throw or subject the battery to physical shock

Do not directly solder the battery terminals

Do not place the battery in a microwave oven or pressurized container

Do not use the battery in combination with primary batteries(such as dry-cell batteries) or batteries of different capacity, type or brand

Do not use the battery if it gives off an odor, generates heat, becomes discolored or deformed, or appears abnormal in any way. If the battery is in use or being recharged, remove it from the device or charger immediately and discontinue use.

Storing notes : Cells or batteries should be stored in clean, dry and ventilated rooms with an ambient temperature of -5 °C ~ 35 °C and relative humidity ⩽ 75 %. They should avoid contact with corrosive substances and should be away from fire and heat sources

The battery should be transported at about 30-50% capacity

Other Precautions : Batteries may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity.

Test results are only responsible for delivered samples. This test report is issued by the company and is intended for your exclusive use. This test report includes all of the testes requested by you and the results thereof based upon the information that you provided. You have 30 days from data of issuance of this test report to notify us of any error or omission caused by our negligence. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

8 - Exposure Controls / Personal Protection

Control parameters

Occupational exposure limits : No available data.

Exposure controls

Monitoring Method : No available data.

Appropriate engineering controls : Use explosion-proof ventilation equipment. Equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal protective equipment

Respiratory Protection : During routine operation, a respirator is not required. However, if dealing with an electrolyte leakage and irritating vapors are generated, an approved half face inorganic vapor and gas/acid/particulate respirator is required.

Eye Protection : Not necessary under normal use. Wear safety goggles or glasses with side shields if handing a leaking of rupture battery.

Body Protection : Not necessary under normal use. Wear suitable protective clothing if handing a leaking of rupture battery.

Hands Protection : Hand protection is not required when handling the cell or battery during normal use.PVC gloves are recommended when dealing with a leaking or ruptured cell or battery.

Other Protection : No smoking, dining and drinking water in the workplace. Keep good habit of hygiene. Shower and change clothes after work.

Test results are only responsible for delivered samples. This test report is issued by the company and is intended for your exclusive use. This test report includes all of the testes requested by you and the results thereof based upon the information that you provided. You have 30 days from data of issuance of this test report to notify us of any error or omission caused by our negligence. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

9 - Physical and Chemical Properties

Physical state:	: Solid	Odor	: No available data
Colour	: No available data	pH	: No available data
Melting point	: No available data	Density	: No available data
Boiling point or initial boiling point and boiling range (°C)	: No available data	Flashing Point	: No available data
Evaporation rate	: No available data	Flammability(solid,gas)	: No available data
Relative vapor pressure	: No available data	Relative vapor density	: No available data
Viscosity (mPas)	: No available data	Coefficient of thermal conductivity	: No available data
Decomposition temperature	: No available data	Auto-ignition temperature	: No available data
Particle characteristics:	: No available data.	Kinematic viscosity ($mm^{2/s}$):	: No available data.
Solubility	: No available data		

10 - Stability and Reactivity

Reactivity	: Stable under recommended storage conditions.
Stability	: Stable under normal conditions of use, storage and transport.
Conditions To Avoid	: Avoid to be exposed to direct sunlight, high temperature or humidity, short-circuit.
Incompatible materials	: Conductive materials, water, strong oxidizers and strong acids.
Polymerization	: No available data
Hazardous Decomposition Products	: In case of fire, it will decompose to produce harmful

Test results are only responsible for delivered samples. This test report is issued by the company and is intended for your exclusive use. This test report includes all of the testes requested by you and the results thereof based upon the information that you provided. You have 30 days from data of issuance of this test report to notify us of any error or omission caused by our negligence. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

substances. - Carbon oxides, other irritating and toxic gases.

11 - Toxicological Information

Acute Toxicity	:	The battery does not elicit toxicological properties during routine handling and use. If the battery is opened through misuse or damage, discard immediately. Internal components of cell are irritant and sensitization.
Skin corrosion/irritation	:	No available data.
Serious eye damage/eye irritation	:	Smoke from broken batteries can irritate the eyes, trachea and lungs.
Respiratory or skin sensitisation	:	No available data.
Germ cell mutagenicity	:	No available data.
Carcinogenicity	:	No available data.
Reproductive toxicity	:	No available data.
Specific target organ toxicity-single exposure	:	No available data.
Specific target organ toxicity-repeated exposure	:	No available data.
Aspiration hazard	:	No available data.
Information on other hazards	:	The mixture does not contain endocrine disruptor
Endocrine disrupting properties		
Additional information	:	Inhalation, skin contact and eye contact are possible when the battery is opened. Exposure to internal contents, the corrosive fumes will be very irritation to skin, eyes and mucous membranes. Overexposure can cause symptoms of non-fibrotic lung injury and membrane irritation.

