

Issuing Date 1/9/2012

Revision Number 0

## 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name</b>	<b>COPPER HR TABLETS</b>
<b>Product Code(s)</b>	3701
<b>Synonyms</b>	none / ninguno / aucun
<b>Recommended Use</b>	Test kit reagent. Industrial (not for food or food contact use). Laboratory chemicals.
<b>Company</b>	LaMotte Company, Inc. 802 Washington Avenue P.O. Box 329 Chestertown, MD 21620 USA
<b>Emergency Telephone Number</b>	24 Hour Emergency Number (CHEM-TEL): USA, Canada, Puerto Rico 1-800-255-3924 Outside North American Continent (Call collect) 813-248-0585

## 2. HAZARDS IDENTIFICATION

**Emergency Overview**

Harmful if swallowed

May cause skin, eye, and respiratory tract irritation

**Appearance** Purple**Physical State** Solid, Tablet**Odor** Odorless

<b>OSHA Regulatory Status</b>	Safety information is given for exposure to the reagent as sold and considers exposure to the chemical if user has direct eye and skin contact.
<b>Potential Health Effects</b>	
<b>Principle Routes of Exposure</b>	Ingestion, Skin contact.
<b>Acute Toxicity</b>	
<b>Eyes</b>	May cause irritation.
<b>Skin</b>	May cause irritation.
<b>Inhalation</b>	May cause irritation of respiratory tract.
<b>Ingestion</b>	Harmful if swallowed.
<b>Chronic Effects</b>	
<b>Aggravated Medical Conditions</b>	None known.
<b>Interactions with Other Chemicals</b>	None known.
<b>Environmental Hazard</b>	No information available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Zincon monosodium salt	62625-22-3	<1
Resin	-	1-10
Excipient	-	10-20
Chloride salt	-	20-30
Boric acid	10043-35-3	25-35
Carbonate salt	-	30-40

LaMotte Company proprietary formulation under the State of New Jersey Trade Secret Protection Law, assigned the NJTSRN 80100291-5014p, and may be disclosed only in a medical emergency.

### 4. FIRST AID MEASURES

<b>General Advice</b>	Do not get in eyes, on skin, or on clothing.
<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water for at least 15 minutes while removing all contaminated clothing and shoes. If symptoms persist, call a physician.
<b>Inhalation</b>	Move to fresh air. If symptoms persist, call a physician.
<b>Ingestion</b>	Drink plenty of water. Consult a physician. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person.
<b>Protection of First-aiders</b>	Use personal protective equipment. See Section 8 for more detail. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

### 5. FIRE-FIGHTING MEASURES

<b>Flash Point</b>	Not applicable			
<b>Suitable Extinguishing Media</b>	Water spray, dry chemical, carbon dioxide (CO <sub>2</sub> ), or foam.			
<b>Explosion Data</b>				
<b>NFPA</b>	<b>Health Hazard</b> 1	<b>Flammability</b> 0	<b>Stability</b> 0	<b>Physical and Chemical Hazards</b> N/A
<b>HMIS</b>	<b>Health Hazard</b> 1	<b>Flammability</b> 0	<b>Stability</b> 0	

### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Refer to Section 8.
<b>Methods for Containment</b>	Prevent dust cloud.
<b>Methods for Cleaning Up</b>	Avoid dust formation. Sweep up and shovel into suitable containers for disposal. Keep in suitable and closed containers for disposal.

### 7. HANDLING AND STORAGE

<b>Handling</b>	Handle in accordance with good industrial hygiene and safety practice. Prevent contact with skin, eyes, and clothing. Do not ingest. Do not eat, drink, or smoke when using this product.
-----------------	---

**Storage**

Keep containers tightly closed in a dry, cool, and well-ventilated place. Keep out of the reach of children. Keep away from direct sunlight.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Zincon monosodium salt 62625-22-3	None Known	None Known	None Known
Resin	None Known	None Known	None Known
Excipient	None Known	None Known	None Known
Chloride salt	None Known	None Known	None Known
Boric acid 10043-35-3	= 6 mg/m <sup>3</sup> STEL TWA: 2 mg/m <sup>3</sup>	None Known	None Known
Carbonate salt	None Known	None Known	None Known

**Engineering Measures**

Ensure adequate ventilation, especially in confined areas.

