# SAFETY DATA SHEET

Issuing Date 23-Apr-2020 Revision Date 23-Apr-2020 Revision Number 2

NGHS / English



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## 1. IDENTIFICATION

**Product identifier** 

Product Name LR03 LR6 LR14 LR20 LR61 6LR61 LR1 LR8D425

Other means of identification

Product Code(s) 1416199

Recommended use of the chemical and restrictions on use

Recommended Use Alkaline battery

Restrictions on use No information available

Details of the supplier of the safety data sheet

Supplier Identification ChangZhou Anyida Power Technology Co., Ltd

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Emergency telephone number

**Company Emergency Phone** 

Number

0519-83270441

## 2. HAZARDS IDENTIFICATION

### Classification

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Vapors)	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 1 Sub-category A



Serious eye damage/eye irritation

Category 1

This is a battery. In case of rupture: the above hazards exist.

Appearance No information available

Physical state Solid

Odor No information available

### GHS Label elements, including precautionary statements

#### **Danger**

### **Hazard statements**

Harmful if swallowed Harmful if inhaled

Causes severe skin burns and eye damage



### **Precautionary Statements - Prevention**

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 dusts or mists

Wear protective gloves/protective clothing/eye protection/face protection

## **Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor

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

### Skin

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

Wash contaminated clothing before reuse

### Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing

Immediately call a POISON CENTER or doctor

### Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor 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

### Other information

Very toxic to aquatic life with long lasting effects.



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Unknown acute toxicity

92.39 % of the mixture consists of ingredient(s) of unknown toxicity

29.68 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

92.39 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

61.13 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

61.13 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

61.13 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### **Substance**

Not applicable.

#### Mixture

Chemical name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Manganese dioxide	1313-13-9	31.26	-	-
Iron	7439-89-6	25.8	-	-
Zinc	7440-66-6	12.48	-	-
Potassium hydroxide	1310-58-3	5.65	-	-
Copper	7440-50-8	3.21	-	-
Polyvinyl chloride	9002-86-2	1.99	-	-
Graphite	7782-42-5	1.91	-	-
Zinc oxide	1314-13-2	0.36	-	-

## 4. FIRST AID MEASURES

### Description of 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.

**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 immediate medical

advice/attention.

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. Get immediate medical advice/attention.

**Skin contact**Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Get immediate medical advice/attention.

**Ingestion** Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water.

Never give anything by mouth to an unconscious person. Get immediate medical

advice/attention.

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.



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Avoid breathing dust/fume/gas/mist/vapors/spray. Use personal protective equipment as

required. See section 8 for more information.

Most important symptoms and effects, both acute and delayed

Symptoms Burning sensation. Coughing and/ or wheezing. Difficulty in breathing.

Indication of any immediate medical attention and special treatment needed

**Note to physicians** 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

surrounding environment.

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

**Unsuitable extinguishing media**Do not scatter spilled material with high pressure water streams.

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.

Hazardous Combustion Products Carbon oxides.

**Explosion Data** 

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

## 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.

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

## Advice on safe 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. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid generation of dust.

## Conditions for safe storage, including any incompatibilities

**Storage Conditions** 

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

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Control parameters

### **Exposure Limits**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Manganese dioxide	TWA: 0.02 mg/m³ Mn respirable	(vacated) Ceiling: 5 mg/m <sup>3</sup>	IDLH: 500 mg/m³ Mn
1313-13-9	particulate matter	Ceiling: 5 mg/m³ Mn	TWA: 1 mg/m <sup>3</sup> Mn
	TWA: 0.1 mg/m <sup>3</sup> Mn inhalable		STEL: 3 mg/m³ Mn
<u>_</u> .	particulate matter		
Zinc	STEL: 10 mg/m³ respirable	TWA: 5 mg/m³ fume	IDLH: 500 mg/m <sup>3</sup>
7440-66-6	fraction	TWA: 15 mg/m³ total dust	Ceiling: 15 mg/m³ dust
	TWA: 2 mg/m³ respirable	TWA: 5 mg/m³ respirable	TWA: 5 mg/m³ dust and fume
Detections budgevide	fraction	fraction	STEL: 10 mg/m³ fume
Potassium hydroxide 1310-58-3	Ceiling: 2 mg/m <sup>3</sup>	(vacated) Ceiling: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>
Copper	TWA: 0.2 mg/m³ fume	TWA: 0.1 mg/m³ fume	IDLH: 100 mg/m <sup>3</sup> dust, fume
7440-50-8		TWA: 1 mg/m <sup>3</sup> dust and mist	and mist
		(vacated) TWA: 0.1 mg/m³ Cu	TWA: 1 mg/m³ dust and mist
		dust, fume, mist	TWA: 0.1 mg/m <sup>3</sup> fume
Polyvinyl chloride	TWA: 1 mg/m³ respirable	-	
9002-86-2	particulate matter	T14/A 45 / 0 / 1 / 1	ID111 4050 / 0
Graphite	TWA: 2 mg/m³ respirable	TWA: 15 mg/m³ total dust	IDLH: 1250 mg/m <sup>3</sup>
7782-42-5	particulate matter all forms	synthetic	TWA: 2.5 mg/m³ respirable
	except graphite fibers	TWA: 5 mg/m³ respirable	dust
		fraction synthetic (vacated) TWA: 2.5 mg/m <sup>3</sup>	
		respirable dust natural	
		(vacated) TWA: 10 mg/m³ total	
		dust synthetic	
		(vacated) TWA: 5 mg/m <sup>3</sup>	
		respirable fraction synthetic	
		TWA: 15 mppcf natural	
Zinc oxide	STEL: 10 mg/m³ respirable	TWA: 5 mg/m³ fume	IDLH: 500 mg/m <sup>3</sup>
1314-13-2	particulate matter	TWA: 15 mg/m³ total dust	Ceiling: 15 mg/m <sup>3</sup> dust
	TWA: 2 mg/m³ respirable	TWA: 5 mg/m³ respirable	TWA: 5 mg/m³ dust and fume
	particulate matter	fraction	STEL: 10 mg/m³ fume
		(vacated) TWA: 5 mg/m³ fume	
		(vacated) TWA: 10 mg/m³ total	



