



SDS REPORT

No. GSL20200604002E

Date: Jun. 11, 2020

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Report no. : GSL20200604002E
Applicant : JIANGSU HUAFEI ALLOY MATERIAL TECHNOLOGY CO., LTD
Address : INDUSTRY CENTER OF XINGTAI TOWN, JIANGYAN DISTRICT, TAIZHOU CITY, JIANGSU PROVINCE, CHINA
Product Name : STAINLESS STEEL WIRE
Composition/Ingredient : SEE SECTION 3 ON THE SDS
Summary : AS PER REQUEST, THE CONTENTS AND FORMATS OF THE SDS ARE PREPARED IN ACCORDANCE WITH REGULATION (EC) NO 1907/2006, 1272/2008, REGULATION (EU) NO 2015/830 AND ARE PROVIDED PER ATTACHED.



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上海量规检测技术有限公司

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

- **Trade name:** STAINLESS STEEL WIRE
- **Registration number:** Data not available
- **Other means of identification:** Data not available

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

- **Application of the substance/ mixture:** Make-up accessory.
- **Uses advised against:** All other uses.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

JIANGSU HUAFEI ALLOY MATERIAL TECHNOLOGY CO., LTD

Industry Center of Xingtai Town, Jiangyan District, Taizhou City, Jiangsu Province, China

Tel: +086 13921700878

Email: sales@hf-alloy.com

- **Only Representative/other EU contact point:** Information not available

- **Further information obtainable from:** JIANGSU HUAFEI ALLOY MATERIAL TECHNOLOGY CO., LTD

1.4 Emergency telephone number

General in EU

Tel: 112 (Available 24 hours a day)

In China:

Aiyang Xu

Tel: +086 13921700878 (Available 24 hours a day)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to regulation (EC) 1272/2008: The product is not classified according to CLP Regulation.

Classification system:

The classification is according to the latest edition of Regulation 1272/2008, and extended by company and literature data.

2.2 Label elements

• **Labeling according to Regulation (EC) No 1272/2008:** The product is not labeled according to CLP Regulation.

• **Hazard pictograms:** No applicable

• **Signal word:** No applicable

• **Hazard-determining components of labeling:** No applicable

• **Hazard statements:** No applicable

• **Precautionary statement:** No applicable

2.3 Other hazards

• **Results of PBT and vPvB assessment**

PBT: Not applicable

vPvB: Not applicable



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SECTION 3: Composition/information on ingredients

- **3.1 Chemical characterization: Substance**
- **Description:** The substances listed below with nonhazardous addition.

Substance	CAS No.	Index No.	EC No.	Conc. w/w	CLP Classification	SCL/M-factor
Stainless steel	12597-69-2	-	-	100%	None	-

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
General advice: No special immediate medical attention required normally.
After inhalation: Will not happen.
After skin contact: No special measure required normally.
After eye contact: Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.
After swallowing: Rinse mouth with water.
- **4.2 Most important symptoms and effects, both acute and delayed:** No known symptoms or effects.
- **4.3 Indication of any immediate medical attention and special treatment needed:** No special immediate medical attention or treatment needed.

SECTION 5: Fire-fighting measures

- **5.1 Extinguishing media**
• **Suitable extinguishing agents:** Not flammable solid, use the suitable surrounding condition.
• **Unsuitable extinguishing media:** No special unsuitable extinguishing media.
- **5.2 Special hazards arising from the substance or mixture:** No special hazards arising from the substance.
- **5.3 Advice for firefighters**
Protective equipment: Wear an approved positive pressure self-contained breathing apparatus.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures:** No special personal precautions, protective equipment and emergency procedures required.
- **6.2 Environmental precautions:**
Do not allow the product to enter sewers/surface or ground water; Inform respective authorities in case of seepage into water course or sewage system.
- **6.3 Methods and material for containment and cleaning up:**
Pick up mechanically; Dispose contaminated material as waste according to item 13.
- **6.4 Reference to other sections:**
See section 7 for information on safe handling; See section 8 for information on personal protection equipment; See section 13 for disposal in formation.