**Personal Protective Equipment****Eye/Face Protection**

Safety glasses with side-shields. Avoid contact with eyes.

**Skin and Body Protection**

Wear latex or nitrile gloves.

**Respiratory Protection**

None required under normal usage.

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wear suitable gloves and eye/face protection. Wash hands and face before breaks and immediately after handling the product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Purple	<b>Odor</b>	Odorless
<b>Physical State</b>	Solid, Tablet	<b>pH</b>	6 (1 tablet in 10mL of water)
<b>Flash Point</b>	Not applicable	<b>Autoignition Temperature</b>	6.0
<b>Boiling Point/Range</b>	Not applicable	<b>Freezing Point</b>	Not applicable
<b>Explosion Limits</b>	Not applicable		No information available
No data available		<b>Molecular Weight</b>	No data available
<b>Water Solubility</b>	Soluble in water	<b>Solubility</b>	Soluble

## 10. STABILITY AND REACTIVITY

**Stability**

Stable.

**Incompatible Products**

None known based on information supplied.

**Conditions to Avoid**

Exposure to air or moisture over prolonged periods. Extremes of temperature and direct sunlight. Keep away from children.

**Hazardous Reactions**

Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity****LD50 Oral VALUE (mg/kg)**

Oral Rat LD50: 195mg/kg for N,N-Diethyl-p-phenylenediamine sulfate

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Zincon monosodium salt	None Known	None Known	None Known
Resin	None Known	None Known	None Known
Excipient	10 g/kg ( Rat )	None Known	None Known
Chloride salt	2600 mg/kg ( Rat )	None Known	None Known
Boric acid	2660 mg/kg ( Rat )	2000 mg/kg ( Rabbit )	None Known
Carbonate salt	1440 mg/kg ( Rat )	1.87 mg/kg ( Rat )	None Known

**Chronic Toxicity**

Chemical Name	ACGIH	IARC	NTP	OSHA
Zincon monosodium salt	None Known	None Known	None Known	None Known
Resin	None Known	None Known	None Known	None Known
Excipient	None Known	None Known	None Known	None Known
Chloride salt	None Known	None Known	None Known	None Known
Boric acid	None Known	None Known	None Known	None Known
Carbonate salt	None Known	None Known	None Known	None Known

Chemical Name	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Zincon monosodium salt	None Known	None Known	None Known
Resin	None Known	None Known	None Known
Excipient	None Known	None Known	None Known
Chloride salt	None Known	None Known	None Known
Boric acid	None Known	None Known	None Known
Carbonate salt	None Known	None Known	None Known

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

No information available.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Zincon monosodium salt	None Known	None Known	None Known	None Known
Resin	None Known	None Known	None Known	None Known
Excipient	None Known	None Known	None Known	None Known
Chloride salt	EC50 = 2500 mg/L 72 h	LC50= 2010 mg/L Lepomis macrochirus 96 h	None Known	EC50 = 825 mg/L 48 h
Boric acid	None Known	None Known	None Known	EC50 658 - 875 mg/L 48 h EC50 = 115.0 mg/L 48 h
Carbonate salt	None Known	None Known	None Known	None Known
Chemical Name	Log Pow			
Zincon monosodium salt	None Known			
Resin	None Known			
Excipient	None Known			
Chloride salt	None Known			
Boric acid	= -0.757 25 °C			
Carbonate salt	None Known			

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method**

Dispose of in accordance with local regulations. Can be incinerated, when in compliance with local regulations. Should not be released into the environment.

**Contaminated Packaging**

Dispose of in accordance with local regulations.

