# SAFETY DATA SHEET

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Revision Number 1



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

Product identifier

Product Name

TIANQIU Carbon Zinc battery R03/AAA (No lead added)

Other means of identification

Synonyms

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

None

Recommended Use Carbon Zinc Battery

Uses advised against No information available

Details of the supplier of the safety data sheet

 Supplier Name
 GUANGZHOU TIANQIU ENTERPRISE CO., LTD.

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 9/F TianQiu Business Building No.16-30, He Yi Rd., San Yuan Li Ave., GuangZhou China

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# 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.

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Gases)	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4



# 1199792 - TIANQIU Carbon Zinc battery R03/AAA (No lead added)

Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Carcinogenicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 2

#### GHS Label elements, including precautionary statements

		Emergency Ov	erview		
Signal word	Dang	ger			
lazard Statem	ents				
Harmful if swall	owed				
larmful if inhal	ed				
Causes severe	skin burns and eye damage				
Suspected of ca	ausing cancer				
Nay cause dan	hage to organs through prolo	nged or repeated exposur	e		
	is an article which contains a of the product should not re	sult in exposure to the che	emical substance This is a ba	•	
•	No. data available	above hazards		0.1	O de ale
Appearance	No data available	Physical State	Solid	Odor	Odorle

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

#### **Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor/physician 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 Immediately call a POISON CENTER or doctor/physician

#### Skin

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell Immediately call a POISON CENTER or doctor/physician



#### Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth Do NOT induce vomiting

#### **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

17.48% of the mixture consists of ingredient(s) of unknown toxicity

#### Other information

Very toxic to aquatic life with long lasting effects

#### Interactions with Other Chemicals

Use of alcoholic beverages may enhance toxic effects.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%	Trade Secret
Zinc	7440-66-6	15 - 40	*
Manganese dioxide	1313-13-9	10 - 30	*
Graphite	7782-42-5	3 - 7	*
Zinc chloride	7646-85-7	3 - 7	*
Iron	7439-89-6	1 - 5	*
Carbon black	1333-86-4	1 - 5	*
PVC (Chloroethylene, polymer)	9002-86-2	1 - 5	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret

# 4. FIRST AID MEASURES

#### First aid measures

General Advice	First aid is upon rupture of sealed battery.
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.
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 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 symptoms and effects, both acute and delayed

**Most Important Symptoms and** Burning sensation. Coughing and/ or wheezing. Difficulty in breathing. Effects

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

Notes to Physician

Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure.

# **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.

<u>Specific Hazards Arising from the Chemical</u> The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors.

Uniform Fire Code	Corrosive: OtherSolid Toxic: Solid Oxidizer: Class 1Solid
Hazardous Combustion Products Carbon oxides.	
Physical/Chemical Reaction Properties	No data available.
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	Attention! Corrosive material. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid generation of dust. Do not breathe dust.
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. Prevent further leakage 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 for containm	ent 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: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation and in closed systems. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Do not breathe dust. Avoid generation of dust.

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

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Store locked up. Keep out of the reach of children. Store away from other materials.

**Incompatible Products** 

Acids. Bases. Oxidizing agent.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

#### **Exposure Guidelines**

Chemical Name ACGIH TL	V OSHA PEL	NIOSH IDLH
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# 1199792 - TIANQIU Carbon Zinc battery R03/AAA (No lead added)

