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# SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

## 1. Identification

### Product identifier

Product No.:	Product name:	Common name(s), synonym(s)
213200	BD Difco™ Potato Dextrose Agar	No data available

### Other means of identification

**SDS number:** 088100176328

### Recommended restrictions

**Recommended use:** Laboratory Chemicals

**Restrictions on use:** None known.

### Manufacturer/Importer/Distributor Information

#### Manufacturer

Company Name: BD, Integrated Diagnostic Solutions  
Address: 7 Loveton Circle  
Sparks, MD 21152  
USA

Telephone: 1 844 823 5433  
Fax: not available  
Contact Person: Tech Services

**Emergency telephone number:** CHEMTREC 1 800 424 9300

## 2. Hazard(s) identification

### Hazard Classification

Not classified

### Label Elements

**Hazard Symbol:** No symbol



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**Signal Word:** No signal word.

**Hazard Statement:** Not applicable  
**Precautionary Statements** Not applicable

**Other hazards which do not result in GHS classification:** None.

### 3. Composition/information on ingredients

#### Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Sulfurous acid, sodium salt (1:1)	No data available.	7631-90-5	0.1238%
Iron trichloride	No data available.	7705-08-0	0.0248%
Sulfuric acid copper(2+) salt (1:1)	No data available.	7758-98-7	0.0012%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### 4. First-aid measures

#### Description of necessary first-aid measures

**General information:** Get medical attention if symptoms occur.

**Inhalation:** Provide fresh air, warmth and rest, preferably in comfortable upright sitting position.

**Skin Contact:** Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.



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**Eye contact:** Flush thoroughly with water. If irritation occurs, get medical assistance.

**Ingestion:** Get medical attention if symptoms occur.

**Personal Protection for First-aid Responders:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

**Most important symptoms/effects, acute and delayed**

**Symptoms:** No data available.

**Hazards:** No data available.

**Indication of immediate medical attention and special treatment needed**

**Treatment:** No data available.

<b>5. Fire-fighting measures</b>
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**General Fire Hazards:** Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Use water spray to keep fire-exposed containers cool.

**Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media:** Water spray, fog, CO<sub>2</sub>, dry chemical, or alcohol resistant foam.

**Unsuitable extinguishing media:** None known.

**Specific hazards arising from the chemical:** None known.

**Special protective equipment and precautions for firefighters**

**Special fire fighting procedures:** No unusual fire or explosion hazards noted.



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**Special protective equipment for fire-fighters:**

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:**

No special precautionary health measures should be needed under anticipated conditions of use.

**Methods and material for containment and cleaning up:**

No specific clean-up procedure noted.

**Environmental Precautions:**

Avoid release to the environment.

## 7. Handling and storage

### Handling

**Technical measures (e.g. Local and general ventilation):**

No special requirements under ordinary conditions of use and with adequate ventilation.

**Safe handling advice:**

When using do not eat, drink or smoke. Read and follow manufacturer's recommendations. Use personal protective equipment as required.

**Contact avoidance measures:**

No data available.

### Storage

**Safe storage conditions:**

Store in a cool, dry place. Keep container tightly closed.

**Safe packaging materials:**

No data available.



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## 8. Exposure controls/personal protection

### Control Parameters

#### Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Sulfurous acid, sodium salt (1:1)	TWA	5 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	TWA	5 mg/m <sup>3</sup>	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)
Sulfurous acid, sodium salt (1:1) - Particulate.	AN ESL	5 µg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (07 2011)
	ST ESL	50 µg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (07 2011)
Sulfurous acid, sodium salt (1:1)	TWA PEL	5 mg/m <sup>3</sup>	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (08 2010)
	TWA	5 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values, as amended (12 2010)
	REL	5 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
Iron trichloride - as Fe	TWA	1 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	TWA	1 mg/m <sup>3</sup>	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)
Iron trichloride	AN ESL	1 µg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	ST ESL	10 µg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
Iron trichloride - as Fe	TWA PEL	1 mg/m <sup>3</sup>	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (08 2010)
	TWA	1 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values, as amended (12 2010)
	REL	1 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
Sulfuric acid copper(2+) salt (1:1) - Dust.	AN ESL	1 µg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	ST ESL	10 µg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
Sulfuric acid copper(2+)	TWA PEL	1 mg/m <sup>3</sup>	US. California Code of Regulations, Title



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salt (1:1) - Dust and mist. - as Cu			8, Section 5155. Airborne Contaminants, as amended (08 2010)
	TWA	1 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values, as amended (03 2014)
Sulfuric acid copper(2+) salt (1:1) - Fume. - as Cu	TWA	0.2 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values, as amended (03 2014)
Sulfuric acid copper(2+) salt (1:1) - Dust and mist. - as Cu	REL	1 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
Sulfuric acid copper(2+) salt (1:1) - Fume. - as Cu	REL	0.1 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2016)

**Appropriate Engineering Controls**

No special requirements under ordinary conditions of use and with adequate ventilation.