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes

Zincon monosodium salt - 62625-22-3	None Known	None Known	None Known	None Known
Resin -	None Known	None Known	None Known	None Known
Excipient -	None Known	None Known	None Known	None Known
Chloride salt -	None Known	None Known	None Known	None Known
Boric acid - 10043-35-3	None Known	None Known	None Known	None Known
Carbonate salt -	None Known	None Known	None Known	None Known

#### 14. TRANSPORT INFORMATION

**DOT** Not regulated

**IATA** Not regulated

**IMDG/IMO** Not regulated

#### 15. REGULATORY INFORMATION

##### International Inventories

Component	TSCA	DSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Zincon monosodium salt 62625-22-3 ( <1 )	Present	X	X	ENCS	IECSC	KECL	X	X
Resin ( 1-10 )	XU	X	EINECS/ELINCS	6-902	X	KE-25266	X	X
Excipient ( 10-20 )	Present	X	X	ENCS	X	KE-17416	X	X
Chloride salt ( 20-30 )	Present	X	X	1-228	X	KE-29086	X	X
Boric acid 10043-35-3 ( 25-35 )	Present	X	X	1-63	X	KE-03499	X	X
Carbonate salt ( 30-40 )	Present	X	X	1-153	X	KE-29083	X	X

##### U.S. Federal Regulations

###### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any 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 %
Zincon monosodium salt	62625-22-3	<1	None Known
Resin		1-10	None Known
Excipient		10-20	None Known
Chloride salt		20-30	None Known
Boric acid	10043-35-3	25-35	None Known
Carbonate salt		30-40	None Known

###### SARA 311/312 Hazard Categories

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	Yes
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

###### Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Zincon monosodium salt 62625-22-3 (<1)	None Known	None Known	None Known	None Known
Resin (1-10)	None Known	None Known	None Known	None Known
Excipient (10-20)	None Known	None Known	None Known	None Known
Chloride salt (20-30)	None Known	None Known	None Known	None Known
Boric acid 10043-35-3 (25-35)	None Known	None Known	None Known	None Known
Carbonate salt (30-40)	None Known	None Known	None Known	None Known

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Zincon monosodium salt	62625-22-3	<1	None Known	None Known	None Known	None Known
Resin		1-10	None Known	None Known	None Known	None Known
Excipient		10-20	None Known	None Known	None Known	None Known
Chloride salt		20-30	None Known	None Known	None Known	None Known
Boric acid	10043-35-3	25-35	None Known	None Known	None Known	None Known
Carbonate salt		30-40	None Known	None Known	None Known	None Known

**CERCLA**

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Zincon monosodium salt	None Known	None Known
Resin	None Known	None Known
Excipient	None Known	None Known
Chloride salt	None Known	None Known
Boric acid	None Known	None Known
Carbonate salt	None Known	None Known

**U.S. State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals

Chemical Name	CAS-No	California Prop. 65
Zincon monosodium salt	62625-22-3	None Known
Resin		None Known
Excipient		None Known
Chloride salt		None Known
Boric acid	10043-35-3	None Known
Carbonate salt		None Known

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

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Zincon monosodium salt	None Known	None Known	None Known	None Known	None Known
Resin	None Known	None Known	None Known	None Known	None Known
Excipient	None Known	None Known	None Known	None Known	None Known
Chloride salt	None Known	None Known	None Known	None Known	None Known
Boric acid	None Known	X	None Known	None Known	None Known
Carbonate salt	None Known	None Known	None Known	None Known	None Known

**International Regulations**

**Mexico - Grade**

Chemical Name	Carcinogen Status	Exposure Limits
Zincon monosodium salt	None Known	None Known
Resin	None Known	None Known
Excipient	None Known	None Known
Chloride salt	None Known	None Known
Boric acid	None Known	None Known
Carbonate salt	None Known	None Known