presence of Polycyclic aromatic hydrocarbons PAH		0	0	<u> </u>
TWA: 2 mg/m³ respirable fractionTWA: 5 mg/m³ respirable fractionTWA: 5 mg/m³ respirable fractionTWA: 5 mg/m³ respirable 	Zinc	STEL: 10 mg/m <sup>3</sup> respirable		
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Zinc chloride 7646-85-7     STEL: 2 mg/m³ fume TWA: 1 mg/m³ fume     TWA: 1 mg/m³ fume (vacated) TWA: 1 mg/m³ fume     IDLH: 50 mg/m³ fume TWA: 1 mg/m³ fume       Carbon black 1333-86-4     TWA: 3 mg/m³ inhalable fraction 1333-86-4     TWA: 3.5 mg/m³ 10LH: 1750 mg/m³				
7646-85-7     TWA: 1 mg/m³ fume     (vacated) TWA: 1 mg/m³ fume     TWA: 1 mg/m³ fume       Carbon black     TWA: 3 mg/m³ inhalable fraction     TWA: 3.5 mg/m³     IDLH: 1750 mg/m³       1333-86-4     TWA: 3 mg/m³ inhalable fraction     TWA: 3.5 mg/m³     IDLH: 1750 mg/m³       Main and the state of the stat	Zinc chloride	STEL: 2 ma/m <sup>3</sup> fume		IDLH: 50 ma/m <sup>3</sup> fume
Carbon black       TWA: 3 mg/m³ inhalable fraction       TWA: 3.5 mg/m³       IDLH: 1750 mg/m³         1333-86-4       TWA: 3 mg/m³ inhalable fraction       TWA: 3.5 mg/m³       IDLH: 1750 mg/m³         1000       TWA: 3.5 mg/m³       TWA: 3.5 mg/m³       TWA: 3.5 mg/m³         1000       TWA: 3.5 mg/m³       TWA: 3.5 mg/m³       TWA: 3.5 mg/m³         1000       TWA: 3.5 mg/m³       TWA: 3.5 mg/m³       TWA: 3.5 mg/m³         1000       TWA: 3.5 mg/m³       TWA: 3.5 mg/m³       TWA: 3.5 mg/m³         1000       TWA: 3.5 mg/m³       TWA: 3.5 mg/m³       TWA: 3.5 mg/m³         1000       TWA: 3.5 mg/m³       TWA: 3.5 mg/m³       TWA: 3.5 mg/m³         1000       TWA: 3.5 mg/m³       TWA: 3.5 mg/m³       TWA: 3.5 mg/m³         1000       TWA: 3.5 mg/m³       TWA: 3.5 mg/m³       TWA: 3.5 mg/m³         1000       TWA: 3.5 mg/m³       TWA: 3.5 mg/m³       TWA: 3.5 mg/m³         1000       TWA: 3.5 mg/m³       TWA: 3.5 mg/m³       TWA: 3.5 mg/m³         1000       TWA: 3.5 mg/m³       TWA: 3.5 mg/m³       TWA: 3.5 mg/m³         1000       TWA: 3.5 mg/m³       TWA: 3.5 mg/m³       TWA: 3.5 mg/m³         1000       TWA: 3.5 mg/m³       TWA: 3.5 mg/m³       TWA: 3.5 mg/m³         1000       TWA: 3.5			(vacated) TWA: 1 mg/m <sup>3</sup> fume	
Carbon black       TWA: 3 mg/m³ inhalable fraction       TWA: 3.5 mg/m³       IDLH: 1750 mg/m³         1333-86-4       1333-86-4       (vacated) TWA: 3.5 mg/m³       IDLH: 1750 mg/m³         TWA: 0.1 mg/m³ Carbon black in presence of Polycyclic aromatic hydrocarbons PAH       IDLH: 1750 mg/m³				
1333-86-4     (vacated) TWA: 3.5 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	Carbon black	TWA: 3 mg/m <sup>3</sup> inhalable fraction		
TWA: 0.1 mg/m <sup>3</sup> Carbon black in presence of Polycyclic aromatic hydrocarbons PAH				TWA: 3.5 mg/m <sup>3</sup>
presence of Polycyclic aromatic hydrocarbons PAH			(,,,,,,,,	
hydrocarbons PAH				
PVC (Chloroethylene polymer) TWA: 1 mg/m <sup>3</sup> respirable	PVC (Chloroethylene, polymer)	TWA: 1 mg/m <sup>3</sup> respirable	-	
9002-86-2 fraction		<b>3</b>		

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits 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, su	ch as personal protective equipment
Eye/Face Protection	If there is a risk of contact:. 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. Do not breathe dust.

