

# SAFETY DATA SHEET

Revision Number 1

Issuing Date No data available

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

**Product Name** Lithium Battery  
**Model Name** CR2032、CR2025、CR2450、CR2430、CR2330、CR2320、CR2016、CR1620、CR1616、CR1225、CR1220、CR1216、CR927

### Other means of identification

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended Use** Lithium Primary/Metal Batteries

**Uses advised against** No information available

### Details of the supplier of the safety data sheet

**Supplier Name** Dongguan Tuobu Electronic Co.,Ltd.  
**Supplier Address** No.A,Building 6,Binhe Road,Tianxin Quarter,Huangjiang Town,Dongguan, Guangdong Province .China

**Supplier Phone Number** Phone: +860769-82123428  
 Contact Phone +860769-82123428

**Supplier Email** highestsz@126.com

**Emergency telephone number**

## 2. HAZARDS IDENTIFICATION

### Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). This product is an article which is a sealed battery and as such does not require an MSDS per the OSHA hazard communication standard unless ruptured. The hazards indicated are for a ruptured battery.

Carcinogenicity	Category 1A
Serious eye damage/eye irritation	Category 2
Skin corrosion/irritation	Category 2
Skin sensitization	Category 1
Specific target organ toxicity (repeated exposure)	Category 1
Acute toxicity(Oral)	Category 4
Acute Inhalation(Gases)	Category 4
Acute Inhalation(Dusts/Mists)	Category 4
Reproductive Toxicity	Category 1B

### GHS Label elements, including precautionary statements

#### Emergency Overview

**Signal word**

**Danger**

#### **Hazard Statements**

Cause skin irritation  
 Harmful in contact with skin  
 Harmful if swallowed  
 Harmful inhaled  
 Causes serious eye irritation  
 May cause an allergic skin reaction  
 May cause cancer  
 May damage fertility or the unborn child

**Cause damage to organs through prolonged or repeated exposure**

This product is an article which contains a chemical substance. Safety information is given for exposure to the article as sold. Intended use of the product should not result in exposure to the chemical substance.

This is a battery. In case of rupture: the above hazards exist.

**Appearance** Silver

**Physical State** Solid

**Odor** Odorless

**Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Use only outdoors or in a well-ventilated area

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves

Do not breathe dust/fume/gas/mist/vapors/spray

Wear eye/face protection

**Precautionary Statements - Response**

IF EXPOSED OR CONCERNED: Get medical advice/attention

Specific treatment (see supplemental first aid instructions on this label)

**Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing

If eye irritation persists: Get medical advice/attention

**Skin**

IF ON SKIN: Wash with plenty of soap and water

Take off contaminated clothing and wash before reuse

If skin irritation or rash occurs: Get medical advice/attention

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Not applicable

**Unknown Toxicity****Other information**

Very toxic to aquatic life with long lasting effects

Repeated or prolonged skin contact may cause allergic reactions with susceptible persons

**Interactions with Other Chemicals**

No information available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	weight %
Lithium	7439-93-2	8
Propylene Carbonate	108-32-7	9
Manganese Dioxide	1313-13-9	22
Dimethoxymethane	110-71-4	6
Lithium Perchlorate	7791-03-9	3
Nickel	7440-02-0	4.8
Carbon	7440-44-0	0.04
Sulfur	7704-34-9	0.01
Phosphorus	7723-14-0	0.01
Iron	7439-89-6	36.5
Chromium	7440-47-3	4.4
Graphite	7782-42-5	4
Manganese	7439-96-5	0.96
Silicon	7440-21-3	0.48
Silica, amorphous, precipitated and gel	112926-00-8	0.3
Polypropylene	9003-07-0	0.5

### 4. FIRST AID MEASURES

#### First aid measures

#### General Advice

First aid is upon rupture of sealed battery. Show this safety data sheet to the doctor in attendance.

#### Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. Do not rub affected area.