Test results are only responsible for delivered samples. This test report is issued by the company and is intended for your exclusive use. This test report includes all of the testes requested by you and the results thereof based upon the information that you provided. You have 30 days from data of issuance of this test report to notify us of any error or omission caused by our negligence. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

12 - Ecological Information

Toxicity	:	No available data.
Persistence and degradability	:	No available data.
Bioaccumulative potential	:	Slowly Bio-degradable.
Mobility in soil	:	No available data.
Results of PBT and vPvB assessment	:	No available data.
Endocrine disrupting properties	:	The mixture does not contain endocrine disruptor
Other adverse effects	:	When properly used and disposed, the battery does not present environmental hazard. Do not let internal components enter marine environment. Avoid releasing to water ways, wastewater or ground water.

13 - Disposal Considerations

Waste disposal methods

Product	:	Deserted batteries couldn't be treated as ordinary trash. Couldn't be thrown into fire or placed in high temperature. Couldn't be dissected, pierced, crushed or treated similarly.Best way is recycling.
Contaminated packaging	:	Dispose of as unused product.
Attention for Waste Treatment	:	etely discharged prior to disposal and/or the terminals taped or capped to prevent short circuit. When completely discharged it is not considered hazardous Dispose according to national and local laws and regulations.

Test results are only responsible for delivered samples. This test report is issued by the company and is intended for your exclusive use. This test report includes all of the testes requested by you and the results thereof based upon the information that you provided. You have 30 days from data of issuance of this test report to notify us of any error or omission caused by our negligence. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

14 - Transport Information

Transport Attentions:

This report applies to by sea, by air and by land;

The lithium battery is tested and has passed in accordance with UN manual of Tests and Criteria, Part III, subsection 38.3.

The lithium battery shall be complied with the requirements of Section Ⅱ/Section IB of PACKING INSTRUCTION 965, or Section Ⅱ of PACKING INSTRUCTION 966~967 of the 2024 IATA Dangerous Goods regulations 65th Edition may be transported. And applicable U.S.DOT regulations for the safe transport of lithium battery

Cell and batteries offered for transport must be packed in inner packaging's that completely enclose the cell or battery; to provide protection from damage or compression to the batteries, the inner packaging's must be placed in a strong rigid outer packaging;

The packaging shall be adequate to avoid mechanical damage during transport, handling and stacking. The materials and pack design shall be chosen so as to prevent the development of unintentional electrical conduction, corrosion of the terminals and ingress of moisture.

The package must be handled with care and that a flammability hazard exists if the package is damaged; Each package must be labeled with a Lithium Battery handling label or in addition the Class 9 hazard label.

According to the special provision 188 of IMDG (41-22), the goods are not subject to other provision of this code. Lithium ion batteries are not subject to dangerous goods regulation for the purpose of transportation by

the International Maritime Dangerous Goods regulations(IMDG). For Lithium ion batteries, the Watt-hour

rating is no more than 20Wh/cell and 100Wh/battery pack can be treated as "non-dangerous goods" by the

With regard to transport, the following regulations are cited and considered.

-The international Civil Aviation Organization(ICAO) Technical Instructions.

-The international Air transport Association(IATA) Dangerous Goods Regulations.

-The International Maritime Dangerous Goods(IMDG) Code.

-The products are not subject to dangerous goods.

Maritime transport IMDG

IMDG Code	:	Assigned to the miscellaneous class 9.
UN-Number	:	UN3480 or UN3481

Test results are only responsible for delivered samples. This test report is issued by the company and is intended for your exclusive use. This test report includes all of the testes requested by you and the results thereof based upon the information that you provided. You have 30 days from data of issuance of this test report to notify us of any error or omission caused by our negligence. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

Label	:	
Packing group	:	PI965/PI966/PI967
Proper shipping name	:	Lithium ion batteries or Lithium ion batteries packed with equipment or Lithium ion batteries contained in equipment(including lithium ion polymer batteries)

DOT regulations

Hazard class	:	Assigned to the miscellaneous class 9.
UN-Number	:	UN3480 or UN3481
Label	:	
Packing group	:	PI965/PI966/PI967
Proper shipping name	:	Lithium ion batteries or Lithium ion batteries packed with equipment or Lithium ion batteries contained in equipment(including lithium ion polymer batteries)

Air transport ICAO-TI and IATA-DGR

Hazard class	:	Assigned to the miscellaneous class 9.
UN-Number	:	UN3480 or UN3481
Label	:	
Packing group	:	PI965/PI966/PI967
Proper shipping name	:	Lithium ion batteries or Lithium ion batteries packed with equipment or Lithium ion batteries contained in equipment(including lithium ion polymer batteries)