# 9. PHYSICAL AND CHEMICAL PROPERTIES



Solid

No data available

No information available

#### **Physical and Chemical Properties**

Physical State Appearance Color

Property Values No data available pН Melting / freezing point No data available Boiling point / boiling range No data available Flash Point No data available **Evaporation Rate** No data available Flammability (solid, gas) No data available Flammability Limit in Air Upper flammability limit No data available Lower flammability limit No data available Vapor pressure No data available Vapor density No data available **Specific Gravity** No data available Water Solubility Negligible Solubility in other solvents No data available Partition coefficient: n-octanol/waterNo data available Autoignition temperature No data available **Decomposition temperature** No data available **Kinematic viscosity** No data available Dynamic viscosity No data available Explosive properties No data available **Oxidizing Properties** No data available

#### **Other Information**

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

#### Remarks Method

None known None known None known None known None known None known

None known None known None known None known None known None known None known None known Odorless No information available

Revision Date 20-Jan-2015

4

# **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

Exposure to air or moisture over prolonged periods. Excessive heat.

### Incompatible materials

Acids. Bases. Oxidizing agent.

#### **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). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal. May cause irritation of respiratory tract. Harmful by inhalation.
Eye Contact	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.
Skin Contact	Specific test data for the substance or mixture is not available. Corrosive. (based on components). Causes burns.
Ingestion	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 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. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be harmful if swallowed.



#### **Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Manganese dioxide 1313-13-9	= 9000 mg/kg (Rat)	-	-
Graphite 7782-42-5	> 10000 mg/kg (Rat)	-	-
Zinc chloride 7646-85-7	= 350 mg/kg (Rat)	-	-
Iron 7439-89-6	= 984 mg/kg (Rat)	-	-
Carbon black 1333-86-4	> 15400 mg/kg (Rat)	>3 g/kg (Rabbit)	-

#### Information on toxicological effects

Symptoms

Erythema (skin redness). Burning. May cause blindness. Coughing and/ or wheezing.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization

No information available.

**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
Carbon black	A3	Group 2B		Х
1333-86-4				
PVC (Chloroethylene,		Group 3		
polymer)				
9002-86-2				

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive Toxicity	No information available.
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 CFR 1910.1200), this product has been determined to cause systemic target organ toxicity from chronic or repeated exposure. (STOT RE).
Chronic Toxicity	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 seen. 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. Carbon black has been classified by the International Agency for Research on Cancer (IARC) as possibly carcinogenic to humans (Group 2B) by inhalation.



Target Organ Effects	Respiratory system. Eyes. Skin. Gastrointestinal tract (GI). Blood. Central Nervous System (CNS). Central Vascular System (CVS). Kidney. Lymphatic System. Cardiovascular system. Liver. Lungs. Pancreas.

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) 1,190.00 mg/kg ATEmix (inhalation-gas) 14,873.00 ppm (4 hr) ATEmix (inhalation-dust/mist) 4.96 mg/l ATEmix (inhalation-vapor) 36.36 ATEmix



# **12. ECOLOGICAL INFORMATION**

This product contains a chemical which, although not listed, meets the IMDG criteria for being a severe marine pollutant

#### 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)
Zinc 7440-66-6	96h EC50: 0.11 - 0.271 mg/L (Pseudokirchneriella subcapitata) 72h EC50: 0.09 - 0.125 mg/L (Pseudokirchneriella subcapitata)	<ul> <li>96h LC50: 2.16 - 3.05 mg/L</li> <li>(Pimephales promelas) 96h</li> <li>LC50: 0.211 - 0.269 mg/L</li> <li>(Pimephales promelas) 96h</li> <li>LC50: = 2.66 mg/L</li> <li>(Pimephales promelas) 96h</li> <li>LC50: = 30 mg/L (Cyprinus carpio) 96h LC50: = 0.45</li> <li>mg/L (Cyprinus carpio) 96h</li> <li>LC50: = 7.8 mg/L (Cyprinus carpio) 96h LC50: = 3.5</li> <li>mg/L (Lepomis macrochirus)</li> <li>96h LC50: = 0.24 mg/L</li> <li>(Oncorhynchus mykiss) 96h</li> </ul>		48h EC50: 0.139 - 0.908 mg/L
Iron		LC50: = 0.59 mg/L (Oncorhynchus mykiss) 96h LC50: = 0.41 mg/L (Oncorhynchus mykiss) 96h LC50: = 13.6 mg/L		
7439-89-6		(Morone saxatilis)		
Carbon black 1333-86-4				24h EC50: > 5600 mg/L

#### Persistence and Degradability

No information available.