#### Skin Contact

Wash off immediately with soap and plenty of water for at least 15 minutes. In the case of skin irritation or allergic reactions see a physician. May cause an allergic skin reaction.

#### Inhalation

Remove to fresh air. If symptoms persist, call a physician. Get medical attention immediately if symptoms occur.

#### Ingestion

Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician.

#### Self-protection of the first aider

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wear personal protective clothing (see section 8).

#### Most important symptoms and effects, both acute and delayed

#### Most Important Symptoms and Effects

Burning sensation. Coughing and/ or wheezing. Difficulty in breathing. Itching. Rashes. Hives.

#### Indication of any immediate medical attention and special treatment needed

**Notes to Physician** May cause sensitization of susceptible persons. Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### **Unsuitable Extinguishing Media**

CAUTION: Use of water spray when fighting fire may be inefficient

### **Specific Hazards Arising from the Chemical**

Product is or contains a sensitizer. May cause sensitization by skin contact.

### **Hazardous Combustion Products**

Carbon Oxides

### **Explosion Data**

**Sensitivity to Mechanical Impact** No.

**Sensitivity to Static Discharge** No.

### **Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand,MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### **Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas.

**Other Information** Refer to protective measures listed in Sections 7 and 8.

### **Environmental Precautions**

**Environmental Precautions** Refer to protective measures listed in Sections 7 and 8.

### **Methods and material for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

### **Precautions for safe handling**

**Handling** In case of rupture. Use personal protection equipment. Avoid contact with skin, eyes or clothing.

### **Conditions for safe storage, including any incompatibilities**

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible Products** Strong acids. Strong oxidizing agents. Strong bases.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Manganese dioxide 1313-13-9	TWA: 0.02 mg/m3 Mn TWA: 0.1 mg/m3 Mn	(vacated) Ceiling: 5 mg/m3 Ceiling: 5 mg/m3 Mn	IDLH: 500 mg/m3 Mn TWA: 1 mg/m3Mn STEL: 3 mg/m3 Mn
Graphite 7782-42-5	TWA: 2 mg/m3 respirable fraction all forms except graphite fibers	TWA: 15 mg/m3 total dust synthetic TWA: 5 mg/m3 respirable fraction synthetic (vacated) TWA: 2.5 mg/m3 respirable dust natural (vacated) TWA: 10 mg/m3 total dust synthetic (vacated) TWA: 5 mg/m3 respirable fraction synthetic TWA: 15 mppcf natural	IDLH: 1250 mg/m3 TWA: 2.5 mg/m3 respirable dust
Chromium 7440-47-3	TWA: 0.5 mg/m3	TWA: 1 mg/m3 (vacated) TWA: 1 mg/m3	IDLH: 250 mg/m3 TWA: 0.5 mg/m3
Nickel 7440-02-0	TWA: 1.5 mg/m3	TWA: 1 mg/m3 (vacated) TWA: 1 mg/m3	IDLH: 10 mg/m3 TWA: 0.015 mg/m3
Manganese 7439-96-5	TWA: 0.02 mg/m3 respirable fraction TWA: 0.1 mg/m3 inhalable fraction TWA: 0.02 mg/m3 Mn TWA: 0.1 mg/m3 Mn	(vacated) TWA: 1 mg/m3 fume (vacated) STEL: 3 mg/m3 fume (vacated) Ceiling: 5 mg/m3 Ceiling: 5 mg/m3 fume Ceiling: 5 mg/m3 Mn	IDLH: 500 mg/m3 TWA: 1 mg/m3 fume STEL: 3 mg/m3

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value

OSHA PEL: Occupational Safety and Health

Administration - Permissible Exposure Limits NIOSH IDLH Immediately Dangerous to Life or Health

#### **Other Exposure Guidelines**

Vacated limits revoked by the Court of Appeals decision in  
AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992) See section 15 for  
national exposure control parameters

#### Appropriate engineering controls

#### **Engineering Measures**

Showers  
Eyewash stations  
Ventilation systems

#### **Individual protection measures, such as personal protective equipment**

#### **Eye/Face Protection**

If splashes are likely to occur: Wear safety glasses with side  
shields (or goggles). None required for consumer use.

