

# Product Information Sheet

## Panasonic Batteries

Panasonic Industrial Company  
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**Product:** Alkaline Batteries

**Applicable models/sizes:** All Cylindrical and 9-Volt

**Revision:** January 1, 2013

**The batteries referenced herein are exempt articles and are not subject to the OSHA Hazard Communication Standard requirement. This sheet is provided as a service to our customers.**

## MSDS

Material Safety Data Sheets (MSDS) are a sub-requirement of the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard, 29 CFR Subpart 1910.1200. This Hazard Communication Standard does not apply to various subcategories including anything defined by OSHA as an "article". OSHA has defined "article" as a manufactured item other than a fluid or particle; (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g. minute or trace amounts of a hazardous chemical, and does not pose a physical hazard or health risk to employees.

*Because all of our batteries are defined as "articles", they are exempt from the requirements of the Hazard Communication Standard; hence a MSDS is not required.*

## The following components are found in a Panasonic Alkaline battery:

Component	Material	Formula	CAS #
Positive Electrode	Manganese Dioxide	MnO <sub>2</sub>	1313-13-9
	Graphite	C	7782-42-5
Negative Electrode	Zinc	Zn	7440-66-6
Electrolyte	Potassium Hydroxide	KOH	1310-58-3

## Disposal

All Panasonic Alkaline batteries are manufactured with "no added mercury" and are classified by the federal government as a non-hazardous waste and are safe for disposal in the normal municipal waste stream. Exception: California, which as of February 8, 2006 requires disposal of these batteries in accordance with the California Universal Waste Rules. Check your local regulations for proper disposal.

## Transportation

Alkaline batteries (sometimes referred to as "Dry cell" batteries) are not listed as dangerous goods under the International Civil Aviation Organization (ICAO), 2013-2014 edition, International Air Transport Association (IATA), 54th edition and U.S. Department of Transportation (DOT) regulations, 49 CFR. These batteries are not subject to the dangerous goods regulations provided they meet the requirements contained in the following Special Provisions; Special Provision A123 in the ICAO Technical Instructions and IATA Dangerous Goods Regulations and Special Provision 130 of the DOT. These regulations require these batteries to be packed in such a way to prevent short circuits or generation of a dangerous quantity of heat. In addition, the ICAO and IATA regulations require the words "Not Restricted" and "Special Provision A123" be provided on the air waybill, when an air waybill

**Notice:** The information and recommendations set forth are made in good faith and are believed to be accurate at the date of preparation. Panasonic Industrial Company makes no warranty expressed or implied.

is issued. By ocean the International Maritime Organization (IMO), 2010 edition, 35<sup>th</sup> Amendment, does not regulate these batteries.

### **First Aid**

If you get electrolyte in your eyes, flush with water for 15 minutes without rubbing and immediately contact a physician. If you get electrolyte on your skin wash the area immediately with soap and water. If irritation continues, contact a physician. If a battery is ingested, call the National Capital Poison Center (NCPC) at 202-625-333 (Collect) or your local poison center immediately

### **General Recommendations**

CAUTION: May explode or leak if recharged, inserted improperly, mixed with different battery types or disposed of in fire. Do not open battery.

### **Fire Safety**

In case of fire, you can use any Class of fire extinguisher. Cooling the exterior of the batteries will help prevent rupturing. Fire fighters should use self-contained breathing apparatus.

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# SDS

## SAFETY DATA SHEET


According to 2012 OSHA Hazard Communication Standard  
(29 CFR 1910.1200)

**Prepared For** : SHUNWO NEWPOWER ELECTRONICS (SHENZHEN) CO., LTD.  
Aoer Road, No.30, Aobei Village, Longgang Area, Shenzhen, China

**Prepared By** : Shenzhen LCS Compliance Testing Laboratory Ltd.  
1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue, Bao'an  
District, Shenzhen, Guangdong, China

**Issue Date** : 2017.06.21  
**Report Number** : LCS170610001AS 001

**Written by:** Linda.

**Approved by:** 

# Safety Data Sheet

Version: V1.0

 According to 2012 OSHA Hazard Communication Standard  
 (29 CFR 1910.1200)

REPORT NO.: LCS170610001AS 001

\* The SDS is prepared based on the information provided by client. The contents and formats of this SDS are revised as per client's request.