#### **Bioaccumulation**

Chemical Name	Log Pow
Manganese dioxide	<0
1313-13-9	

### Other adverse effects

No information available.



# **13. DISPOSAL CONSIDERATIONS**

#### Waste treatment methods

Disposal methods	This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 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.
Contaminated Packaging	Dispose of contents/containers in accordance with local regulations.

#### 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
Zinc	Ignitable powder Toxic
7440-66-6	
Zinc chloride	Toxic
7646-85-7	Corrosive

# 14. TRANSPORT INFORMATION

DOT Proper Shipping Name Hazard Class Marine Pollutant	NOT REGULATED NON REGULATED N/A This product contains a chemical which, although not listed, meets the IMDG criteria for being a severe marine pollutant
TDG	Not regulated
MEX	Not regulated
	Not regulated
IATA Proper Shipping Name Hazard Class	Not regulated NON REGULATED N/A
IMDG/IMO Hazard Class Marine Pollutant	Not regulated N/A Product is a marine pollutant according to the criteria set by IMDG/IMO
RID	Not regulated
ADR	Not regulated
ADN_	Not regulated

# **15. REGULATORY INFORMATION**

#### International Inventories

TSCA DSL Complies 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 %
Zinc - 7440-66-6	7440-66-6	15 - 40	1.0
Manganese dioxide - 1313-13-9	1313-13-9	10 - 30	1.0
Zinc chloride - 7646-85-7	7646-85-7	3 - 7	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
Zinc 7440-66-6		X	X	
Zinc chloride 7646-85-7	1000 lb	X		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 RQs	Extremely Hazardous Substances RQs	RQ
Zinc 7440-66-6	1000 lb		RQ 454 kg final RQ RQ 1000 lb final RQ
Zinc chloride 7646-85-7	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

#### 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				
IIS State Pight-to-Know Pegulations					

U.S. State Right-to-Know Regulations



Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Zinc 7440-66-6	X	X	Х	Х	
Manganese dioxide 1313-13-9			Х	Х	Х
Graphite 7782-42-5	Х	X	Х		
Zinc chloride 7646-85-7	Х	Х	Х	Х	
Carbon black 1333-86-4	Х	Х	Х		Х
PVC (Chloroethylene, polymer) 9002-86-2	Х				

### International Regulations

#### Mexico

#### National occupational exposure limits

Component	Carcinogen Status	Exposure Limits
Manganese dioxide		Mexico: TWA= 0.2 mg/m <sup>3</sup>
1313-13-9 ( 10 - 30 )		
Graphite		Mexico: TWA= 2 mg/m <sup>3</sup>
7782-42-5 (3-7)		_
Zinc chloride		Mexico: TWA 1 mg/m <sup>3</sup>
7646-85-7(3-7)		Mexico: STEL 2 mg/m <sup>3</sup>
Carbon black		Mexico: TWA 3.5 mg/m <sup>3</sup>
1333-86-4(1-5)		Mexico: STEL 7 mg/m <sup>3</sup>

Mexico - Occupational Exposure Limits - Carcinogens

#### Canada

#### WHMIS Hazard Class

Non-controlled

# **16. OTHER INFORMATION**

NFPA HMIS	Health Hazards2Health Hazards0	Flammability 0 Flammability 0	Instability 0 Physical Hazard 0	Physical and Chemical Hazards - Personal Protection X
Prepared By Revision Date Revision Note	Product Stewardship 23 British American Blvd. Latham, NY 12110 1-800-572-6501 20-Jan-2015 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