		respii (vacated)	dust ) TWA: 5 mg/m³ rable fraction STEL: 10 mg/m³ fume	
Chemical name	Alberta	British Columbia	Ontario TWAEV	Quebec
Manganese dioxide 1313-13-9	TWA: 0.2 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup> TWA: 0.02 mg/m <sup>3</sup>	TWA: 0.02 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup>
Potassium hydroxide 1310-58-3	Ceiling: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>	CEV: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>
Copper 7440-50-8	TWA: 0.2 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup> TWA: 0.2 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup>
Polyvinyl chloride 9002-86-2	-	TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>	
Graphite 7782-42-5	TWA: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>
Zinc oxide 1314-13-2	TWA: 2 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>

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 controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Face protection shield.

**Hand protection** Wear suitable gloves. Impervious gloves.

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. 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. Avoid breathing

dust/fume/gas/mist/vapors/spray.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Solid

AppearanceNo information availableOdorNo information availableColorNo information availableOdor ThresholdNo information available



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None known

Values Remarks Method Property

No data available pН None known No data available Melting / freezing point None known No data available Boiling point / boiling range None known Flash Point No data available None known None known **Evaporation Rate** No data available Flammability (solid, gas) No data available None known None known

Flammability Limit in Air

**Upper flammability limit** No data available Lower flammability limit No data available

No data available Vapor pressure None known No data available Vapor density None known Relative density No data available None known

Insoluble in water Water Solubility Solubility(ies) No data available

None known Partition coefficient: n-octanol/waterNo data available None known No data available **Autoignition temperature Decomposition temperature** No data available None known No data available Kinematic viscosity None known Dynamic viscosity No data available None known

Other Information

**Explosive properties** No information available **Oxidizing properties** No information available No information available **Softening Point** No information available **Molecular Weight** No information available **VOC Content (%)** No information available **Liquid Density Bulk Density** No information available **Particle Size** No information available **Particle Size Distribution** No information available

## 10. STABILITY AND REACTIVITY

No information available. Reactivity

Stable under normal conditions. Chemical stability

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.

Acids. Bases. Oxidizing agent. Incompatible materials

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:



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**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. 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.

Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Redness. Burning. May cause blindness. Coughing and/ or wheezing.

Numerical measures of toxicity

**Acute Toxicity** 

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

ATEmix (oral) 561.00 mg/kg
ATEmix (inhalation-gas) 5,595.00 mg/L
ATEmix (inhalation-dust/mist) 1.87 mg/L
ATEmix (inhalation-vapor) 13.68 mg/L

Unknown acute toxicity

92.39 % of the mixture consists of ingredient(s) of unknown toxicity

29.68 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

92.39 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

61.13 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas) 61.13 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

61.13 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Manganese dioxide	= 9000 mg/kg (Rat)	-	> 1500 mg/m³ (Rat) 4 h
Iron	= 30 g/kg (Rat)	-	-
Zinc	= 630 mg/kg (Rat)	-	-
Potassium hydroxide	= 284 mg/kg (Rat)	-	-
Graphite	-	-	> 2000 mg/m³ (Rat) 4 h
Zinc oxide	> 5000 mg/kg (Rat)	-	-

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

**Skin corrosion/irritation** Classification based on data available for ingredients. Causes burns.

Serious eye damage/eye irritation Classification based on data available for ingredients. Risk of serious damage to eyes.

Causes burns.



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Respiratory or skin sensitizationNo information available.Germ cell mutagenicityNo information available.CarcinogenicityNo information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Polyvinyl chloride	-	Group 3	-	-
9002-86-2				

IARC (International Agency for Research on Cancer)

Group 3 - Not Classifiable as to Carcinogenicity in Humans

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure**No information available.