## Section 1- Identification

### (a) Product identifier

Product name	Lithium Manganese Dioxide Cell
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### (b) Other means of identification

Product description	Model: CR2032 Nominal Voltage: 3.0V Nominal capacity: 220mAh Lithium Content: 0.066 g Weight: 3.0g
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### (c) Recommended use of the chemical and restrictions on use

Recommended use	Lithium Primary/Metal Batteries
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Uses advised against	No information available.
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### (d) Details of the supplier of the safety data sheet

Supplier Name	SHUNWO NEWPOWER ELECTRONICS (SHENZHEN) CO., LTD.
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Supplier Address	Aoer Road, No.30, Aobei Village, Longgang Area, Shenzhen, China
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Supplier Phone Number	+86-755-89619888
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### (e) Emergency telephone number

+86-755-89619888
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## Section 2- Hazards Identification

### (a) 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.

Acute toxicity - Oral	Category 4
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Acute toxicity - Inhalation (Gases)	Category 4
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Acute toxicity - Inhalation (Dusts/Mists)	Category 4
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Skin corrosion/irritation	Category 2
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Serious eye damage/eye irritation	Category 2
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Reproductive Toxicity	Category 1B
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Specific target organ toxicity (repeated exposure)	Category 2
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# Safety Data Sheet

Version: V1.0

According to 2012 OSHA Hazard Communication Standard  
(29 CFR 1910.1200)

REPORT NO.: LCS170610001AS 001

<b>(b) GHS Label elements, including precautionary statements</b>	
Emergency Overview	
Signal word	Danger
<b>Hazard Statements</b> Harmful if swallowed Causes skin irritation Causes serious eye damage May damage fertility or the unborn child Causes damage to organs through prolonged or repeated exposure 	
<b>Appearance:</b> Silver	<b>Physical State:</b> Solid <b>Odor:</b> No information available
<b>Precautionary Statements-Prevention</b>	Do not breathe dust/fume/gas/mist/vapors/spray Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Use only outdoors or in a well-ventilated area Do not eat, drink or smoke when using this product
<b>Precautionary Statements-Response</b>	Immediately call a POISON CENTER or doctor/physician Specific treatment (see supplemental first aid instructions on this label) Get medical advice/attention if you feel unwell
<b>Eyes</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician
<b>Skin</b>	IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse
<b>Precautionary Statements-Storage</b>	Store locked up Store in a well-ventilated place. Keep container tightly closed
<b>Precautionary Statements-Disposal</b>	Dispose of contents/container to an approved waste disposal plant
<b>(c) Hazards not otherwise classified (HNOC)</b>	
Not applicable	
<b>(d) Unknown Toxicity</b>	
7.5% of the mixture consists of ingredient(s) of unknown toxicity	
<b>(e) Other information</b>	
No information available	
<b>(f) Interactions with Other Chemicals</b>	
No information available.	

## Section 3- Composition/Information On Ingredients

Chemical Name	CAS Number	Weight (%)
Manganese Dioxide	1313-13-9	27.73
Graphite	7782-42-5	3.00
Polytetrafl Uorethene	9002-84-0	1.93
Lithium	7439-93-2	2.17
Steel	12597-68-1	53.83
Propylene Carbonate	108-32-7	3.31
Dimethoxyethane	110-71-4	3.31
Lithium Perchlorate	7791-03-9	0.73
Polypropylene	9003-07-0	3.64
Poly(Ethylene)	9002-88-4	0.32
Carbon Nanotubes	1333-86-4	0.03

## Section 4- First-aid Measures

### Description of first aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately rinse with water.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

## Section 5- Fire-fighting measures

### (a) Suitable Extinguishing Media

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

### (b) Unsuitable extinguishing media

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

### (c) Specific Hazards Arising from the Chemical

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors.

### (d) Hazardous Combustion Products

Carbon oxides.

### (e) 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.

# Safety Data Sheet

Version: V1.0

According to 2012 OSHA Hazard Communication Standard  
(29 CFR 1910.1200)

REPORT NO.: LCS170610001AS 001

## Section 6- Accidental Release Measures

### (a) Personal precautions, protective equipment and emergency procedures

If the battery is released, remove personnel from area until fumes dissipate. Provide maximum ventilation to clear out hazardous gases. The preferred response is to leave the area and allow the vapors to dissipate. Avoid skin and eyes contact or inhalation of vapors. Remove spilled liquid with absorbent and incinerated. If leakage of the battery happens, liquid could be absorbed with sand, earth or other inert substance and contaminated area should be ventilated meantime.

