## SAFETY DATA SHEET

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

Product identifier			
Product Name	Lithium ion Cell		
Other means of identification			
Synonyms	None		
Recommended use of the chemica	al and restrictions on use		
Recommended Use	LITHIUM ION BATTERIES		
Uses advised against	No information available		
Details of the supplier of the safet	y data sheet		
Supplier Name Supplier Address	Shenzhen Zhuoneng New Energy Technology Co.,Ltd. Fuping road with rich industrial park A2, A3, A4, Pingshan Street No. 6, Longgang District ,Shenzhen,Guangdong, 518117 China		
Supplier Phone Number	Phone:+860755-84072583 Fax: +860755-84072583 Contact Phone: +860755-84072583		
Supplier Email Emergency telephone number	fangjian@szznp.com		

## 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.

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1
Carcinogenicity	Category 1A
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 Stater	nents	-		
Cause skin irri	tation			
Harmful in con	itact with s	kin		
Harmful if swa	llowed			
Harmful inhale	;d			
Causes seriou	is eye irrita	Ition		
May cause an	allergic sk	in reaction		
May cause car				
		ne unborn child		
Cause damage	e to organ	s through prolonged or repeated exposure		
^				
	K			
<b>\•</b> /				
This product is	an article	which contains a chemical substance. Safety information is given for	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.	Substance.	
Appearance	Green	Physical State Solid Odor	Odorless	
		ts - Prevention		
Obtain special i				
		ety precautions have been read and understood		
• •		quipment 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				
		ng should not be allowed out of the workplace		
Wear protective				
Do not breathe dust/fume/gas/mist/vapors/spray				

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 %	
Cobalt lithium manganese nickel oxide	182442-95-1	36.6	
Graphite	7782-42-5	18.35	
Styrene-Butadiene polymer	9003-55-8	0.5	
Carbon black	1333-86-4	0.73	
1,1-Difluoroethylene polymer	24937-79-9	3	
Phosphate(1-), hexafluoro-, lithium	21324-40-3	1.7	
Ethylene carbonate	96-49-1	5.7	
Methyl ethyl carbonate	623-53-0	2.2	
Dimethyl Carbonate	616-38-6	3.5	
Copper	7440-50-8	7	
Aluminum	7429-90-5	3.37	
Iron	7439-89-6	17.2	
Nickel	7440-02-0	0.15	

	4. FIRST AID MEASURES
<u>First aid measures</u> 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	l 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 m Notes to Physician	edical attention and special treatment needed 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 for cleaning up	Pick up and transfer to properly labeled containers	
Methods for Containment Methods for cleaning up	Prevent further leakage or spillage if safe to do so. 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

#### <u>Control parameters</u> Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Cobalt lithium manganese nickel oxide 182442-95-1	TWA: 0.02 mg/m <sup>3</sup>		
Graphite 7782-42-5	TWA: 2 mg/m <sup>3</sup> respirable fraction all forms except graphite fibers	TWA: 15 mg/m <sup>3</sup> total dust synthetic TWA: 5 mg/m <sup>3</sup> respirable fraction synthetic (vacated) TWA: 2.5 mg/m <sup>3</sup> respirable dust natural (vacated) TWA: 10 mg/m <sup>3</sup> total dust synthetic (vacated) TWA: 5 mg/m <sup>3</sup> respirable fraction synthetic TWA: 15 mppcf natural	IDLH: 1250 mg/m <sup>3</sup> TWA: 2.5 mg/m <sup>3</sup> respirable dust
Copper 7440-50-8	TWA: 0.2 mg/m <sup>3</sup> fume TWA: 1 mg/ mg/m <sup>3</sup> Cu dust and mist	TWA: 0.1 mg/m <sup>3</sup> fume TWA: 1 mg/m <sup>3</sup> dust and mist (vacated) TWA: 0.1 mg/m <sup>3</sup> Cu dust, fume, mist	IDLH: 100 mg/m <sup>3</sup> dust, fume and mist TWA: 1 mg/m <sup>3</sup> dust and mist TWA: 0.1 mg/m <sup>3</sup> fume
Aluminum 7429-90-5	TWA: 1 mg/m <sup>3</sup> respirable fraction	TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) TWA: 15 mg/m <sup>3</sup> total dust (vacated) TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) TWA: 5 mg/m <sup>3</sup> Al Aluminum	TWA: 10 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable dust
Phosphate(1-), hexafluoro-, lithium 21324-40-3	TWA: 2.5 mg/m <sup>3</sup> F	TWA: 2.5 mg/m <sup>3</sup> F TWA: 2.5 mg/m <sup>3</sup> dust (vacated) TWA: 2.5 mg/m <sup>3</sup>	
Carbon black 1333-86-4	TWA: 3 mg/m <sup>3</sup> inhalable fraction	TWA: 3.5 mg/m <sup>3</sup> (vacated) TWA: 3.5 mg/m <sup>3</sup>	IDLH: 1750 mg/m <sup>3</sup> TWA: 3.5 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup> Carbon black in presence of Polycyclic aromatic hydrocarbons PAH
Nickel 7440-02-0	TWA: 1.5 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup> (vacated) TWA: 1 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup> TWA: 0.015 mg/m <sup>3</sup>