**Aspiration hazard** No information available.

# 12. ECOLOGICAL INFORMATION

Marine Pollutant This product contains a chemical which is listed as a severe marine pollutant according to

DOT

**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	-	96h LC50: = 13.6 mg/L	-	-
		(Morone saxatilis)		
Zinc	96h EC50: 0.11 - 0.271 mg/L (Pseudokirchneriella subcapitata) 72h EC50: 0.09 - 0.125 mg/L (Pseudokirchneriella subcapitata)	96h LC50: = 7.8 mg/L (Cyprinus carpio) 96h LC50: = 0.24 mg/L (Oncorhynchus mykiss) 96h LC50: 2.16 - 3.05 mg/L (Pimephales promelas) 96h LC50: = 0.41 mg/L (Oncorhynchus mykiss) 96h LC50: = 0.59 mg/L (Oncorhynchus mykiss) 96h LC50: = 2.66 mg/L (Pimephales promelas) 96h LC50: = 3.5 mg/L	-	48h EC50: 0.139 - 0.908 mg/L (Daphnia magna)
		(Lepomis macrochirus) 96h LC50: 0.211 - 0.269 mg/L (Pimephales promelas) 96h LC50: = 0.45 mg/L (Cyprinus carpio) 96h LC50: = 30 mg/L (Cyprinus carpio)		
Potassium hydroxide	-	96h LC50: = 80 mg/L (Gambusia affinis)	-	-



Copper	72h EC50: 0.0426 -	96h LC50: = 0.2 mg/L	-	48h EC50: = 0.03 mg/L
	0.0535 mg/L	(Pimephales promelas)		(Daphnia magna)
	(Pseudokirchneriella	96h LC50: 0.0068 -		
	subcapitata) 96h EC50:	0.0156 mg/L (Pimephales		
	0.031 - 0.054 mg/L	promelas) 96h LC50: =		
	(Pseudokirchneriella	0.052 mg/L		
	subcapitata)	(Oncorhynchus mykiss)		
		96h LC50: < 0.3 mg/L		
		(Pimephales promelas)		
		96h LC50: = 0.3 mg/L		
		(Cyprinus carpio) 96h		
		LC50: = 0.8 mg/L		
		(Cyprinus carpio) 96h		
		LC50: = 1.25 mg/L		
		(Lepomis macrochirus)		
		96h LC50: = 0.112 mg/L		
		(Poecilia reticulata)		
Graphite	-	96h LC50: > 100 mg/L	-	-
		(Danio rerio)		
Zinc oxide	-	96h LC50: = 1.55 mg/L	-	-
		(Danio rerio)		

Persistence and Degradability

No information available.

### Bioaccumulation

Chemical name	Log Pow
Manganese dioxide	<0
Potassium hydroxide	0.83

MobilityNo information available.Other adverse effectsNo information available.

## 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

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



Zinc oxide	Toxic
1314-13-2	TOMO

## 14. TRANSPORT INFORMATION

DOTNOT REGULATEDProper Shipping NameNON-REGULATED

Hazard Class N/A

Marine Pollutant This product contains a chemical which is listed as a severe marine pollutant according to

DOT

TDG Not regulated

Marine Pollutant This product contains a chemical which is listed as a severe marine pollutant according to

TDG.

MEX Not regulated

ICAO Not regulated

IATA Not regulated

Proper Shipping Name NON REGULATED

Hazard Class N/A

IMDG/IMO Not regulated

Hazard Class N/A

RID Not regulated

ADR Not regulated

<u>ADN</u> Not regulated

## 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

### **International Regulations**

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

**International Inventories** 

TSCA

DSL/NDSL

Contact supplier for inventory compliance status.

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List



**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

## **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	1313-13-9	31.26	1.0
Zinc - 7440-66-6	7440-66-6	12.48	1.0
Copper - 7440-50-8	7440-50-8	3.21	1.0
Zinc oxide - 1314-13-2	1314-13-2	0.36	1.0

### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

## **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	5,000	Х	X	
Potassium hydroxide 1310-58-3	1000 lb			Х
Copper 7440-50-8		X	Х	
Zinc oxide 1314-13-2		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
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**

This product does not contain any Proposition 65 chemicals.



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

This product may contain substances regulated by state right-to-know regulations.

Chemical name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Manganese dioxide 1313-13-9	Χ		X	X	Х
Zinc 7440-66-6	Х	X	X	X	
Potassium hydroxide 1310-58-3	Х	X	X	X	
Copper 7440-50-8	Х	X	X	X	Х
Polyvinyl chloride 9002-86-2	Х				
Graphite 7782-42-5	Х	Х	Х		
Zinc oxide 1314-13-2	Х	Х	Х	Х	

## **16. OTHER INFORMATION**

NFPA Health hazards 1 Flammability 0 Instability 0 Physical and Chemical

Properties -

HMIS Health hazards 0 Flammability 0 Physical hazards 0 Personal Protection X

Prepared By Product Stewardship

23 British American Blvd. Latham, NY 12110 1-800-572-6501

**Issuing Date** 23-Apr-2020

Revision Date 23-Apr-2020

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** 