### (b) Environment precautions

Do not allow product to reach sewage system or any water source.  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.

### (c) Methods and material for containment and cleaning up

If battery casing is dismantled, small amounts of electrolyte may leak. Collect all released material in a plastic lined container. Dispose off according to the local law and rules. Avoid leached substances to get into the earth, canalization or waters.

## Section 7- Handling and Storage

### (a) Precautions for safe handling

#### Handling

Handle in accordance with good industrial hygiene and safety practice. Wear personal protective equipment. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

### (b) Conditions for safe storage, including any incompatibilities

#### Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.

#### Incompatible Products

Strong acids. Strong oxidizing agents. Strong bases

## Section 8- Exposure Controls/Personal Protection

### (a) Control parameters

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Manganese dioxide 1313-13-9	TWA: 0.02 mg/m <sup>3</sup> Mn TWA: 0.1 mg/m <sup>3</sup> Mn	(vacated) Ceiling: 5 mg/m <sup>3</sup> Ceiling: 5 mg/m <sup>3</sup> Mn	IDLH: 500 mg/m <sup>3</sup> Mn TWA: 1 mg/m <sup>3</sup> Mn STEL: 3 mg/m <sup>3</sup> Mn
Graphite 7782-42-5	TWA: 2mg/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	IDLH: 1250 mg/m <sup>3</sup> TWA: 2.5 mg/m <sup>3</sup> respirable dust

# Safety Data Sheet

Version: V1.0

 According to 2012 OSHA Hazard Communication Standard  
 (29 CFR 1910.1200)

REPORT NO.: LCS170610001AS 001

		(vacated) TWA: 5 mg/m <sup>3</sup> respirable fraction synthetic TWA: 15 mppcf natural	
Chromium 7440-47-3	TWA: 0.5 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup> (vacated) TWA: 1 mg/m <sup>3</sup>	IDLH: 250 mg/m <sup>3</sup> TWA: 0.5 mg/m <sup>3</sup>
Molybdenum 7439-98-7	TWA: 10 mg/m <sup>3</sup> inhalable fraction TWA: 3 mg/m <sup>3</sup> respirable fraction	(vacated) TWA: 10 mg/m <sup>3</sup>	IDLH: 5000 mg/m <sup>3</sup>

## (b) Appropriate engineering controls

Engineering Measures	Showers Eyewash stations Ventilation systems
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## (c) Individual protection measures, such as personal protective equipment

Eye/Face Protection	Face protection shield.
Skin and body Protection	Wear protective gloves and protective clothing. Long sleeved clothing. Chemical resistant apron. 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. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. For environmental protection, remove and wash all contaminated protective equipment before re-use.

## Section 9- Physical and Chemical Properties

Form	Solid
Color	Silver
Odour	No available
pH	No available
Melting point/freezing point	No available
Boiling Point and Boiling range	No available
Flash Point	No available
Upper/lower flammability or explosive limits	No available



# Safety Data Sheet

**Version: V1.0**

 According to 2012 OSHA Hazard Communication Standard  
 (29 CFR 1910.1200)

REPORT NO.: LCS170610001AS 001

<b>Vapor Pressure</b>	No available
<b>Vapor Density</b>	No available
<b>Relative density</b>	No available
<b>Solubility in Water</b>	No available
<b>Auto-ignition temperature</b>	No available
<b>Decomposition temperature</b>	No available
<b>Evaporation rate</b>	No available
<b>Flammability (soil, gas)</b>	No available
<b>Viscosity</b>	No available
<b>Section 10- Stability and reactivity</b>	
<b>Reactivity</b>	No information available.
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of Hazardous Reactions</b>	None under normal processing.
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	Exposure to air or moisture over prolonged periods. Excessive heat.
<b>Incompatible materials</b>	Acids. Bases. Oxidizing agent.
<b>Hazardous Decomposition Products</b>	Carbon oxides.
<b>Section 11 – Toxicological Information</b>	
<b>Product Information</b>	Product does not present an acute toxicity hazard based on known or supplied information. In case of rupture:
<b>Irritation</b>	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.
<b>Eye contact</b>	Specific test data for the substance or mixture is not available. Causes burns. (based on components). Corrosive to the eyes and may cause severe damage including blindness. Causes serious eye damage. May cause irreversible damage to eyes.
<b>Skin contact</b>	Specific test data for the substance or mixture is not available. Corrosive. (based on components). Causes burns.
<b>Ingestion</b>	Specific test data for the substance or mixture is not available. Causes burns. (based on components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth