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SECTION 7: Handling and storage

- **7.1 Precautions for safe handling:** No special precaution required
- **Information about fire and explosion protection:** Normal measures for preventive fire protection.
- **7.2 Conditions for safe storage, including any non-compatibility**
- **Requirements to be met by storerooms and receptacles:** Store in a dry place.
- **Information about storage in one common storage facility:** Keep away from strong acid and moisture.
- **Further information about storage conditions:** No further requirements.
- **7.3 Specific end use(s):** See section 1.2.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:** Will not form dust in air.
- **DNELs:** Data not available.
- **PNECs:** Data not available.
- **Additional information:** The lists valid during the marking were used as basis.
- **8.2 Exposure controls**
- **Based on the composition shown in section 3, the following measures are suggested for occupational safety measure.**
- **Appropriate engineering controls:**
Handle in accordance with good industrial hygiene and safety practice; Ensure good ventilation; See section 7 for information about design of technical facilities.
- **Personal protective equipment**
- **Respiration protection:** No special respiration protection required
- **Protection of hands:** No special protection of hands required.
- **Eye protection:** No special eye protection required.
- **Environmental exposure controls:**
Control measures must be made in accordance with Community environmental protection legislation.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:

Form	Solid
Color	Silver
Odor	Odorless
Odor threshold	Not applicable
pH-value	Not determined
Change in condition	
Melting point/melting range	1538°C
Boiling point and boiling range	2750°C
Freezing point	Not determined
Flash point	Not determined
Flammability(solid, gas)	Not flammable solid
Decomposition temperature	Not determined
Self-ignition	Not determined
Danger of explosion	Product does not present explosive hazard.
Explosion limits	
Lower:	Not explosive
Upper:	Not explosive



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• Oxidizing properties	<i>No oxidation</i>
• Vapor pressure	<i>Not determined</i>
• Density	<i>7.8-8.0 g/cm³ at 20 °C</i>
• Relative density	<i>Not determined</i>
• Vapor density	<i>Not determined</i>
• Evaporation rate	<i>Not determined</i>
• Solubility in/Miscibility with	
Water	<i>Insoluble in water</i>
• Partition coefficient (n-octanol/water)	<i>Not determined</i>
• Viscosity	
Dynamic	<i>Not determined</i>
Kinematic	<i>Not determined</i>
• 9.2 Other information	<i>Not determined</i>

SECTION 10: Stability and reactivity

- **10.1 Reactivity:** *No decomposition if used according to specification.*
- **10.2 Chemical stability:** *Stable under recommended storage conditions.*
- **10.3 Possibility of hazardous reactions:** *No hazardous reaction known.*
- **10.4 Conditions to avoid:** *Moisture condition.*
- **10.5 Incompatible materials:** *Strong acid.*
- **10.6 Hazardous decomposition products:** *No known hazardous decomposition products.*

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:** *Based on available data, the classification criteria are not met.*
- **LD/LC50 values relevant for classification:** *No animal test has been done for this product or the components.*
- **Skin corrosion/irritation:** *Based on available data, the classification criteria are not met.*
- **Serious eyes damage/ irritation:** *Based on available data, the classification criteria are not met.*
- **Respiratory or skin sensitization:** *Based on available data, the classification criteria are not met.*
- **Germ cell mutagenicity:** *Based on available data, the classification criteria are not met.*
- **Carcinogenicity:** *Based on available data, the classification criteria are not met.*
- **Reproductive toxicity:** *Based on available data, the classification criteria are not met.*
- **STOT-single exposure:** *Based on available data, the classification criteria are not met.*
- **STOT-repeated exposure:** *Based on available data, the classification criteria are not met.*
- **Aspiration hazard:** *Based on available data, the classification criteria are not met.*



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SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** Not hazardous to the aquatic environment.
- **12.2 Persistence and degradability:** Inorganic substance.
- **12.3 Bio-accumulative potential:** Low bio-accumulation.
- **12.4 Mobility in soil:** Low mobility in soil.
- **12.5 Results of PBT and vPvB assessment**
PBT: Not applicable
vPvB: Not applicable
- **12.6 Other adverse effects:** No known other adverse effects.
- **12.7 Additional ecological information**
- **General notes:** Water hazard class 1 (German Regulation) (self-assessment): Low hazardous for water.
 Do not allow large quantities of the product to reach ground water, water course or sewage system.

SECTION 13: Disposal consideration

- **13.1 Waste treatment methods**
- **Recommendation:** Small quantities can be disposed together with household garbage; Large quantities disposed must be in according to the local regulation.
- **13.2 Un-cleaned packaging**
- **Recommendation:** Dispose of contents/container in according to the local regulation.