Test results are only responsible for delivered samples. This test report is issued by the company and is intended for your exclusive use. This test report includes all of the testes requested by you and the results thereof based upon the information that you provided. You have 30 days from data of issuance of this test report to notify us of any error or omission caused by our negligence. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

German regulations concerning the classification of hazard for water (WGK)	:	Not listed
Substance of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)	:	Not listed
The conditions of restrictions according to Regulation (EC) No. 1907/2006 (REACH) Article 67 and Annex XVII for the manufacturing, placing on the market and use must be observed	:	Not listed
Regulation (EC) No. 1907/2006 (REACH) Annex XVII(requiring Authoursation for use)	:	Not listed
Regulation (EC) No. 1907/2006 (REACH)-Pre-registered substance.	:	Not listed
Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer	:	Not listed
Regulation (EC) No 649/2012 concerning the export and import of dangerous chemicals, Annex I	:	Not listed
ELINECS(European List of Notified Chemical Substances)	:	Not listed
Particular provisions	:	No available data.

Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.
OSHA HCS 29 CFR 1910.1200:2012
Globally Harmonized System of Classification and Labelling of Chemicals (GHS).
For other detail regulation you should be contacted the appropriate agency in your country, or refer to domestic, EU/international regulations.

Test results are only responsible for delivered samples. This test report is issued by the company and is intended for your exclusive use. This test report includes all of the testes requested by you and the results thereof based upon the information that you provided. You have 30 days from data of issuance of this test report to notify us of any error or omission caused by our negligence. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

16 - Other Information

ACGIH	:	American Conference of Governmental Industrial
ADR	:	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	:	Chemical Abstracts Service
CLP	:	Classification Packaging and Labelling
EC	:	European Commission
ECHA	:	European Chemicals Agency
EINECS	:	The European Inventory of Existing Commercial Chemical Substances
GHS	:	Globally Harmonised System of Classification and Labelling of Chemicals
IARC	:	International Agency for Research on Cancer
IATA	:	International Air Transport Association
IBC Code	:	International code for the construction and equipment of ships carrying dangerous chemical in bulk
ICAO	:	International Civil Aviation Organization
IMDG	:	International Maritime Dangerous Goods
IC50	:	Inhibitory Concentration fifty
LC50	:	Lethal Concentration fifty
LD50	:	Lethal Dose fifty per cent.
MARPOL	:	International Convention for the Prevention of Pollution From Ships
REACH	:	Registration Evaluation And Authorisation Of Chemicals
RID	:	Regulations Relating to International Carriage of Dangerous Goods by Rail
RTECS	:	Registry of Toxic Effects of Chemical Substances
STEL	:	Short term exposure limit
TWA	:	Time-Weighted Average
OSHA	:	Occupational Safety and Health Administration
NIOSH	:	National Institute for Occupational Safety and Health
TLV-TWA	:	Threshold Limit Value-Time Weighted Average
TLV-STEL	:	Threshold Limit Value-Short Term Exposure Limit
PEL	:	Permissible Exposure Limit
MAK	:	Maximale Arbeitsplatz-Konzentration...

Test results are only responsible for delivered samples. This test report is issued by the company and is intended for your exclusive use. This test report includes all of the testes requested by you and the results thereof based upon the information that you provided. You have 30 days from data of issuance of this test report to notify us of any error or omission caused by our negligence. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

Date: Mar. 18, 2024

Data Audit Units: EMTEK(GUANGZHOU) CO., LTD.

Disclaimer: The information in this Safety Data Sheet (SDS) was obtained from sources which we believe are reliable; however, the information is provided without any representation of warranty, expressed or implied, regarding the accuracy or correctness. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with the handling, storage, use, or disposal of this product. All information, recommendations, and suggestions appearing herein concerning this product are taken from sources or based upon data believed to be reliable.

Declaration: Report EGZ2403070047C00101R was repealed and replaced by Report EGZ2403070047C00101RM1.

End of MSDS

Test results are only responsible for delivered samples. This test report is issued by the company and is intended for your exclusive use. This test report includes all of the testes requested by you and the results thereof based upon the information that you provided. You have 30 days from data of issuance of this test report to notify us of any error or omission caused by our negligence. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

声 明
Statement

1.本检测报告首页所列信息中除样品来源、接样日期、检测日期、检测结果和检测结论外，均由委托方提供，委托方对样品的代表性和资料的真实性负责，本实验室不承担任何相关责任。
The information as listed on the first page of this test report was all provided by the client except the sample from, date received, test period, test results and test conclusion. The client shall be responsible for the representativeness of sample and authenticity of materials, for which EMTEK shall bear no responsibilities.