# Safety Data Sheet

Version: V1.0

 According to 2012 OSHA Hazard Communication Standard  
 (29 CFR 1910.1200)

REPORT NO.: LCS170610001AS 001

		and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways.			
<b>Component Information</b>					
<b>Chemical Name</b>		<b>Oral LD50</b>	<b>Dermal LD50</b>	<b>Inhalation LC50</b>	
Iron 7439-89-6		=984 mg/kg ( Rat )	-	-	
Manganese dioxide 1313-13-9		=9000 mg/kg ( Rat )	> 20 mL/kg ( Rabbit )	-	
Propylene carbonate 108-32-7		=29000 mg/kg ( Rat )	-	-	
Graphite 7782-42-5		>10000 mg/kg ( Rat )	-	-	
<b>Information on toxicological effects</b>					
<b>Symptoms</b>		Redness. Burning. May cause blindness. Coughing and/ or wheezing.			
<b>Delayed and immediate effects as well as chronic effects from short and long-term exposure</b>					
<b>Sensitization:</b>		No information available.			
<b>Mutagenic Effects:</b>		No information available.			
<b>Carcinogenicity:</b>		The table below indicates whether each agency has listed any ingredient as a carcinogen.			
<b>Chemical Name</b>		<b>ACGIH</b>	<b>IARC</b>	<b>NTP</b>	<b>OSHA</b>
Chromium 7440-47-3		-	Group3	-	×
<b>IARC (International Agency for Research on Cancer)</b> <i>Group 3 - Not Classifiable as to Carcinogenicity in Humans</i>					
<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 CFR 1910.1200), this product has been determined to cause systemic target organ toxicity from chronic or repeated exposure. (STOT RE).			
<b>Chronic Toxicity</b>		No known effect based on information supplied. 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. May cause adverse liver effects. Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons. Carcinogenic potential is unknown.			

# Safety Data Sheet

Version: V1.0

 According to 2012 OSHA Hazard Communication Standard  
 (29 CFR 1910.1200)

REPORT NO.: LCS170610001AS 001

<b>Target Organ Effects</b>	Respiratory system. Eyes. Skin. Gastrointestinal tract (GI). Central Vascular System (CVS).Kidney. Liver. Liver. Cardiovascular system. Systemic Toxicity.
<b>Aspiration Hazard</b>	No information available.

## Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document	<b>ATEmix (oral):</b>	1,100.00 mg/kg
	<b>ATEmix (inhalation-gas)</b>	12,500.00 ppm (4 hr)
	<b>ATEmix (inhalation-dust/mist)</b>	4.20 mg/l
	<b>ATEmix (inhalation-vapor)</b>	31.00 ATEmix

## Section 12- Ecological Information

<b>Ecological Toxicity</b>	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

<b>Persistence and Degradability</b>	No information available.
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## Bioaccumulation

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

## Section 13- Disposal Considerations

### Waste treatment methods

<b>Disposal methods</b>	This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261).
<b>Contaminated Packaging</b>	Dispose of contents/containers in accordance with local regulations.
<b>Uncleaned packaging recommendation</b>	Disposal must be made according to official regulations
<b>US EPA Waste Number</b>	D007

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes

# Safety Data Sheet

Version: V1.0

 According to 2012 OSHA Hazard Communication Standard  
 (29 CFR 1910.1200)

REPORT NO.: LCS170610001AS 001

Chromium 7440-47-3	-	Included in waste streams:F032, F034, F035, F037, F038, F039	5.0 mg/L regulatory level	-
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**California Hazardous Waste Codes 141**

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
Lithium 7439-93-2	Corrosive Ignitable Reactive
Molybdenum 7439-98-7	Ignitable powder

## Section 14 – Transport Information

<b>UN Number</b> -DOT, IMDG, IATA	3090
<b>UN Proper shipping name</b> -DOT, IMDG, IATA	Lithium Metal Batteries
<b>Transport hazard class(es)</b> -DOT, IMDG, IATA	9
<b>Environmental hazards</b>	Yes(DOT)
<b>Marine pollutant</b>	Symbol (fish and tree)

**Transport information:**

Lithium Manganese Dioxide Cell (Sample Model: CR2032) is tested and has passed in accordance with UN manual of Tests and Criteria, Part III, subsection 38.3.