SECTION 14: Transport information

• 14.1 UN-Number ADR, RID, AND, IMDG, IATA	Not regulated as dangerous transport goods
• 14.2 UN proper shipping name ADR, RID, AND, IMDG, IATA	Void
• 14.3 Transport hazard class (es) ADR, RID, AND, IMDG, IATA Class Label	Void Void
• 14.4 Packing group ADR, RID, AND, IMDG, IATA	Void
• 14.5 Marine pollution	No
• 14.6 Special precautions for user	Void
• 14.7 UN "Model Regulation"	Void





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SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **MAK (German Maximum Workplace Concentration):** Not listed.
- **Directive 2012/18/EU**
- **Named dangerous substances-ANNEX I:** Not listed.
- **National regulations.**
- **Water hazard class:** Water hazard class 1 (German Regulation) (self-assessment): Low hazardous for water.
- **Other regulations, limitations and prohibitive regulations**
- **SVHC Candidate list of REACH Regulation Annex XIV Authorization:** Not listed.
- **REACH Regulation Annex XVII Restriction:** Not listed.
- **REACH Regulation Annex XIV Authorization List:** Not listed.
- **15.2 Chemical safety assessment:** A Chemical Safe Assessment has not been carried out.

SECTION 16: Other information

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2015/830.

DISCLAIMER OF LIABILITY:

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or 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 the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road).

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

PBT: Persistent, Bio accumulative and Toxic

SVHC: Substance of Very High Concern

LD50: Lethal dose, 50 percent

LC50: Lethal concentration, 50 percent

End of safety data sheet



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MATERIAL SAFETY DATA SHEET

Issue date:202502-20 Rev: A.0

MSDS REF. NO.: 20250220

LITHIUM-ION RECHARGEABLE BATTERY

MATERIAL SAFETY DATA SHEET

IDENTITY	Product Category	:	Rechargeable Li-ion Battery Pack
	Model Name	:	18500 3.7V 2000mAh 7.4Wh P
	Brand	:	PYTES
	Nominal Capacity	:	2.0 Ah
	Nominal Voltage	:	3.7 V
	Watt-hour	:	7.4 W/hr
	Chemical System	:	Lithium-Ion (Li-ion)
	Designed for Recharge	:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

SECTION 1 MANUFACTURER'S INFORMATION

Manufacturer's Name	:	Shanghai PYTES Energy Co.,LTD
Supplier's Name	:	Shanghai PYTES Energy Co.,LTD
Supplier's Address	:	No.3492,Jinqian Road, Fengxian District, Shanghai, China
Information Telephone	:	+ 0086 (21) 5747-5847
Emergency Telephone	:	+ 0086 (21) 5747-5821
Date Prepared	:	2025/02/20

SECTION 2 Composition

Battery Cell :

Although the chemical composition of the various cell manufacturers is proprietary, the following is typical of the chemistry.

Hazardous Components (Specific Chemical Identity; Common Name(s))	%	CAS NO.	LD50(mg/kg) (oral-rat)	LC50 (mg/L)
Aluminum foil	2-7 w/w	7429-90-5	N/A	N/A
Copper foil	5 -15 w/w	7440-50-8	3.5(ipr-mouse)	N/A
Linear and Cyclic Carbonic Solvents (See other information)	5 -16 w/w	N/APP	≈11000(weighted avg)	N/A
Silicon oxide / graphite Powder	12-22 w/w	10097-28-6	440 (ivn-mouse)	N/A
Lithium Nickel Cobalt Manganese Oxide	30-40 w/w	182442-95-1	N/A	N/A
Poly (vinylidene fluoride) (PVDF)	0.1 -1 w/w	24937-79-9	N/A	N/A
Steel, nickel and inert polymer	0.2 -5 w/w	N/A	N/A	N/A

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These chemicals and metals are contained in a sealed can.

SECTION 3 HAZARDS DATA

3.1 Physical:

The lithium-ion batteries described in this Material Safety Data Sheet are sealed which are not hazardous when used according to the recommendations of the manufacturer.

Under normal conditions of use, electrode materials and liquid electrolyte they contain are non-reactive provided the battery integrity is maintained and seals remain intact, risk of exposure only in case of abuse, e.g. mechanical, thermal, electrical, which leads to the activation of safety valves and/or the rupture of the battery containers. Electrolyte leakage, electrode materials reaction with moisture / water of battery vent/ explosion/fire may follow depending upon circumstances.