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 control 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	Green	Odor	Odorless	
Color	No information available	Odor Threshold	No information available	
Dronortu		Values	Demerske / Method	
Property		<u>Values</u>	Remarks/ Method	
рН		No data available	None known	
Melting / free		No data available	None known	
	/ 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 flam	mability limit	No data available		
Lower flam	mability limit	No data available		
Vapor pressu	ıre	No data available	None known	
Vapor densit	У	No data available	None known	
Specific Grav	/ity	No data available	None known	
Water Solubi	lity	No data available	None known	
Solubility in	other solvents	No data available	None known	
Partition coe	fficient: n-octanol/water	0.001	None known	
Autoignition	temperature	No data available	None known	
Decompositi	on temperature	No data available	None known	
Kinematic vi	scosity	No data available	None known	
Dynamic vise	cosity	0.001	None known	
Explosive pr	operties	No data available		
Oxidizing Pro	operties	No data available		

## **Other Information**

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

## **10. STABILITY AND REACTIVITY**

#### Reactivity No data available

<u>Chemical stability</u> 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

## **11. TOXICOLOGICAL INFORMATION**

## Information on likely routes of exposure

Product Information	Product does not present an acute toxicity hazard based on known or supplied information In case of rupture
Inhalation	Specific test data for the substance or mixture is not available. Corrosive by inhalation.(based on components).
Eye Contact	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.
Skin Contact	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.
Ingestion	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	= 984 mg/kg ( Rat )	-	-	
7439-89-6				
Nickel	> 9000 mg/kg ( Rat )	-	-	
7440-02-0				
Graphite	> 10000 mg/kg ( Rat )	-	-	
7782-42-5				
Carbon black	> 15400 mg/kg ( Rat )	> 3 g/kg (Rabbit)	-	
1333-86-4				

## Information on toxicological effects

Symptoms

Erythema (skin redness). May cause redness and tearing of the eyes. Coughing and/ or wheezing.ltching. Rashes Hives.

Delayed and immediate effects as well as chronic effects from short and long-term exposure		
Sensitization	May cause sensitization of susceptible persons. May cause sensitization by skin contact. May cause sensitization by inhalation.	
Mutagenic Effects	No information available	
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen	

Chemical Name	ACGIH	IARC	NTP	OSHA
Cobalt lithium manganese nickel	A3	Group 2B		Х

oxide 182442-95-1				
Carbon black 1333-86-4	A3	Group 2B		х
Nickel		Group 2B	Reasonably	Х
7440-02-0			Anticipated	

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)

OSHA (Occupational Safety and Health Administration of the US Department of Labor) X- Present

Reproductive Toxicity	Contains a known or suspected reproductive toxin
STOT - single exposure	No information available.
STOT - repeated exposure	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. May cause adverse liver effects.
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.