**Canada**

Component	WHMIS Hazard Class
Zincon monosodium salt 62625-22-3 ( <1 )	Not determined
Resin ( 1-10 )	Not determined
Excipient ( 10-20 )	Uncontrolled product according to WHMIS classification criteria
Chloride salt ( 20-30 )	Uncontrolled product according to WHMIS classification criteria
Boric acid 10043-35-3 ( 25-35 )	1 % D2A
Carbonate salt ( 30-40 )	1 % D2B E



16. OTHER INFORMATION

NFPA	HMIS	PPE	Transport Symbol						
	<table border="1"> <tr> <td>Health Hazard</td> <td style="text-align: center;">1</td> </tr> <tr> <td>Fire Hazard</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Reactivity</td> <td style="text-align: center;">0</td> </tr> </table>	Health Hazard	1	Fire Hazard	0	Reactivity	0		
Health Hazard	1								
Fire Hazard	0								
Reactivity	0								

Prepared By Regulatory Affairs Department  
 Issuing Date 1/9/2012  
 Revision Date -  
 Revision Note Update to Format.  
 Disclaimer

The information provided on this MSDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

**End of MSDS**

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

**Product identifier**

Product name **Total Iron Tablets**

**Other means of identification**

Product Code(s) **2792A**

UN-No **3260**

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

**Recommended Use** Use as a laboratory reagent. Industrial (not for food or food contact use). Laboratory chemicals.

**Details of the supplier of the safety data sheet**

**Manufacturer Address**

LaMotte Company, Inc.  
802 Washington Avenue  
P.O. Box 329  
Chestertown, MD 21620 USA  
T 410-778-3100  
F 410-778-9748

**Emergency telephone number**

24 Hour Emergency Number (CHEM-TEL):USA, Canada, Puerto Rico 1-800-255-3924 Outside North American Continent (Call collect) 813-248-0585

## 2. HAZARDS IDENTIFICATION

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 4
Serious eye damage/eye irritation	Category 1

### EMERGENCY OVERVIEW

**DANGER**

**Hazard statements**

Harmful if swallowed. Harmful in contact with skin. Causes serious eye damage.



**Appearance** Gray

**Physical state** powder

**Odor** Slight Sulphurous

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.

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 physician.

IF ON SKIN: Wash with plenty of soap and water.



Call a POISON CENTER or doctor/physician if you feel unwell  
 Wash contaminated clothing before reuse  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell, Rinse mouth

**Precautionary Statements - Storage**

Store in a well-ventilated place. Keep cool.

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant.

**Other Hazards**

Harmful to aquatic life with long lasting effects

**Unknown Acute Toxicity**

52.5% of the mixture consists of ingredient(s) of unknown toxicity

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Sodium dithionite	7775-14-6	15
Sodium metabisulfite	7681-57-4	25-30

LaMotte Company proprietary formulation under the State of New Jersey Trade Secret Protection Law, assigned the NJTSRN 80100291-5013p, and may be disclosed only in a medical emergency

### 4. FIRST AID MEASURES

**First Aid Measures**

<b>General advice</b>	Do not get in eyes, on skin, or on clothing. Show this safety data sheet to the doctor in attendance.
<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water for at least 15 minutes while removing all contaminated clothing and shoes.
<b>Inhalation</b>	Remove to fresh air. If symptoms arise, call a physician.
<b>Ingestion</b>	Drink plenty of water. Clean mouth with water. Never give anything by mouth to an unconscious person. Consult a physician. Rinse mouth.
<b><u>Self-protection of the first aider</u></b>	Use personal protective equipment. See section 8 for more information. 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.
<b>Notes to Physician</b>	Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**

Water spray, dry chemical, carbon dioxide (CO<sub>2</sub>), or foam.

**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** See section 8.
- Environmental precautions** See Section 12 for additional Ecological Information.

### Methods and material for containment and cleaning up

- Methods for containment** Sweep up in a manner that does not disperse dust and shovel into suitable containers for disposal. Dispose according to federal, state, and local regulations.
- Methods for cleaning up** Use personal protective equipment. Avoid dust formation. After cleaning, flush away traces with water.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

- Handling** Handle in accordance with good industrial hygiene and safety practice. Prevent contact with skin, eyes, and clothing. Do not taste or swallow. Do not eat, drink, or smoke when using this product.