3.2 Chemical:

Classification of dangerous Substances Contained into the Product as per Directive

Substance	Chemical symbol	CAS No.	Melting point	Boiling point	Exposure limit	Indication of danger	Special risk (1)	Safety advices(2)
Lithium nickel cobalt manganese oxide	LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂	182442-95-1	>800°C	/	/	/	R36/37 / 38	S22/S24/S25
Organic solvents	EC	96-49-1	38°C	243°C	None established OSHA	Flammable	R21	S2 S24
	DMC	616-38-6	4°C	90°C			R22 R41	S26 S36
	DEC	105-58-8	-43°C	127°C			R42/43	S37 S45

(1). Name of Special Risks:

- R21 Harmful in contact with *skin*
- R22 Harmful us swallowed
- R36/37/38 Irritating to eyes, respiratory system and skin
- R41 Risk of serious damage to the eye
- R42 May cause sensitization by inhalation and skin contact
- R43 May cause sensitization by skin contact

(2). Safety Advices:

- S2 Keep out of reach from children
- S22 Do not breathe dust
- S24 Avoid contact with skin
- S25 Avoid contact with eyes.
- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical attention
- S36 Wear suitable protective clothing
- S37 Wear suitable gloves
- S45 In case of incident, seek medical attention

SECTION 4 First Aid Measures

In case of battery rupture or explosion, evacuate personnel from contaminated area and provide maximum

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ventilation to clear out corrosive fumes/gases and pungent odors.

In all case, seek medical advice immediately,

Eye contact: Flush with plenty of water(eyelids-held open)for at least 15 minutes

Skin contact: Remove all contaminated clothing and flush affected areas with plenty of water and sop for at least 15minutes.

Ingestion: Dilute by giving plenty of water and get immediate medical attention.

Assure that the victim does not aspirate vomited material by use of positional drainage.

Assure that mucus does not obstruct the airway.

Do not give anything by mouth to an unconscious person

Inhalation: Remove to fresh air and ventilate the contaminated area.

Give oxygen or artificial respiration if needed.

SECTION 5 Fire-Fighting Measures

Fire and explosion hazard	The batteries can leak and/or spout vaporized or decomposed and combustible electrolyte fumes in case of exposure above 90°C resulting from inappropriate use or from the environment. Possible formation of hydrogen fluoride (HF) and phosphorous oxides during fire.LiPF6 salt contained in the electrolyte releases hydrogen fluoride (HF) in contact with water.
Extinguishing media	Suitable : CO2, Dry chemical or Foam extinguishers Not to be used : Type D extinguishers
Special exposure hazards:	Following cell overheating due to external source or due to improper use, electrolyte leakage or battery container rupture may occur and release inner component/material in the environment. Eye contact : The electrolyte solution contained in the battery is irritant to ocular tissues. Skin contact : The electrolyte solution contained in the battery causes skin irritation. Ingestion : The ingestion of electrolyte solution causes tissue damage to throat and gastro/respiratory tract. Inhalation : Contents of a leaking or ruptured battery can cause respiratory tract, mucus, membrane irritation and edema.
Special protective equipment	Use self-contained breathing apparatus to avoid breathing irritant fumes. Wear protective clothing and equipment to prevent body contact with electrolyte solution.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions, protective equipment, and emergency procedures	Restrict access to area until completion of clean-up. Do not touch the spilled material. Wear adequate personal protective equipment as indicated in Section 8.
Environmental Precautions	Prevent material from contaminating soil and from entering sewers or waterways.

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Methods and materials for Containment	Stop the leak if safe to do so. Contain the spilled liquid with dry sand or earth. Clean up spills immediately.
Methods and materials for cleaning up	Absorb spilled material with an inert absorbent (dry sand or earth). Scoop contaminated absorbent into an acceptable waste container. Collect all contaminated absorbent and dispose of according to directions in Section 13. Scrub the area with detergent and water; collect all contaminated wash water for proper disposal.

SECTION 7 Handling and Storage

The batteries should not be opened destroyed nor incinerated since they may leak or rupture and release the ingredients they contain into the environment.

