





# MATERIAL SAFETY DATA SHEET

Product Name: Li-ion Battery 38120 3.2V 10AH

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Shanghai Research Institute of Chemical Industry Testing Centre Shanghai Classification and Testing Centre of Dangerous Chemicals for State Work Safety

# Zhejiang Xinghai Energy Technology Co., Ltd.

# MATERIAL SAFETY DATA SHEET Li-ion Battery 38120 3.2V 10AH

## SECTION1 PRODUCT AND COMPANY IDENTIFICATION

Product name:

Li-ion Battery 38120 3.2V 10AH

Company:

Zhejiang Xinghai Energy Technology Co., Ltd.

Address:

Taihu Avenue, Economic Development Zone, Changxing County, Zhejiang

Province, 313100, P.R.China

Email:

market@xhnykj.com

Fax:

86-572-6128570

Emergency Phone:

86-572-6128999; 86-13819215155

MSDS Number:

2610030020

MSDS Date:

2010-03-17

### SECTION2 INFORMATION ON INGREDIENTS

Product name:

Li-ion Battery 38120 3.2V 10AH

Ingredient	Concentration	CAS No.	EC No.
Phosphate	25. 7%	/	/
Steel Sheet	20%	,	/
Electrolyte	15. 9%	/	/
Graphite	13. 5%	7782-42-5	/
Copper Foil	10. 1%	/	231-955-3
Aluminium Foil	6. 2%	/	/
PP Separator Paper	2. 1%	/	/
Polyvinylidene Fluoride	1.5%	/	/
Sodium Carboxy Methyl Cellulose	0. 18%	/	/
PVC Shrink Film	0. 03%	/	/
PP Seal Ring	0. 05%	/	/
	2070	/	/

### SECTION3 HAZARDS IDENTIFICATION

#### Hazards Identification:

Class 9, miscellaneous.

#### Emergency Overview:

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

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NO.2610030020

### SECTION4 FIRST-AID MEASURES

#### Skin Exposure:

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

#### Eye Exposure:

In case of 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, do not induce vomiting. Seek immediate medical attention.

### SECTION5 FIRE FIGHTING MEASURES

#### Extinguishing Media:

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

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.

#### SECTION6 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.

### SECTION7 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.

#### Storage:

Store in a cool, well-ventilated area. 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. Materials to Avoid: Strong oxidizing agents, Corrosives.



#### SECTION8 EXPLOSURE CONTROL/PPE

#### Engineering Controls:

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.

#### Other Protect:

No smoking, drinking and eating at working site. Wash thoroughly after handling.

#### SECTION9 PHYSICAL/CHEMICAL PROPERTIES

Appearance:

Blue cylinder plastics film shell

Odor:

Odorless

Melting Point/℃: >300℃

pH Value:

8-9

Solubility:

Partial soluble in water

#### SECTION10 STABILITY AND REACTIVITY

#### Stability:

Stable under normal temperatures and pressures.

#### Conditions 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.

#### SECTION11 TOXICOLOGICAL INFORMATION

#### Toxicity Data:

Not available.

#### Irritation Data:

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

#### SECTION12 ECOLOGICAL INFORMATION

No data available.

#### SECTION13 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.

#### SECTION14 TRANSPORT INFORMATION

The battery has passed the test items of UN Model Regulations, Manual of Test and Criteria (4th) Section UN 38.3. The watt-hour rating of the battery is more than 20Wh (for cells).

IATA Proper Shipping Name: Lithium ion batteries; UN Number: 3480; Hazard Class: 9; Packing Group: II; IMO Proper Shipping Name: Lithium ion batteries; UN Number: 3480; Hazard Class: 9; Packing Group: II.

### SECTION15 REGULATORY INFORMATION

#### US DOT:

Effective December 29, 2004, the DOT requires that the outside of each package that contains primary lithium batteries, regardless of size or number of batteries, be labeled with the following statement: "PRIMARY LITHIUM BATTERIES-FOBIDDEN FOR TRANSPORT ABOARD PASSENGER AIRCRAFT". The labeling requirement covers shipments via highway, rail, vessel or cargo-only aircraft and covers all shipment inside, into or out of the US. The label must be in contrasting color and the letters must be 12mm (0.5 in) in height for packages weighing more than 30 Kg and 6 mm (0.25 in) in height for packages weighting less than 30Kg.

#### **SECTION16 OTHER INFORMATION**

Date:

2010-03-17

Department:

Shanghai Research Institute of Chemical Industry Testing Centre

Shanghai Classification and Testing Centre of Dangerous Chemicals for State Administration

of Work Safety

Tel(Fax):8621-52815377/52800971/52807275/52811034/52569800

Revision:

Other

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