The goods shall be complied with the requirements of Section IB of Packing Instruction 968 of 58<sup>th</sup> DGR Manual of IATA, International Civil Aviation Organization, International Maritime Dangerous Goods Code and the US Department of Transportation listed in 49 CFR 173.185, or special provision 188 of IMDG CODE (Amdt. 38-16).

Separate Lithium-ion batteries when shipping to prevent short-circuiting. They should be packed in strong packaging for support during transport, ensure that the goods will not falling, dropping, and breakage, Prevent collapse of cargo piles and wet by rain.

**Transport Fashion:** By air, by sea, by railway, by road.

## Section 15- Regulatory information

**(a) International Inventories**

# Safety Data Sheet

Version: V1.0

 According to 2012 OSHA Hazard Communication Standard  
 (29 CFR 1910.1200)

REPORT NO.: LCS170610001AS 001

<b>TSCA</b>	Complies.				
<b>DSL</b>	All components are listed either on the DSL or NDSL.				
<b>(b) US Federal Regulations</b>					
<b>SARA 313</b>	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.				
<b>Chemical Name</b>	<b>CAS No</b>	<b>Weight-%</b>	<b>SARA 313 – Threshold Values %</b>		
Manganese dioxide	1313-13-9	10-30	1.0		
Ethylene glycol dimethyl ether	110-71-4	5-10	1.0		
Chromium	7440-47-3	1-5	1.0		
<b>SARA 311/312 Hazard Categories</b>					
Acute Health Hazard	No				
Chronic Health Hazard	No				
Fire Hazard	No				
Sudden release of pressure hazard	No				
Reactive Hazard	No				
<b>CWA (Clean Water Act)</b>	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)				
<b>Chemical Name</b>	<b>CWA - Reportable Quantities</b>	<b>CWA - Toxic Pollutants</b>	<b>CWA - Priority Pollutants</b>	<b>CWA - Hazardous Substances</b>	
Chromium 7440-47-3		X	X		
<b>CERCLA</b>	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)				
<b>Chemical Name</b>	<b>Hazardous Substances RQs</b>	<b>Extremely Hazardous Substances RQs</b>	<b>RQ</b>		
Chromium 7440-47-3	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ		
<b>(c) US State Regulations</b>					
<b>California Proposition 65</b>	This product contains the following Proposition 65 chemicals.				
<b>U.S. State Right-to-Know Regulations</b>					
<b>Chemical Name</b>	<b>New Jersey</b>	<b>Massachusetts</b>	<b>Pennsylvania</b>	<b>Rhode Island</b>	<b>Illinois</b>
Manganese dioxide 1313-13-9			X	X	X
Ethylene glycol dimethyl ether 110-71-4	X	X	X	X	X
Graphite 7782-42-5	X	X	X	X	X
Chromium 7440-47-3	X	X	X	X	X
Lithium 7439-93-2	X	X	X		
Molybdenum 7439-98-7	X	X	X		

# Safety Data Sheet

**Version: V1.0**

 According to 2012 OSHA Hazard Communication Standard  
 (29 CFR 1910.1200)

REPORT NO.: LCS170610001AS 001

<b>(d) International Regulations</b>								
<b>Mexico</b>								
<b>National occupational exposure limits</b>								
Component			Carcinogen Status			Exposure Limits		
Manganese dioxide 1313-13-9						Mexico: TWA=0.2 mg/m <sup>3</sup>		
Graphite 7782-42-5						Mexico: TWA= 2 mg/m <sup>3</sup>		
Chromium 7440-47-3						Mexico: TWA= 0.5 mg/m <sup>3</sup>		
<i>Mexico - Occupational Exposure Limits - Carcinogens</i>								
<b>Canada</b>								
<b>WHMIS Hazard Class</b>			Not determined					
<b>Section 16- Additional Information</b>								
NFPA	Health Hazards	1	Flammability	0	Instability	0	Physical and Chemical Hazards	-
HMIS	Health Hazards	0	Flammability	0	Physical Hazard	0	Personal Protection	X
<b>Disclaimer</b>								
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\*\*\*\*\*