Handling	Do not crush, pierce, short (+) and (-) battery terminals with conductive (i.e. metal) goods. Do not directly heat or solder. Do not throw into fire. Do not mix batteries of different types and nds. Do not mix new and used batteries. Keep batteries in non-conductive (i.e. plastic) trays.
Storage	Store in a cool (preferably below 30°C) and ventilated area away from moisture, sources of heat, open flames, food and drink. Keep adequate clearance between walls and batteries. Temperature above 90°C may result in battery leakage and rupture. Since short circuit can cause burn, leakage and rupture hazard, keep batteries in original packaging until use and do not jumble them.
Other	manufacturer recommendations regarding maximum recommended currents and operating temperature range. Applying pressure on deforming the battery may lead to disassembly followed by eye, skin and throat irritation.

SECTION 8.Exposure Controls/Personal Protection

Respiratory protection:	Not necessary under normal use. In case of battery rupture, use self-contained full-face respiratory equipment. equipment with type ABEK filter.
Hand protection:	Not necessary under normal use. Use rubber gloves if handling a leaking or ruptured battery.
Eye protection:	Not necessary under normal use. Wear safety goggles or glasses with side shields if handling a leaking or ruptured battery.
Skin protection:	Not necessary under normal use. Use rubber apron and protective working in case of handling of a ruptured battery.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

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TEL	021-57475847	FAX	021-57475827

9.1 Appearance (Physical shape and color as supplied:)

Cobalt lithium manganese nickel oxide is a Black Powder; Silicon oxide / graphite is a black or odorless power; Organic solvent is a colorless liquid.

9.2 Specific gravity (H₂O=1)

Cobalt lithium manganese nickel oxide: 2.1

Graphite: 0.8-1.0

9.3 Melting point

Silicon oxide / graphite: 2750 ± 50°C

SECTION 10 STABILITY AND REACTIVITY

Conditions to avoid	Heat above 90°C or incinerate. Deform, mutilate, crush, pierce, disassemble. Short circuit. Prolonged exposure to humid conditions.
Materials to avoid	N/A
Hazardous decomposition products	Corrosive/Irritant Hydrogen fluoride (HF) is produced in case of reaction of lithium (LiPF ₆) with water. Combustible vapors and formation of Hydrogen fluoride (HF) and phosphorous oxides during fire.

SECTION 11 TOXICOLOGICAL INFORMATION

The LITHIUM-ION batteries do not contain toxic materials.

SECTION 12 ECOLOGICAL INFORMATION

When properly used or disposed, the LITHIUM-ION batteries do not resent environmental hazard.

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose in accordance with applicable regulations which vary from country to country.

(In more countries, the thrashing of used batteries is forbidden and the end-users are invited to dispose them properly, eventually through not-for-profit organizations, mandated by local governments or organized on a voluntary basis by professionals).

Lithium-Ion batteries should have their terminals insulated and be preferably wrapped in plastic bags prior to disposal.

13.1 Incineration : Incineration should never be performed by battery users but eventually by trained professionals in authorized facilities with proper gas and fumes treatment.

13.2 Land filling : Leach ability regulations (mg/l)

Component	Leach ability	EC limit	EPA	Other*
Iron	100			5
Nickel	500	2		0.5

Add.	No.3492 Jinqian Road, Fengxian District, Shanghai, China	P.C	20250220
TEL	021-57475847	FAX	021-57475827

SECTION 14 Transport information

14.1 Lithium ion batteries containing Watt-hour rating is not more than 100Wh.

14.2 The Lithium-ion battery have been tested under provisions of the UN Manual of Tests and Criteria, the battery is passed the UN 38.3 test, Part III, sub-section 38.3(withstanding a 1.2m drop test) and are classified as non-dangerous goods.

14.3 Lithium-ion batteries can be treated as "Non-dangerous goods" under the United Nations Recommendations on the Transport of Dangerous Goods, Special Provision 188, provided that packaging is strong and prevent the products from short-circuit.

14.4 The Li-ion battery are complied with Section II of PI967 (66th Edition - 2025).

14.5 The consignment can be shipped as "Not Restricted" in accordance with the current edition-65rd of IATA-DGR-2025.

14.6 With regard to air 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 US Hazardous Materials Regulation (HMR) pursuant to a final rule issued by RSPA
- The Office of Hazardous Materials Safety within the US Department of Transportations' (DOT)

Research and Special Programs Administration (RSPA).

SECTION 15 REGULATORY INFORMATION

The LITHIUM-ION CYLINDRICAL BATTERY (≥ 1940 mAh) according to Section II /IA/IB of PACKING INSTRUCTION 965/966/967 of the 2025 IATA Dangerous Goods regulations 66th Editon may be transported and applicable U.S.DOT regulations for the safe transport of Li-ion Battery.

