

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/m ³ Mn TWA: 0.1 mg/m ³ Mn | (vacated) Ceiling: 5 mg/m ³ Ceiling: 5 mg/m ³ Mn | IDLH: 500 mg/m ³ Mn TWA: 1 mg/m ³ Mn STEL: 3 mg/m ³ Mn |
| Graphite 7782-42-5 | TWA: 2 mg/m ³ respirable fraction all forms except graphite fibers | TWA: 15 mg/m ³ total dust synthetic TWA: 5 mg/m ³ respirable fraction synthetic (vacated) TWA: 2.5 mg/m ³ respirable dust natural (vacated) TWA: 10 mg/m ³ total dust synthetic (vacated) TWA: 5 mg/m ³ respirable fraction synthetic TWA: 15 mppcf natural | IDLH: 1250 mg/m ³ TWA: 2.5 mg/m ³ respirable dust |
| Chromium 7440-47-3 | TWA: 0.5 mg/m ³ | TWA: 1 mg/m ³ (vacated) TWA: 1 mg/m ³ | IDLH: 250 mg/m ³ TWA: 0.5 mg/m ³ |
| Nickel 7440-02-0 | TWA: 1.5 mg/m ³ | TWA: 1 mg/m ³ (vacated) TWA: 1 mg/m ³ | IDLH: 10 mg/m ³ TWA: 0.015 mg/m ³ |
| Manganese 7439-96-5 | TWA: 0.02 mg/m ³ respirable fraction TWA: 0.1 mg/m ³ inhalable fraction TWA: 0.02 mg/m ³ Mn TWA: 0.1 mg/m ³ Mn | (vacated) TWA: 1 mg/m ³ fume (vacated) STEL: 3 mg/m ³ fume (vacated) Ceiling: 5 mg/m ³ Ceiling: 5 mg/m ³ fume Ceiling: 5 mg/m ³ Mn | IDLH: 500 mg/m ³ TWA: 1 mg/m ³ fume STEL: 3 mg/m ³ |

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

| | |
|----------------------------|---|
| 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 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

| | |
|-----------------|---|
| Symptoms | Erythema (skin redness). May cause redness and tearing of the eyes. Coughing and/ or wheezing. Itching. 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 |
|-----------------------|-------|---------------------|---------------------------|------|
| 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

| | |
|---------------------------------|--|
| 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.

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. No information available.

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

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 ³ |
| Chromium 7440-47-3 (4.4%) | | Mexico: TWA 0.5 mg/m ³ |
| Graphite 7782-42-5 (24%) | | Mexico: TWA= 2 mg/m ³ |
| Nickel 7440-02-0 (4.8%) | | Mexico: TWA 1 mg/m ³ |
| Manganese 7439-96-5 (0.96%) | | Mexico: TWA 0.2 mg/m ³ Mexico: TWA 1 mg/m ³ Mexico: STEL 3 mg/m ³ |

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