#### **Skin and Body Protection**

Wear protective gloves and protective clothing. Long sleeved  
clothing. Impervious gloves

#### **Respiratory Protection**

No protective equipment is needed under normal use conditions. If  
exposure limits are exceeded or irritation is experienced, ventilation  
and evacuation may be required.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety  
practice. Do not eat, drink or smoke when using this product. Take off  
contaminated clothing and wash before reuse.  
Avoid contact with skin, eyes or clothing. Wear suitable gloves and  
eye/face protection.  
Wash hands before breaks and immediately after handling the  
product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and Chemical Properties

**Physical State** Solid  
**Appearance** Silver  
**Color** No information available  
**Odor** Odorless  
**Odor Threshold** No information available

<u>Property</u>	<u>Values</u>	<u>Remarks/</u>
pH	No data available	None known
Melting / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash Point	No data available	None known
Evaporation Rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		
Upper flammability limit	No data available	
Lower flammability limit	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Specific Gravity	No data available	None known
Water Solubility	No data available	None known
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/water	0.0001	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	0.0001	None known
Explosive properties	No data available	None known
Oxidizing Properties	No data available	None known

### Other Information

**Softening Point** No data available  
**VOC Content (%)** No data available  
**Particle Size** No data available  
**Particle Size Distribution**

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available

### Chemical stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Hazardous Polymerization

Hazardous polymerization does not occur.

### Conditions to avoid

None known based on information supplied.

### Incompatible materials

Strong acids. Strong oxidizing agents. Strong bases.

### Hazardous Decomposition Products

Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

<b>Product Information</b>	Product does not present an acute toxicity hazard based on known or supplied information In case of rupture.
<b>Inhalation</b>	Specific test data for the substance or mixture is not available. Corrosive by inhalation.(based on components).
<b>Eye Contact</b>	Specific test data for the substance or mixture is not available. Expected to be and irritant based on components. Irritating to eyes. May cause redness, itching, and pain. May cause temporary eye irritation.
<b>Skin Contact</b>	Specific test data for the substance or mixture is not available. Expected to be an irritant based on components. Irritating to skin. Prolonged contact may cause redness and irritation.
<b>Ingestion</b>	Specific test data for the substance or mixture is not available. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be harmful if swallowed. (based on components).

### **Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Iron 7439-89-6	= 984 mg/kg ( Rat )	–	–
Manganese dioxide 1313-13-9	= 9000 mg/kg ( Rat )	–	–
Propylene carbonate 108-32-7	= 29000 mg/kg ( Rat )	> 20 mL/kg ( Rabbit )	–
Graphite 7782-42-5	> 10000 mg/kg ( Rat )	–	–
Nickel 7440-02-0	> 9000 mg/kg ( Rat )	–	–

### Information on toxicological effects

<b>Symptoms</b>	Erythema (skin redness). May cause redness and tearing of the eyes. Coughing and/ or wheezing.Itching. Rashes Hives.
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### Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Sensitization</b>	May cause sensitization of susceptible persons. May cause sensitization by skin contact. May cause sensitization by inhalation.
<b>Mutagenic Effects</b>	No information available
<b>Carcinogenicity</b>	The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Chromium 7440-47-3		Group 3		
Nickel 7440-02-0		Group 2B Group 1	Reasonably Anticipated	X

### **ACGIH (American Conference of Governmental Industrial Hygienists)**

A1 - Known Human Carcinogen

A3 - Animal Carcinogen

### **IARC (International Agency for Research on Cancer)**

Group 1 - Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

### **NTP (National Toxicology Program)**

Known - Known Carcinogen

### **OSHA (Occupational Safety and Health Administration of the US Department of Labor)**

X- Present

<b>Reproductive Toxicity</b>	Contains a known or suspected reproductive toxin.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	Causes damage to organs through prolonged or repeated exposure. Based on classification criteria from the 2012 OSHA Hazard Communication Standard (29 CFR1910.1200),

this product has been determined to cause systemic target organ toxicity from chronic or repeated exposure. (STOT RE).