Depending on their lithium metal equivalent weight content, design, and ability to pass safety tests defined by the UN in the "Recommendations on the Transport of Dangerous Good - Manual of Tests and Criteria – 4th Revised edition - Ref. ST/SG/AC.10/11 Rev.4 Amendment 1 «Lithium Batteries»", the Lithium-ion cells and the battery packs are not be assigned to the UN 3480 or UN 3481 Class-9 , that is restricted for transport.

Individual Lithium-ion cells and battery packs with respectively less than 20 and 100 Wh per gram that pass the UN-defined safety tests, are not restricted for transport .

SECTION 16 OTHER INFORMATION/DISCLAIMER

This information has been compiled from sources considered to be dependable and is, to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty (either expressed or implied) or guarantee is made to the accuracy, reliability or completeness of the information contained herein.

This information relates to the specific materials designated and may not be valid for such material used in combination with any other materials or in any process. It is the user's responsibility to satisfy himself as to the suitability and completeness of this information for his particular use.

PYTES does not accept liability for any loss or damage that may occur, whether direct, indirect, incidental or consequential, from the use of this information. PYTES does not offer warranty against patent infringement.

Additional information is available by calling the telephone number above designated purpose.



Chemical Safety Specification

Version 1.0

1. Chemical and company identification

Common name or trade name of chemicals: PBT/PC BC20TQFR VT HJUSIMC

Product code : --

Company : Wuhan Heju New Chemical Materials Co., LTD

China, Wuhan

Room 602, Wenfeng Building, Optics Valley Central

Information District I, NO.111 Guanggu Avenue, East Lake

High Development Zone

Zip Code: 430223

Phone : +86 27 5935 5345

Fax : +86 27 5935 5342

Emergency telephone : +86 27 5935 5348

2. Composition / composition information

Chemical property : Mixture

Preparation based on : Polymer of dimethyl 1,4-phthalate and 1,4-butanediol (70%),
Polycarbonate (30%)

Main CAS No. : 120-61-6, 110-63-4, 25037-45-0

3. Hazards identification

Harmful components : None

Potential health effects

Inhalation : Skin contact, eye contact, ingestion

Eye contact : Contact with hot products can cause thermal burns. Product dust
can irritate eyes, skin and nervous system.

Skin contact : This product is not a skin irritant. Contact with hot products
can cause thermal burns.

Chemical Safety Specification

Version 1.0

Ingestion	: None
Inhalation	: None
Aggravated medical conditions	: Pre-existing diseases of the following organs (or systems) will aggravate the lungs after exposure to this material (for example: symptoms similar to asthma)
Symptom	: No report
Target organ	: No report

4. First aid measures

General advice	: Generally, no first aid is required. If symptoms worsen, seek medical attention immediately.
Inhalation	: Move to a place with fresh air. If symptoms persist, seek medical attention. In case of shortness of breath, take oxygen.
Skin contact	: Take off contaminated clothes and shoes immediately. Rinse immediately with plenty of water.
Eye contact	: Wash eyes with water for at least 15 minutes. If eye irritation develops or persists, give medical attention. Take off contact lenses.
Ingestion	: Don't induce vomiting without a doctor's advice. Never feed anything from the mouth to an unconscious person. If necessary, consult a doctor.

5. Fire protection measures

Extinguishing agent	: Spray, ABC powder
Unsuitable extinguishing agent	: None
Hazardous combustion products	: Carbon dioxide and carbon monoxide,

Chemical Safety Specification

Version 1.0

Hydrocarbons

Special hazards during fire fighting : Do not let the fire-extinguished liquid flow into the sewers and water pipes.

Special protective equipment for firefighters : In case of fire, use self-contained breathing apparatus. Use personal protective equipment.

Further information: Spray water mist to cool the container and surrounding environment.
Prevent firefighting water from polluting the surface and groundwater system.
Dispose of fire residues and contaminated fire fighting water in accordance with local regulations.

6. Leak emergency treatment

Personal precautions : People who are not wearing protective equipment should stay away from the splash area before cleaning up. Sweep clean to prevent slippage.

Environmental precautions : Take measures to prevent further leakage or overflow under safe conditions.

Cleaning method : Spray water to suppress dust.
Store in a suitable closed handling container.