### Conditions for safe storage, including any incompatibilities

- Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from incompatible materials. Keep out of the reach of children.
- Incompatible Products** Acids. Alkalis. Strong oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium dithionite 7775-14-6	-	-	Not Established
Sodium metabisulfite 7681-57-4	TWA: 5 mg/m <sup>3</sup>	-	TWA: 5 mg/m <sup>3</sup>

### Appropriate engineering controls

- Engineering Measures** Showers  
Eyewash stations  
Ventilation systems.

### Individual protection measures, such as personal protective equipment

- Eye/Face Protection** Wear safety glasses with side shields (or goggles). Goggles.
- Skin and body protection** Wear protective gloves/clothing.
- Respiratory protection** Maintain adequate ventilation.
- Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. Do not eat, drink or smoke when using this product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

**Physical state** powder  
**Appearance** Gray **Odor** Slight Sulphurous

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	3.75	0.3g in 10mL water
<b>Melting point / freezing point</b>	150 °C No information available	Sodium metabisulfite
<b>Boiling point / boiling range</b>	No information available	
<b>Flash point</b>	No information available	
<b>Evaporation rate</b>		
<b>Flammability (solid, gas)</b>	No information available	
<b>Flammability Limit in Air</b>		
<b>Upper flammability limit:</b>	No information available	
<b>Lower flammability limit:</b>	No information available	
<b>Vapor pressure</b>	No information available	
<b>Vapor density</b>	No information available	
<b>Specific gravity</b>	No information available	
<b>Water solubility</b>	Soluble in water	
<b>Solubility in other solvents</b>	No information available	
<b>Partition coefficient</b>	No information available	
<b>Autoignition temperature</b>	No information available	
<b>Decomposition temperature</b>	No information available	
<b>Kinematic viscosity</b>	No information available	
<b>Dynamic viscosity</b>	No information available	
<b>Explosive properties</b>	No information available	
<b>Oxidizing properties</b>	No information available	

**Other Information**

**Softening point** No information available  
**Molecular weight** No information available  
**VOC Content (%)** No information available  
**Density** No information available  
**Bulk density** No information available

## 10. STABILITY AND REACTIVITY

**Stability** Stable under normal conditions of use and storage.  
**Hazardous Reactions** None under normal processing.  
**Hazardous polymerization** Hazardous polymerization does not occur.  
**Conditions to avoid** Excessive heat. Exposure to air or moisture over prolonged periods. Keep away from children.  
**Incompatible materials** Acids. Alkalis. Strong oxidizing agents.  
**Hazardous decomposition products** Carbon oxides (COx). Sulfur oxides (SOx). Sodium oxides.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure****Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium dithionite 7775-14-6	= 2500 mg/kg ( Rat )	Not Established	Not Established
Sodium metabisulfite 7681-57-4	= 1310 mg/kg ( Rat )	> 2 g/kg ( Rat )	Not Established

**Information on toxicological effects**

Chemical name	ACGIH	IARC	NTP	OSHA

Sodium dithionite 7775-14-6	Not Established	Not Established	Not Established	Not Established
Sodium metabisulfite 7681-57-4	Not Established	Group 3	Not Established	Not Established

ATEmix (oral) 492  
ATEmix (dermal) 1489 mg/kg

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

**Unknown Aquatic Toxicity** 58 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
Sodium dithionite 7775-14-6	120: 72 h Desmodesmus subspicatus mg/L EC50 87: 96 h Desmodesmus subspicatus mg/L EC50	46 - 68: 96 h Leuciscus idus mg/L LC50 static	98: 48 h Daphnia magna Straus mg/L EC50
Sodium metabisulfite 7681-57-4	40: 96 h Desmodesmus subspicatus mg/L EC50 48: 72 h Desmodesmus subspicatus mg/L EC50	32: 96 h Lepomis macrochirus mg/L LC50 static	89: 24 h Daphnia magna Straus mg/L EC50

### Persistence and degradability

No information available.

