

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

### Product identifier

Product name Iron 2 Powder

### Other means of identification

Product Code(s) WL-4451

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**

Toxic to aquatic life with long lasting effects

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical name	CAS No	Weight-%
Sodium sulfite	7757-83-7	3
2,2'-Bipyridine	366-18-7	8
Sodium metabisulfite	7681-57-4	88

LaMotte Company proprietary formulation under the State of New Jersey Trade Secret Protection Law, assigned the NJTSRN 80100291-5074p, 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. Never give anything by mouth to an unconscious person. Consult a physician.
<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 sulfite 7757-83-7	-	-	Not Established
2,2'-Bipyridine 366-18-7	-	-	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. Take off contaminated clothing and wash before reuse.

## 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>
pH	6	(0.1g/10mL water)
Melting point / freezing point	No information available	
Boiling point / boiling range	No information available	
Flash point	No information available	
Evaporation rate		
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Specific gravity	No information available	
Water solubility	Soluble in water	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	No information available	
Explosive properties	No information available	
Oxidizing properties	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 sulfite 7757-83-7	= 820 mg/kg ( Rat )	Not Established	> 22 mg/L ( Rat ) 1 h
2,2'-Bipyridine 366-18-7	= 100 mg/kg ( Rat )	= 250 mg/kg ( Rat )	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 sulfite 7757-83-7	Not Established	Group 3	Not Established	Not Established
2,2'-Bipyridine 366-18-7	Not Established	Not Established	Not Established	Not Established
Sodium metabisulfite 7681-57-4	Not Established	Group 3	Not Established	Not Established

IARC (International Agency for Research on Cancer)  
Group 3 - Not classifiable as to its carcinogenicity to humans

ATEmix (oral) 671  
ATEmix (dermal) 1328 mg/kg

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

**Unknown Aquatic Toxicity** 7.8 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
Sodium sulfite 7757-83-7	Not Established	220 - 460: 96 h Leuciscus idus mg/L LC50 static	330: 24 h Psammechinus miliaris mg/L LC50
2,2'-Bipyridine 366-18-7	Not Established	Not Established	Not Established
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 sulfite 7757-83-7	-4
2,2'-Bipyridine 366-18-7	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 sulfite 7757-83-7	Not Established	-	Not Established	Not Established
2,2'-Bipyridine 366-18-7	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 sulfite 7757-83-7	Not Established	Not Established	Not Established	Not Established
2,2'-Bipyridine 366-18-7	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 sulfite 7757-83-7	-
2,2'-Bipyridine 366-18-7	-
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/NDL** 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/NDL** - 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 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	SARA 313 - Threshold Values %
Sodium sulfite 7757-83-7	Not Established
2,2'-Bipyridine 366-18-7	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	No

**CWA (Clean Water Act)**

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium sulfite 7757-83-7	Not Established	Not Established	Not Established	Not Established
2,2'-Bipyridine 366-18-7	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 sulfite 7757-83-7	-	Not Established	-
2,2'-Bipyridine 366-18-7	-	Not Established	-
Sodium metabisulfite 7681-57-4	-	Not Established	-

**US State Regulations****California Proposition 65**

Chemical name	California Proposition 65
Sodium sulfite 7757-83-7	Not Established
2,2'-Bipyridine 366-18-7	Not Established
Sodium metabisulfite 7681-57-4	Not Established

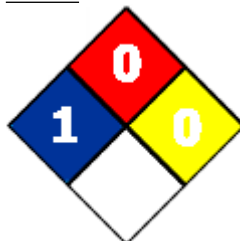
**U.S. State Right-to-Know Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania
Sodium sulfite 7757-83-7	Not Established	Not Established	Not Established
2,2'-Bipyridine 366-18-7	Not Established	Not Established	Not Established
Sodium metabisulfite 7681-57-4	X	X	X

**CPSC (Consumer Product Safety Commission) - Specially Regulated Substances****16. OTHER INFORMATION**

**NFPA** Health hazard 1 Flammability 0 Instability 0 Physical and Chemical Hazards N/A

**HMIS** Health hazard 1 Flammability 0 Stability 1



Health Hazard	1
Fire Hazard	0
Reactivity	1

Prepared by Regulatory Affairs Department  
Issuing Date Jun-01-2015  
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**