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

**General information:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

**Eye/face protection:** Wear safety glasses with side shields (or goggles).

**Skin Protection**

**Hand Protection:** Chemical resistant gloves

**Other:** Wear a lab coat or similar protective clothing.

**Respiratory Protection:** Respiratory protection not required.

**Hygiene measures:** Observe good industrial hygiene practices.

**9. Physical and chemical properties**

**Information on basic physical and chemical properties**

**Appearance**

**Physical state:** solid

**Form:** solid

**Color:** According to product specification.



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<b>Odor:</b>	Characteristic
<b>Odor Threshold:</b>	No data available.
<b>Melting Point:</b>	No data available.
<b>Boiling Point:</b>	No data available.
<b>Flammability:</b>	Not applicable
<b>Upper/lower limit on flammability or explosive limits</b>	
Explosive limit - upper:	Not applicable
Explosive limit - lower:	Not applicable
<b>Flash Point:</b>	Not applicable
<b>Self Ignition Temperature:</b>	Not determined.
<b>Decomposition Temperature:</b>	Not applicable
<b>pH:</b>	No data available.
<b>Viscosity</b>	
Dynamic viscosity:	Not determined.
Kinematic viscosity:	Not determined.
Flow Time:	Not applicable
<b>Solubility(ies)</b>	
Solubility in Water:	Completely Soluble
Solubility (other):	No data available.
<b>Partition coefficient (n- octanol/water):</b>	No data available.
<b>Vapor pressure:</b>	No data available.
<b>Relative density:</b>	No data available.
<b>Density:</b>	No data available.
<b>Bulk density:</b>	Not applicable
<b>Vapor density (air=1):</b>	Not applicable
<b>Particle characteristics</b>	
Particle Size:	Not applicable
Particle Size Distribution:	Not applicable
Specific surface area:	Not applicable
Surface charge/Zeta potential:	Not applicable
<b>Assessment:</b>	Not applicable
<b>Shape:</b>	Not applicable
<b>Crystallinity:</b>	Not applicable
<b>Surface treatment:</b>	Not applicable



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**Other information**

**Metal Corrosion:** Non-corrosive per US Department of Transportation testing protocol.

**10. Stability and reactivity**

**Reactivity:** Material is stable under normal conditions.

**Chemical Stability:** Material is stable under normal conditions.

**Possibility of hazardous reactions:** Not known.

**Conditions to avoid:** Avoid exposure to high temperatures or direct sunlight.

**Incompatible Materials:** Strong oxidizers.

**Hazardous Decomposition Products:** Not known.

**11. Toxicological information**

**Information on likely routes of exposure**

**Inhalation:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.

**Ingestion:** No data available.

**Information on toxicological effects**

**Acute toxicity (list all possible routes of exposure)**

**Oral**

**Product:** No data available.

**Components:**





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Sulfurous acid, sodium salt (1:1)	LD 50 (Rat): 2,746 mg/kg Read-across from supporting substance (structural analogue or surrogate), Key study LD 50 (Rat): 2,610 mg/kg Read-across from supporting substance (structural analogue or surrogate), Key study LD 50 (Rat): 3,200 mg/kg Read-across from supporting substance (structural analogue or surrogate), Supporting study LD 50 (Rat): > 2,150 - < 2,610 mg/kg Read-across from supporting substance (structural analogue or surrogate), Key study LD 50 (Rat): > 2,000 mg/kg Read-across from supporting substance (structural analogue or surrogate), Supporting study
Iron trichloride	LD 50 (Rat): 500 - 5,000 mg/kg Experimental result, Supporting study LD 50 (Mouse): 895 mg/kg Experimental result, Supporting study LD 50 (Mouse): 440 mg/kg Experimental result, Key study LD 50 (Rat): 900 mg/kg Experimental result, Supporting study LD 50 (Rat): 2,900 mg/kg Experimental result, Supporting study LD 50 (Rat): 1,872 mg/kg Experimental result, Supporting study
Sulfuric acid copper(2+) salt (1:1)	LD 50 (Rat): 482 mg/kg Experimental result, Key study LD 50 (Rat): 481 mg/kg Experimental result, Key study