**Chronic Toxicity**

No known effect based on information supplied. Contains a known or suspected carcinogen. Contains a known or suspected reproductive toxin. Possible risk of irreversible effects. Avoid repeated exposure. Prolonged exposure may cause chronic effects. May cause adverse effects on the bone marrow and blood-forming system. Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons.

**Target Organ Effects**

Respiratory system. Eyes. Skin. Gastrointestinal tract (GI). Reproductive System. Blood. Central Nervous System (CNS). Central Vascular System (CVS). Kidney. Lungs. Nasal cavities. Cardiovascular system. Systemic Toxicity. Liver.

**Aspiration Hazard**

No information available.

**Numerical measures of toxicity Product Information**

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)

ATEmix (dermal)

ATEmix (inhalation-dust/mist)

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Very toxic to aquatic life with long lasting effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Iron 7439-89-6		96h LC50: = 13.6 mg/L (Morone saxatilis)		
Propylene carbonate 108-32-7	72h EC50: > 500 mg/L (Desmodesmus subspicatus)	96h LC50: = 1000 mg/L (Cyprinus carpio) 96h LC50: = 5300 mg/L (Leuciscus idus)	EC50 > 10000 mg/L 17 h	48h EC50: > 500 mg/L
Nickel 7440-02-0	72h EC50: = 0.18 mg/L (Pseudokirchneriella subcapitata) 96h EC50: 0.174 - 0.311 mg/L (Pseudokirchneriella subcapitata)	96h LC50: > 100 mg/L (Brachydanio rerio) 96h LC50: = 1.3 mg/L (Cyprinus carpio) 96h LC50: = 10.4 mg/L (Cyprinus carpio)		48h EC50: > 100 mg/L 48h EC50: = 1 mg/L

**Persistence and Degradability**

No information available.

**Bioaccumulation**

Chemical Name	Log Pow
Manganese dioxide 1313-13-9	<0
Propylene carbonate 108-32-7	0.48

**Other adverse effects**

No information available.

## 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods****Disposal methods**

Should not be released into the environment. This material, as supplied, is a hazardous waste according to Federal regulations (40 CFR 261). Consult the appropriate state, regional, or local regulations for additional requirements.



**Contaminated Packaging  
US EPA Waste Number**

Dispose of in accordance with federal, state and local regulations.  
D007

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Chromium 7440-47-3		Included in waste streams: F032, F034, F035, F037, F038, F039	5.0 mg/L regulatory level	
Nickel 7440-02-0	(hazardous constituent - no waste number)	Included in waste streams: F006, F039		

**California Hazardous Waste Codes 181**

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
Chromium 7440-47-3	Toxic Corrosive Ignitable
Nickel 7440-02-0	Toxic powder Ignitable powder
Lithium 7439-93-2	Corrosive Ignitable Reactive
Manganese 7439-96-5	Ignitable powder

**14. TRANSPORT INFORMATION**

**Note:** The transportation of primary lithium cells and batteries is regulated by the International Civil Aviation Organization, International Air Transport **Association**, International Maritime Dangerous Goods Code and the US Department of Transportation. The batteries must meet the following criteria for shipment: 1. Air shipments must meet the requirements listed in Special Provision A45 of the International Air Transport Association Dangerous Goods Regulations. 2. Meet the requirements for the US Department of Transportation listed in 49 CFR 173.185. 3. The transport of primary lithium batteries is prohibited aboard passenger aircraft. Refer to the Federal Register December 15, 2004 (Hazardous Materials; Prohibited on the Transportation of Primary Lithium Batteries and Cells Aboard Passenger Aircraft; Final Rule)  
Lithium batteries shipped as "Lithium batteries", "Lithium batteries packed with equipment", or "Lithium batteries contained in equipment" may not be classified as "Dangerous Goods" when shipped in accordance with "special provision A45 of IATA-DGR" or "special provision 188 of IMO-IMDG Code"