Supplementary notes (information) : There is a high risk of slipping due to product leakage / overflow.

7. Handling and storage operations

Precautions for safe operation : Do not breathe vapour/dust.
For personal protection, see section 8.
Prevent exceeding the prescribed occupational exposure limits (see section 8). Smoking, eating and drinking are prohibited in the use area.
Make sure that all equipment is grounded before starting the transfer. There are no specific operational recommendations.

Precautions for fire and explosion protection : Take measures to prevent static electricity generation. Prevent the generation of dust.
Where dust is generated, provide suitable exhaust equipment.

Chemical Safety Specification

Version 1.0

Storage

- Basic storage conditions and requirements : Store in the original container.
Close the container tightly and place it in a dry, cool and well-ventilated place.
Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
- Incompatible materials : Strong oxidants
- Other physical and chemical properties : Stable under recommended storage conditions.

8. Exposure control/personal protection

Engineering control

Provide sufficient mechanical (full or partial exhaust) ventilation to keep the exposure level not excessive (avoid known, suspicious or obvious adverse effects).

Personal protection equipment

- Respiratory protection : Respirator with dust filter
Generally speaking, personal respiratory protective equipment is not required.
- Glasses protection : Safety glasses with side shields
- Body protection : Dress appropriately:
Safety shoes
Wear protective gloves, such as: polyvinyl chloride
- Hygiene measures : Prevent inhalation of dust. Ensure that there are eyewash and shower facilities near the workplace

9. Physical characteristics

Appearance and traits

- Shape : Grain
- Color : Purple
- Smell : Odorless

Safety data

- Flash point : >300°C
- Lower explosion limit : No data available
- Upper explosion limit : No data available
- Ignition temperature : No data available
-

Chemical Safety Specification

Version 1.0

pH value	: No data available
Freezing point	: No data available
Boiling point	: No data available
Saturated vapor pressure	: No data available
Density	: 1.23-1.27g/cm ³ (25°C)
Water soluble	: Insoluble
Log value of octanol/water partition coefficient	: No data available
Relative vapor density	: No data available

10. Stability and reactivity

Conditions to avoid	: No report
Incompatible materials	: Strong oxidizer
Hazardous decomposition products	: Carbon dioxide, carbon monoxide, hydrocarbon compounds
Dangerous reaction	: No data available

11. Toxicity data

Acute oral poisoning	: No data available
Acute respiratory poisoning	: No data available
Acute skin poisoning	: No data available

12. Ecological information

Ecotoxicity	
Toxicity to fish	: No data available
Toxicity to Daphnia and other aquatic invertebrates	: No data available
Toxicity to algae	: No data available
Biochemical oxygen demand (BOD)	: No data available
Chemical oxygen demand (COD)	: No data available

13. Disposal of waste

Contaminated packaging	: Pour out the leftovers
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14. Transport information

ADG_RAIL	: Not Dangerous Goods
ADG_ROAD	: Not Dangerous Goods
CNDG	: Not Dangerous Goods

Chemical Safety Specification

Version 1.0

CNDG_INWTR	: Not Dangerous Goods
CNDG_RAIL	: Not Dangerous Goods
CN_AIR_C	: Not Dangerous Goods
CN_AIR_P	: Not Dangerous Goods
JP_SHIP	: Not Dangerous Goods
IMDG	: Not Dangerous Goods

The description of dangerous goods (if mentioned above) may not reflect the package size, quantity, end use, or exceptions that may apply to specific regions. For the specific description of the goods, please refer to the transport documents of the goods.

15. Further information

We believe that the information collected in this manual is accurate, but we cannot guarantee that all the data comes from our company. We suggest that the recipient can confirm in advance whether the information is up to date, applicable and meets specific conditions before using it. This MSDS is compiled by the technical department of Wuhan polymer plastic New Material Co., Ltd.