2.本检测报告以实测值进行符合性判定，未考虑不确定度所带来的风险，特别约定、标准或规范中有明确规定的除外。此种判定方式所带来的风险由客户自行承担，本实验室不承担相关责任。
The judgment method of determining the conformity in this test report is according to the measured value without considering the risk caused by uncertainty, unless otherwise clearly stipulated in special agreement, standard or specification. The client shall assume the risk caused by the judgment method, and EMTEK shall not bear related responsibilities.

3. 检测报告无批准人签字及“检验检测专用章”无效，未经本实验室书面同意，不得整体或部分复制本报告。
The test report is effective only with both signature and specialized stamp. Without written approval of EMTEK, this report can't be reproduced in full or in part.

4.本检测报告的检测结果仅对送测样品负责，未加盖资质认定标志的检测报告不对社会具有公证证明作用，对于检测数据、结果的使用，所产生的直接或间接损失及一切法律后果，本实验室不承担任何经济和法律责任。
This test data is only responsible for the tested sample. The data and results provided by the report without CMA accreditation are not to prove to the society, and EMTEK is not responsible for any economic and legal responsibility for the use of the test data, the direct or indirect losses resulting from the use of the test and all legal consequences.

5.本检测报告中检测项目标注有特殊符号则该项目不在本实验室资质认定能力范围内，该项目检测结果仅作为客户委托、科研、教学或内部质量控制等目的使用。
The test items are marked with special symbols in the report is out of the scope of CMA accreditation. The test result only used for client's requirement, scientific researching ,teaching or internal quality control.

6.其它声明请查阅报告页脚及书面报告背页。
For other statements, please refer to the footer of the report.

Test results are only responsible for delivered samples. This test report is issued by the company and is intended for your exclusive use. This test report includes all of the testes requested by you and the results thereof based upon the information that you provided. You have 30 days from data of issuance of this test report to notify us of any error or omission caused by our negligence. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

签发测试报告条款
Conditions of Issuance of Test Reports

1. 广州信测标准技术服务有限公司（以下简称[本公司]）为提供符合下述条款的测试和报告，而接受有关样品和货品。本公司基于下述条款提供服务，下述条款为本公司与申请服务的个人，企业或公司（以下简称[客户]）的协议。
All samples and goods are accepted by the EMTEK(Guangzhou) Co., Ltd. (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the Company and any person, firm or company requesting its services (the "Clients").

2. 由此测试申请所发出的任何报告（以下简称[报告]），本公司会严格为客户保密。未经本公司的书面同意，报告的整体或部分不得复制，也不得用于广告或授权的其他用途。然而，客户可以将本公司印制的报告或认可的副本，向其客户、供货商或直接相关的其他人出示或提交。除非相关政府部门、法律或法规要求，否则未经客户同意，本公司不得将报告内容向任何第三方讨论或披露。
Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.

3. 除非相关政府部门、法律或法院要求，否则未经公司预先书面同意，本公司毋需，也并无义务到法院对有关报告作证。
The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.

4 .如果本公司确定报告被不当地使用，本公司保留撤回报告的权利，并有权要求其它适当的额外赔偿。
In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.

5.本公司接受样品进行测试的前提是，该测试报告不能作为针对本公司法律行动的依据。
Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.

6.如因使用本公司中心任何报告内的资料，或任何传播信息所描述与之有关的测试或研究导致的任何损失或损害，本公司概不负责。
The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.

7.若需要在法院审理程序或者仲裁过程中使用测试报告，客户必须在提交测试样品前将该意图告知本公司。
Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.

8. 该测试报告的支持数据和信息本公司保存 10 年。个别评审机构有特别要求的，检测数据和报告的保存期可依情况变动。一旦超过上述提交的保存期限，数据和信息将被处理掉。任何情况下，本公司不必提供任何被处理的过期数据或信息。即使本公司事先被告知可能会发生相关的损害，本公司在任何情况下也不必承担任何损害，包括（但不限于）补偿性赔偿、利润损失、数据遗失、或任何形式的特殊损害、附带损害、间接损害、从属损害或任何违反约定、违反承诺、侵权（包括疏忽）、产品责任或其他原因的惩罚性损害。
Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of ten years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

Test results are only responsible for delivered samples. This test report is issued by the company and is intended for your exclusive use. This test report includes all of the testes requested by you and the results thereof based upon the information that you provided. You have 30 days from data of issuance of this test report to notify us of any error or omission caused by our negligence. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

广州信测标准技术服务有限公司 / 地址：广州市黄埔区南翔三路38号A栋101房、401房、402房、403房、404房、405房、406房 / 网址：Http://www.emtek.com.cn / 邮箱：szc.cs4@emtek.com.cn
EMTEK（Guangzhou）Co., Ltd Add: 1/F&4/F, Building A, No.38, Nanxiang 3rd Road, Huangpu District, Guangzhou,Guangdong,China
Http://www.emtek.com.cn E-mail: szc.cs4@emtek.com.cn