**DOT** NOT REGULATED

**Proper Shipping Name** NON REGULATED  
**Hazard Class** N/A

**TDG** Not regulated  
**MEX** Not regulated  
**CAO** Not regulated  
**IATA** Not regulated

**Proper Shipping Name** Not regulated  
**Hazard Class** N/A

**IMDG/IMO** Not regulated  
**Proper Shipping Name** NON-REGULATED PER SP 188  
**Hazard Class** N/A

**EmS No.** F-A, S-I  
**RID** Not regulated  
**ADR** Not regulated  
**AND** Not regulated

## 15. REGULATORY INFORMATION

### International Inventories

TSCA Complies  
 DSL All components are listed either on the DSL or NDSL.  
 TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

### US Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Manganese dioxide	1313-13-9	22	1.0
Chromium	7440-47-3	4.4	1.0
Ethylene glycol dimethyl ether	110-71-4	6	1.0
Nickel	7440-02-0	4.8	0.1
Manganese	7439-96-5	0.96	1.0

#### SARA 311/312 Hazard Categories

Acute Health Hazard No  
 Chronic Health Hazard No  
 Fire Hazard No  
 Sudden release of pressure hazard No  
 Reactive Hazard No

#### CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Chromium 7440-47-3		X	X	
Nickel 7440-02-0		X	X	

#### CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Chromium 7440-47-3	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
Nickel 7440-02-0	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ

#### US State Regulations

##### California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Nickel - 7440-02-0	Carcinogen

##### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Manganese dioxide 1313-13-9			X	X	X
Chromium 7440-47-3	X	X	X	X	X
Graphite 7782-42-5	X	X	X		
Ethylene glycol dimethyl ether 110-71-4	X	X	X	X	X

Lithium 7439-93-2	x	x	x		
Nickel 7440-02-0	x	x	x	x	x
Manganese 7439-96-5	x	x	x	x	x
Silicon 7440-21-3	x	x	x		

**International Regulations****Mexico****National occupational exposure limits**

Component	Carcinogen Status	Exposure Limits
Manganese dioxide 1313-13-9 (22%)		Mexico: TWA= 0.2 mg/m <sup>3</sup>
Chromium 7440-47-3 (4.4%)		Mexico: TWA 0.5 mg/m <sup>3</sup>
Graphite 7782-42-5 (24%)		Mexico: TWA= 2 mg/m <sup>3</sup>
Nickel 7440-02-0 (4.8%)		Mexico: TWA 1 mg/m <sup>3</sup>
Manganese 7439-96-5 (0.96%)		Mexico: TWA 0.2 mg/m <sup>3</sup> Mexico: TWA 1 mg/m <sup>3</sup> Mexico: STEL 3 mg/m <sup>3</sup>

tMexico-Occupational Exposure Limits - Carcinogens

**Canada****WHMIS Hazard Class**

Non-controlled

## 16. OTHER INFORMATION

**NFPA**      **Health Hazards**      1      **Flammability**      0      **Instability**      0      **Physical and Chemical Hazards - Personal Protection**  
X

**MIS**      **Health Hazards**      1\*      **Flammability**      0      **Physical Hazard**      0  
**Chronic Hazard Star Legend**      \* = Chronic Health Hazard

**Prepared By**                      Dongguan Tuobu Electronic Co.,Ltd  
**Revision Date**                      15-Jan-2015  
**Revision Note**

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet