

SAFETY DATA SHEET

Product: Alkaline Zinc-Manganese Dry Battery

Model/type reference: LR03

Nominal Voltage: 1.5V

Applicant: DONGGUAN LARGE ELECTRONICS CO., LTD.

No. 8 Jingyi Road, Dongcheng District, Dongguan City,

Guangdong Province.

Report No: P23121200401

Effective date: 2024-01-01

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Shenzhen NTEK New Energy Technology Co., Ltd. Laboratory:

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China.

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Jake Chen Compiled by (name+ signature) ..:

Jake Chen

Jesse Zhang Approved by (name+ signature) ..: Jesse Zhang

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Section 1- Identification of the Substance/Preparation and of the Company/Undertaking

Product Identifier

Product Name: Alkaline Zinc-Manganese Dry Battery

Model No.: LR03

Other means of identification

Synonyms: None

Recommended use of the chemical and restrictions on use

Recommended Use: Alkaline battery

Uses advised against: No information available **Details of the supplier of the safety data sheet**

Manufacturer's/ Supplier Name: DONGGUAN LARGE ELECTRONICS CO., LTD.

Address: No. 8 Jingyi Road, Dongcheng District, Dongguan City, Guangdong Province.

Telephone number of the manufacturer/supplier: +86-769-28055192

Emergency Telephone Number (24h): +86-769-28055192

E-mail address: sunfeilin@juda.cn

Version number: V2.0

Section 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 1 Sub-category A
Serious eye damage/eye irritation	Category 1
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Specific target organ toxicity (repeated	Category 2
exposure)	
Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Gases)	Category 4

GHS Label elements, including precautionary statements

Emergency Overview

Signal word: Danger Hazard Statements Harmful if swallowed Harmful if inhaled

Causes severe skin burns and eye damage

May 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 Silvery, orange and blue Physical State Solid Odor Odorless

PrecautionaryWash face, hands and any exposed skin thoroughly after handlingStatements -Do not eat, drink or smoke when using this productPreventionUse only outdoors or in a well-ventilated area			
Prevention Use only outdoors or in a well-ventilated area			
	Use only outdoors or in a well-ventilated area		
Do not breathe dust/fume/gas/mist/vapors/spray			
Wear protective gloves/protective clothing/eye protection/face protection			
Precautionary Immediately call a POISON CENTER or doctor/physician			
Statements - Specific treatment (see supplemental first aid instructions on this label)			
Response			
Eyes IF IN EYES: Rinse cautiously with water for several minutes. Remove contact len	nses, if		
present and easy to do. Continue rinsing			
Immediately call a POISON CENTER or doctor/physician			
Skin IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Ri	nse skin		
with water/shower			
Wash contaminated clothing before reuse			
Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortab	e for		
breathing			
Call a POISON CENTER or doctor/physician if you feel unwell			
Immediately call a POISON CENTER or doctor/physician	Immediately call a POISON CENTER or doctor/physician		
Ingestion IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwel			
Rinse mouth			
Do NOT induce vomiting			
Precautionary Store locked up			
Statements -			
Storage			
Precautionary Dispose of contents/container to an approved waste disposal plant			
Statements -			
Disposal			
Hazards not Not applicable			
otherwise			
classified			
(HNOC)			
Unknown -			
Toxicity			

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Other	Very toxic to aquatic life with long lasting effects	
information		
Interactions	No information available	
with Other		
Chemicals		

Section 3 - Composition/Information on Ingredients

Chemical Name	CAS Number	Weight-%	Trade Secret
Zinc	7440-66-6	23-27	-
Manganese dioxide	1313-13-9	27-31	-
Graphite	7782-42-5	3-4	-
Polypropylene	9003-07-0	2-3	-
Copper	7440-50-8	1	-
Potassium hydroxide	1310-58-3	4.5-5.5	-
Water	7732-18-5	8-9	-
Iron	7439-89-6	17-19	-
Chromium	7440-47-3	4-5	-
Nickel	7440-02-0	1.5-2.5	-

^{*} The exact percentage (concentration) of composition has been withheld as a trade secret.

Section 4 - First-aid Measures

General Advice	First aid is upon rupture of sealed battery. Show this safety data sheet to the		
	doctor in attendance. Immediate medical attention is required.		

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

Skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Seek immediate medical attention/advice. **Inhalation:** Remove to fresh air. If breathing has stopped, give artificial

respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. 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

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	or poison control center immediately.		
	· ·		
	Self-protection of the first aider: Ensure that medical personnel are aware of		
	the material(s) involved, take precautions to protect themselves and prevent		
	spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct		
	contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal		
	protective equipment as required. Wear personal protective clothing (see section		
	8).		
Most important	Most important symptoms and effects: Burning sensation. Coughing and/ or		
symptoms and	wheezing. Difficulty in breathing.		
effects, both acute			
and delayed			
Indication of any	Notes to Physician: Product is a corrosive material. Use of gastric lavage or		
immediate medical	emesis is contraindicated. Possible perforation of stomach or esophagus should		
attention and	be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may		
special treatment	occur. Marked decrease in blood pressure may occur with moist rales, frothy		
needed	sputum, and high pulse pressure.		

Section 5 – Fire-fighting Measures

Suitable extinguishing	Use extinguishing measures that are appropriate to local circumstances and the		
Media	surrounding environment.		
Unsuitable	CAUTION: Use of water spray when fighting fire may be inefficient.		
extinguishing Media			
Specific Hazards	Product is or contains a sensitizer. May cause sensitization by skin contact.		
arising from the			
chemical			
Hazardous	Carbon oxides.		
Combustion Products			
Explosion Data	Sensitivity to Mechanical Impact: No.		
	Sensitivity to Static Discharge: No.		
Protective Equipment	As in any fire, wear self-contained breathing apparatus pressure-demand,		
and precautions for	MSHA/NIOSH (approved or equivalent) and full protective gear.		
firefighters			

Section 6 – Accidental Release Measures

Personal Precautions,	Personal Precautions: Attention! Corrosive material. Avoid contact with skin,		
protective equipment,	eyes or clothing. Ensure adequate ventilation. Use personal protective		
and emergency	equipment as required. Evacuate personnel to safe areas. Keep people away		
procedures	from and upwind of spill/leak. Avoid breathing vapors or mists. Avoid generation		
	of dust. Do not breathe dust.		
	Other Information: Refer to protective measures listed in Sections 7 and 8.		
Environmental	Refer to protective measures listed in Sections 7 and 8. Prevent further leakage		

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Precautions	or spillage if safe to do so. Should not be released into the environment. Do not		
	allow to enter into soil/subsoil. Prevent product from entering drains.		
Methods and material	Methods for Containment: Prevent further leakage or spillage if safe to do so.		
for containment and	Methods for cleaning up: Pick up and transfer to properly labeled containers.		
cleaning up			

Section 7 - Handling and Storage

Precautions for safe	Handling: In case of rupture. Use only with adequate ventilation and in closed	
handling	systems. Avoid contact with skin, eyes or clothing.	
Conditions for safe	Storage: Keep containers tightly closed in a dry, cool and well-ventilated place.	
storage, including any	Protect from moisture. Store locked up. Keep out of the reach of children. Store	
incompatibilities	away from other materials.	
	Incompatible Products: Acids. Bases. Oxidizing agent.	

Section 8 – Exposure Controls and Personal Protection

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Manganese dioxide	TWA: 0.02 mg/ m³Mn	(vacated) Ceiling: 5 mg/	IDLH: 500 mg/ m³Mn
1313-13-9	TWA: 0.1 mg/m³Mn	m³	TWA: 1 mg/m³Mn
		Ceiling: 5 mg/m³Mn	STEL: 3 mg/m³Mn
Zinc	STEL: 10 mg/	TWA: 5 mg/ m³fume	IDLH: 500 mg/ m ³
7440-66-6	m³respirable	TWA: 15 mg/ m³total	Ceiling: 15 mg/ m³dust
	fraction	dust	TWA: 5 mg/ m³dust and fume
	TWA: 2 mg/	TWA: 5 mg/	STEL: 10 mg/ m³fume
	m³respirable fraction	m³respirable fraction	
Potassium hydroxide	Ceiling: 2 mg/ m ³	(vacated) Ceiling: 2 mg/	Ceiling: 2 mg/ m³
1310-58-3		m³	
Copper	TWA: 0.2 mg/m³fume	TWA: 0.1 mg/m³fume	IDLH: 100 mg/ m³dust, fume
7440-50-8	TWA: 1	TWA: 1 mg/m³dust and	and
	mg/m³Cu dust and	mist	mist
	mist	(vacated) TWA: 0.1	TWA: 1 mg/m³dust and mist
		mg/m³Cu	TWA: 0.1 mg/m³fume
		dust, fume, mist	

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



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Appropriate engineering	Engineering Measures:	
controls	Showers	
	Eyewash stations	
	Ventilation systems.	
Individual protection	Eye/Face Protection: Face protection shield.	
measures, such as personal	Skin and Body Protection: Wear protective gloves and protective	
protective equipment	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. Do not breathe	
	dust.	

Section 9 - Physical and Chemical Properties

	Physical state: Solid					
	Appearance: Silvery, orange and blue Cylinder					
Physical Properties	Color: Silvery, orange and	Color: Silvery, orange and blue				
i roperties	Odor: Odorless					
	Odor Threshold: No inform	nation available				
Chemical Prop	Chemical Properties:					
Property		Values	Remarks/ Method			
рН		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				

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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	Insoluble in water	None known
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/water	0.001	None known
Autoignition temperature	130℃	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	0.001	None known
Explosive properties	No data available	
Oxidizing Properties	No data available	

Other Information

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

Section 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.

Section 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. May cause
	irritation of respiratory tract.



Eye Contact	Specific test data for the substance or mixture is not available. Expected to be an 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.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Manganese dioxide	= 9000 mg/kg (Rat)	-	-
1313-13-9			
Potassium hydroxide	= 214 mg/kg (Rat)	-	-
1310-58-3			
Iron	= 984 mg/kg (Rat)	-	-
7439-89-6			

Information on toxicological effects	Symptoms: Erythema (skin redness). May cause redness and tearing of the eyes. Itching. Rashes. Hives.	
Delayed and immediate effects as well as	Sensitization: No information available.	
chronic effects from short and long-term	Mutagenic Effects: No information available.	
exposure	Carcinogenicity: The table below indicates whether	
	each agency has listed any ingredient as a carcinogen	

Barrier Institute Table 16.	No. 1. Compared to the control of th	
Reproductive Toxicity	No information available.	
STOT - single exposure	No information available.	
STOT - repeated	Causes damage to organs through prolonged or repeated exposure. Based	
exposure	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).	
Chronic Toxicity	No known effect based on information supplied. Chronic exposure to	
	corrosive fumes/gases may cause erosion of the teeth followed by jaw	
	necrosis. Bronchial irritation with chronic cough and frequent attacks of	
	pneumonia are common. Gastrointestinal disturbances may also be see	
	Contains a known or suspected carcinogen. Avoid repeated exposure.	
	Prolonged exposure may cause chronic effects. May cause adverse effects	
	on the bone marrow and blood-forming system.	
Target Organ Effects	Respiratory system. Eyes. Skin. Gastrointestinal tract (GI). Central Vascular	
	System (CVS).Kidney. Liver. Lungs. Heart.	
Aspiration Hazard	No information available.	

Numerical measures of toxicity Product Information



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The values which are on the right are calculated based on chapter 3.1 of the GHS document.

ATEmix (oral): 701.00 mg/kg

ATEmix (inhalation-gas): 7,331.00 ppm (4 hr)
ATEmix (inhalation-dust/mist): 2.44 mg/l
ATEmix (inhalation-vapor): 17.92 ATEmix

Section 12 - Ecological Information

Ecotoxicity

Very toxic to aquatic life with long lasting effects.

Chemical	Toxicity to Algae	Toxicity to Fish	Toxicity to	Daphnia Magna
Name			Microorganisms	(Water Flea)
Zinc7440-66-6	96h EC50: 0.11 -	96h LC50: 2.16 - 3.05		48h EC50: 0.139 -
	0.271	mg/L		0.908
	mg/L	(Pimephales		mg/L
	(Pseudokirchneriella	promelas) 96h		
	subcapitata) 72h	LC50: 0.211 - 0.269		
	EC50:	mg/L		
	0.09 - 0.125 mg/L	(Pimephales		
	(Pseudokirchneriella	promelas) 96h		
	subcapitata)	LC50: = 2.66 mg/L		
		(Pimephales		
		promelas) 96h		
		LC50: = 30 mg/L		
		(Cyprinus		
		carpio) 96h LC50: =		
		0.45		
		mg/L (Cyprinus		
		carpio) 96h		
		LC50: = 7.8 mg/L		
		(Cyprinus		
		carpio) 96h LC50: =		
		3.5		
		mg/L (Lepomis		
		macrochirus)		
		96h LC50: = 0.24		
		mg/L		
		(Oncorhynchus		
		mykiss) 96h		
		LC50: = 0.59 mg/L		
		(Oncorhynchus		
		mykiss) 96h		
		LC50: = 0.41 mg/L		
		(Oncorhynchus		
		mykiss)		

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Potassium		96h LC50: = 80 mg/L	
hydroxide		(Gambusia affinis)	
1310-58-3			
Iron		96h LC50: = 13.6	
7439-89-6		mg/L	
		(Morone saxatilis)	
Copper	96h EC50: 0.031 -	96h LC50: 0.0068 -	48h EC50: = 0.03
7440-50-8	0.054	0.0156	mg/L
	mg/L	mg/L (Pimephales	
	(Pseudokirchneriella	promelas)	
	subcapitata) 72h	96h LC50: = 0.112	
	EC50:	mg/L	
	0.0426 - 0.0535	(Poecilia reticulata)	
	mg/L	96h	
	(Pseudokirchneriella	LC50: = 0.3 mg/L	
	subcapitata)	(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)	

Bioaccumulation

Chemical Name	Log Pow
Manganese dioxide	<0
1313-13-9	
Potassium hydroxide	0.83
1310-58-3	

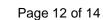
Section 13 - Disposal Considerations

Waste treatment methods

Disposal methods: This material, as supplied, is not a hazardous waste according to Federal regulations

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(40CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements. Dispose of contents/containers in accordance with local regulations.

Contaminated Packaging: Do not reuse empty containers.

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
Zinc7440-66-6	Ignitable powder Toxic
Potassium hydroxide 1310-58-3	Toxic Corrosive
Copper	Toxic
7440-50-8	

Section 14 – Transport Information

Product Name: Alkaline Zinc-Manganese Dry Battery

Model No.: LR03

DOT	NOT REGULATED
	Proper Shipping Name: N/A
	Hazard Class: N/A
TDG	Not regulated
MEX	Not regulated
ICAO	Not regulated
	NOT REGULATED
IATA	Proper Shipping Name: N/A
	Hazard Class: N/A
	NOT REGULATED
IMDG/IMO	Proper Shipping Name: N/A
	Hazard Class: N/A
RID	Not regulated
ADR	Not regulated
ADN	Not regulated

Air transport:

The battery according to Special Provision A123 of IATA DGR 65th edition for transportation.

Sea transport:

The battery according to International Maritime Dangerous Goods (IMDG) Code (Amendment 41-22 Edition)

Section 15 - Regulatory Information

International Inventories

TSCA: Complies

DSL: All components are listed either on the DSL or NDSL.

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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 - Thresho	
			Values %
Manganese dioxide - 1313-13-9	1313-13-9	27-31	1.0
Zinc - 7440-66-6	7440-66-6	23-27	1.0
Copper - 7440-50-8	7440-50-8	1	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 -	CWA - Toxic	CWA - Priority	CWA - Hazardous
	Reportable	Pollutants	Pollutants	Substances
	Quantities			
Zinc		X	Х	
7440-66-6				
Potassium	1000 lb			X
hydroxide				
1310-58-3				
Copper		Х	Х	
7440-50-8				

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	Extremely Hazardous	RQ
	Substances RQs	Substances RQs	
Zinc	1000 lb		RQ 454 kg final RQ
7440-66-6			RQ 1000 lb final RQ
Potassium hydroxide	1000 lb		RQ 1000 lb final RQ
1310-58-3			RQ 454 kg final RQ
Copper	5000 lb		RQ 5000 lb final RQ
7440-50-8			RQ 2270 kg final RQ

US State Regulations

California Proposition 65

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This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New	Massachusetts	Pennsylvania	Rhode	Illinois
	Jersey			Island	
Manganese dioxide			Х	Х	Х
1313-13-9					
Zinc	Х	Х	Х	Х	
7440-66-6					
Potassium hydroxide	Х	Х	Х	Х	
1310-58-3					
Copper	Х	Х	Х	Х	Х
7440-50-8					

International Regulations

Mexico

National occupational exposure limits

Component	Carcinogen Status	Exposure Limits
Manganese dioxide		Mexico: TWA= 0.2 mg/m ³
1313-13-9 (27-31)		
Copper		Mexico: TWA= 1 mg/m³
7440-50-8(1)		Mexico: TWA= 0.2 mg/m ³
		Mexico: STEL= 2 mg/m ³

Mexico - Occupational Exposure Limits - Carcinogens

Canada

WHMIS Hazard Class

Non-controlled

Section 16 - Other Information

NFPA	Health Hazards 1	Flammability 0	Instability 1	Physical and
HMIS	Health Hazards 4	Flammability 0	Physical Hazard 1	Chemical Hazards -
				Personal Protection X

Chronic Hazard Star Legend *=Chronic Health Hazard

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--