### Bioaccumulation/Accumulation

No information available.

Chemical name	Log Pow
Sodium dithionite 7775-14-6	Not Established
Sodium metabisulfite 7681-57-4	-3.7

## 13. DISPOSAL CONSIDERATIONS

### Disposal Methods

Dispose of contents/containers in accordance with local regulations. This material, as supplied, is not a hazardous waste according to state and 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 pursuant to Federal regulations, and the applicable state requirements for the specific area of disposal. Consult the appropriate state, regional, or local regulations for additional requirements.

### Contaminated packaging

Do not reuse empty containers.

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Sodium dithionite 7775-14-6	Not Established	-	Not Established	Not Established
Sodium metabisulfite 7681-57-4	Not Established	-	Not Established	Not Established

Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Sodium dithionite 7775-14-6	Not Established	Not Established	Not Established	Not Established
Sodium metabisulfite 7681-57-4	Not Established	Not Established	Not Established	Not Established

Chemical name	California Hazardous Waste Status
Sodium dithionite 7775-14-6	-

Sodium metabisulfite 7681-57-4	-
-----------------------------------	---

### 14. TRANSPORT INFORMATION

**DOT**

**Proper shipping name** CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.(SODIUM DISULPHITE)  
**UN-No** 3260  
**Hazard Class** 8  
**Packing group** III

**IATA**

**Proper shipping name** CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.(SODIUM DISULPHITE)  
**UN-No** 3260  
**Hazard Class** 8  
**Packing group** III

**IMDG/IMO**

**Proper shipping name** CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.(SODIUM DISULPHITE)  
**UN-No** 3260  
**Hazard Class** 8

### 15. REGULATORY INFORMATION

**International Inventories**

**TSCA** Complies  
**DSL/NDSL** Complies  
**EINECS/ELINCS** Complies  
**ENCS** Complies  
**IECSC** Complies  
**KECL** Complies  
**PICCS** Complies  
**AICS** Complies

**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  
**IECSC** - China Inventory of Existing 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	SARA 313 - Threshold Values %
Sodium dithionite 7775-14-6	Not Established
Sodium metabisulfite 7681-57-4	Not Established

**SARA 311/312 Hazard Categories**

**Acute health hazard** Yes

Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	Yes

**CWA (Clean Water Act)**

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium dithionite 7775-14-6	Not Established	Not Established	Not Established	Not Established
Sodium metabisulfite 7681-57-4	Not Established	Not Established	Not Established	Not Established

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	RQ
Sodium dithionite 7775-14-6	-	Not Established	-
Sodium metabisulfite 7681-57-4	-	Not Established	-

**US State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals

Chemical name	California Proposition 65
Sodium dithionite 7775-14-6	Not Established
Sodium metabisulfite 7681-57-4	Not Established

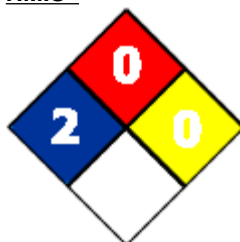
**U.S. State Right-to-Know Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania
Sodium dithionite 7775-14-6	X	X	X
Sodium metabisulfite 7681-57-4	X	X	X

**CPSC (Consumer Product Safety Commission) - Specially Regulated Substances**

**16. OTHER INFORMATION**

<b>NFPA</b>	Health hazard 2	Flammability 0	Instability 0	<b>Physical and Chemical Hazards</b> N/A
<b>HMIS</b>	Health hazard 2	Flammability 0	Stability 0	



Health Hazard	2
Fire Hazard	0
Reactivity	0

Prepared by Regulatory Affairs Department  
Issuing Date Feb-10-2015  
Revision Date Jun-25-2015  
Reason for revision New US GHS format

Disclaimer

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

**End of Material Safety Data Sheet**