Material Safety Data Sheet

1 item and manufacturer information

1.1 Item name : SUS 316 (0Cr17Ni12Mo2)

1.2 Manufacturer/supplier name

1.3 Address : -

1.4 Contact : -

2 component identification data

Name	Chemical formula	chemical composition (%)	Chemical Abstracts Duden King Number (CAS NO.)
iron	Fe	-	7439-89-6
carbon	C	≤ 0.03	7440-44-0
fierce	Mn	≤ 2.00	7439-96-5
molybdenum	Mo	2.0~3.0	7439-92-1
sulfur	S	≤ 0.030	7704-34-9
silicon	Si	≤ 1.00	7440-21-3
phosphorus	P	≤ 0.045	7723-14-0
nickel	Ni	12.0~15.0	7440-02-0
chromium	Cr	16.0~18.0	1770-47-3

3 Hazard identification data

The most important hazard should be noted.	Emergency summary: Not applicable
	Health hazard effects: none
	Acute: None
	-Inhalation
	-Ingestion
	-Eye and skin contact
Environmental impact: none	
Physical and chemical hazards: none	
Special hazards: none	

Main symptoms: none	
<p>In the general environment, there is no information about the hazard and harmfulness. However, because it is a heavy item, it is necessary to pay full attention to tipping, rolling, and collapse of the cargo. The cut section and cutting debris of steel can cause damage to the skin.</p> <p>Along with welding, fusing, etc., the fine dust caused by concrete, grinding, etc. can irritate the respirator, eyes and other mucous membranes, and arc light can also cause burns.</p>	
Classification of Hazardous Substances: None	None Graphic: None

4 First aid measures

<p>First aid measures for different exposure routes:</p> <ul style="list-style-type: none"> -Inhalation: None. -Skin contact: None. -Eye contact: None. -Intake: None. 	None
Most important symptoms and acute effects	None
to emergency personnel protection	None
Note to physicians	None

5 the fire extinguishing measures

Applicable fire extinguishing agent:	Not applicable
Special hazards that fire extinguishing agents may have encountered	Not applicable
Special fire extinguishing procedure	None.
Special protective equipment for fire personnel	None.

6 Leak handling method

Precautions for individuals	Not applicable.
Environmental Cautions	Not applicable.
Cleaning method	Not applicable.

7 Safe handling and storage methods

<p>Disposal: Recycled raw materials, products or waste materials should be properly handled by a qualified waste disposer.</p>
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Room temperature, indoor.

8 Exposure prevention measures

Personal protective equipment: none.

Respiratory protection: none.

-General use: none.

-Emergency: none.

-Eye protection: none.

-Skin and body protection: none.

-Other Notes: None.

Health measures: no smoking, eating and drinking in the workplace. Wash hands after work, before eating and smoking.

9 Physical and chemical data

material status: solid	PH: Not applicable		
Shape: Stripe	Color: True Color 1		
Molecular Weight: Not applicable	Odor: Odorless		
Boiling point: Not applicable	Melting point: 1083 °C		
Decomposition temperature :-	Flashpoint: Not applicable		
Spontaneous ignition temperature: Not applicable	Explosio	lower limit (LEL)	Upper limit (UEL)
	n limit %	Not applicable	Not applicable
Vapor specific gravity (air =1): no data available	Vapor pressure (21.1 °C) :0		
Density: 8.94 g/cm ³	water solubility: insoluble in water		

10 Stability and reactivity

Stability specification	Stability
	Instability
Hazardous decomposition: None	
Conditions to be avoided: None	
Substances to avoid: Sulfur and certain acids	

11 Toxicity data

Urgent toxicity: -
Local effect : -
Sensitivity: -
Slow and long-term toxicity: -
Special effects : -

12 Ecological data

Possible environmental impacts/environmental discharges: - Toxicity in water: none - Mobility, bioaccumulation: none
--

13 Waste gas treatment method: This item is not applicable

Waste gas disposal method: Not applicable - Unused or residual gas: Not applicable. - In case of emergency: Not applicable.

14 Shipping information

International shipping regulations: not regulated. INTERNATIONAL MARITIME 'DANGEROUS GOODS CODE LABEL: None. American DO 'T SHIPPING LABEL: no DO 'T SHIPPING NAME: None.
Code label: None
Domestic transportation regulations: None
Special transportation method and matters needing attention: None

15 Applicable regulations

Law on Labor Safety and Health and Law on Waste Disposal
--

16 other information

Standard : AIR PRODUCT MSDS, INTERNATIONAL MARITIME DANGEROUS GOODS CODE.		
Hazard classification	NFPA	HMIS
health	0	-

Find maybe	0	-
Reactivity	0	-
<p>NFPA (national fire protection association rating identifies hazards during fire emergency) grade : 0 minimum 1 slight , 2 medium, 3 higher, 4 serious.</p> <p>HMIS : Hazardous Materials Identification System rating applies to process as packaged.</p>		