<u>Numerical measures of toxicity Product Information</u> 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**

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)		
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
Copper 7440-50-8	96h EC50: 0.031 - 0.054 mg/L (Pseudokirchneriella	96h LC50: 0.0068 - 0.0156 mg/L (Pimephales promelas) 96h LC50: = 0.112 mg/L		48h EC50: = 0.03 mg/L

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	subcapitata) 72h EC50: 0.0426 - 0.0535 mg/L (Pseudokirchneriella subcapitata)	(Poecilia reticulata) 96h LC50: = 0.3 mg/L (Cyprinus carpio) 96h LC50: = 0.8 mg/L (Cyprinus carpio) 96h LC50: = 1.25 mg/L (Lepomis macrochirus) 96h LC50: = 0.052 mg/L (Oncorhynchus mykiss) 96h LC50: = 0.2 mg/L (Pimephales promelas) 96h LC50: < 0.3 mg/L (Pimephales promelas)	
Carbon black 1333-86-4			24h EC50: > 5600 mg/L

#### Persistence and Degradability

No information available.

#### **Bioaccumulation**

No information available

#### Other adverse effects

No information available.

## **13. DISPOSAL CONSIDERATIONS**

#### Waste treatment methods Disposal methods Contaminated Packaging

Should not be released into the environment. Dispose of in accordance with federal, state and local regulations.

**US EPA Waste Number** 

Dispose of contents/containers in accordance with local regulations.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Nickel 7440-02-0	(hazardous constituent - no	Included in waste streams:		
	waste number)	F006, F039		

### California Hazardous Waste Codes 141

Chemical Name	California Hazardous Waste
Cobalt lithium manganese nickel oxide 182442-95-1	Toxic
Aluminum 7429-90-5	Ignitable powder
Copper 7440-50-8	Toxic
Nickel 7440-02-0	Toxic powder 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

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as"Dangerous Goods" when shipped in accordance with "special provision A45 of IATA-DGR" or "special provision 188 of IMO-IMDG Code"

or NDSL.

## **15. REGULATORY INFORMATION**

## **International Inventories**

TSCA	Complies
DSL	All components are listed either on the DSL
TSCA - United S	tates 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 %
Cobalt lithium manganese nickel oxide	182442-95-1	36.6	1.0 0.1
Aluminum	7429-90-5	3.37	1.0
Copper	7440-50-8	7	1.0
Nickel	7440-02-0	0.15	0.1

## 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
Copper 7440-50-8		Х	Х	
Nickel 7440-02-0		Х	Х	

## 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 Extremely Hazardous RQ Substances RQs
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Copper 7440-50-8	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
Aluminum 7429-90-5		

## **US State Regulations**

## **California Proposition 65**

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Carbon black - 1333-86-4	Carcinogen
Cobalt lithium manganese nickel oxide - 182442-95-1	Carcinogen
Nickel - 7440-02-0	Carcinogen

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Lithium nickel cobalt manganese oxide 182442-95-1	X		X	Х	Х
Graphite 7782-42-5	Х	X	Х		
Copper 7440-50-8	Х	X	Х	Х	Х
Aluminum 7429-90-5		Х		Х	
Nickel 7440-02-0	Х	X	Х	Х	Х
Carbon black 1333-86-4	Х	Х	X		Х
Ethylene carbonate 96-49-1		Х	Х		
Dimethyl carbonate 616-38-6	Х	Х	X		

# International Regulations Mexico National occupational exposure limits Component Carcinogen Status

Component	Carcinogen Status	Exposure Limits
Graphite		Mexico: TWA= 2 mg/m <sup>3</sup>
7782-42-5(18.35%)		
Copper		Mexico: TWA= 1 mg/m <sup>3</sup>
7440-50-8(7%)		Mexico: TWA= 0.2 mg/m <sup>3</sup>
		Mexico: STEL= 2 mg/m <sup>3</sup>
Aluminum		Mexico: TWA= 10 mg/m <sup>3</sup>
7429-90-5(3.37%)		
Carbon black		Mexico: TWA 3.5 mg/m <sup>3</sup>
1333-86-4(0.73%)		Mexico: STEL 7 mg/m <sup>3</sup>

Exposure Limite

Mexico - 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 -		
HMIS	Health Hazards 3	* Flammability 0	Physical Hazard 0	Personal Protection		
Chronic Hazard Star Legend * = Chronic Health Hazard						
Prepared By Shenzhen Zhuoneng New Energy Technology Co.,Ltd.						
Issuing Revisio		07-Sep-2015				

## **Revision Note**

## No information available

## 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