#### **Dermal**

<b>Product:</b>	No data available.
<b>Components:</b>	
Sulfurous acid, sodium salt (1:1)	LD 50 (Rat): > 2,000 mg/kg Read-across from supporting substance (structural analogue or surrogate), Key study LD 50 (Rat): > 2,000 mg/kg Read-across from supporting substance (structural analogue or surrogate), Key study LD 50 (Rat): > 2,000 mg/kg Read-across from supporting substance (structural analogue or surrogate), Key study
Iron trichloride	LD 50 (Rat): > 2,000 mg/kg Read-across based on grouping of substances (category approach), Key study
Sulfuric acid copper(2+) salt (1:1)	LD 50 (Rat): > 2,000 mg/kg Experimental result, Key study

#### **Inhalation**

<b>Product:</b>	No data available.
<b>Components:</b>	



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Sulfurous acid, sodium salt (1:1)	LC 50 (Rat): > 22 mg/l Aerosolized dust, Read-across from supporting substance (structural analogue or surrogate), Key study LC 50 (Rat): > 5.5 mg/l Aerosolized dust, Read-across from supporting substance (structural analogue or surrogate), Key study LC 50 (Rat): > 5.5 mg/l Aerosolized dust, Read-across from supporting substance (structural analogue or surrogate), Key study LC 50 (Rat): > 5.5 mg/l Aerosolized dust, Read-across from supporting substance (structural analogue or surrogate), Key study
Iron trichloride	Aerosol, Experimental result, Supporting study
Sulfuric acid copper(2+) salt (1:1)	No data available.

#### Repeated dose toxicity

##### Product:

No data available.

##### Components:

Sulfurous acid, sodium salt (1:1)	NOAEL (Rat, Oral, 1 - 2 yr): 0.05 %(m) Oral Experimental result, Supporting study NOAEL (Rat(female), Oral, 8 Weeks): 70 mg/kg Oral Read-across from supporting substance (structural analogue or surrogate), Supporting study NOAEL (Rat(Female, Male), Oral, 10 - 730 d): 108 mg/kg Oral Read-across from supporting substance (structural analogue or surrogate), Supporting study NOAEL (Rat(Female, Male), Oral, 21 - 104 Weeks): 108 mg/kg Oral Read-across from supporting substance (structural analogue or surrogate), Key study NOAEL (Pig(Female, Male), Oral, 48 Weeks): 0.35 %(m) Oral Read-across from supporting substance (structural analogue or surrogate), Supporting study
Iron trichloride	LOAEL (Rat, Oral): 10 mg/l Oral Experimental result, Supporting study NOAEL (Rat(Female, Male), Oral, 13 Weeks): 0.5 %(m) Oral Experimental result, Key study NOAEL (Rat, Oral): 1 mg/l Oral Experimental result, Supporting study NOAEL (Rat, Oral, 6 Months): 2 mg/kg Oral Experimental result, Supporting study
Sulfuric acid copper(2+) salt (1:1)	NOAEL (Rat(Female, Male), Oral, 92 d): 1,000 ppm(m) Oral Experimental result, Key study LOAEL (Rat(Female, Male), Oral, 92 d): 2,000 ppm(m) Oral Experimental result, Key study LOAEL (Rat(Female, Male), Inhalation): 0.2 mg/m3 Inhalation Experimental result, Key study LOAEL (Mouse(Female, Male), Oral, 92 d): 2,000 ppm(m) Oral Experimental result, Key study NOAEL (Mouse(Female, Male), Oral, 92 d): 1,000 ppm(m) Oral Experimental result, Key study



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#### **Skin Corrosion/Irritation**

<b>Product:</b>	No data available.
<b>Components:</b>	
Sulfurous acid, sodium salt (1:1)	in vivo (Rabbit): Not irritant
Iron trichloride	in vivo (Rabbit): not corrosive
Sulfuric acid copper(2+) salt (1:1)	in vivo (Rabbit): Not irritant

#### **Serious Eye Damage/Eye Irritation**

<b>Product:</b>	No data available.
<b>Components:</b>	
Sulfurous acid, sodium salt (1:1)	No data available.
Iron trichloride	No data available.
Sulfuric acid copper(2+) salt (1:1)	No data available.

#### **Respiratory or Skin Sensitization**

<b>Product:</b>	No data available.
<b>Components:</b>	
Sulfurous acid, sodium salt (1:1)	No data available.
Iron trichloride	No data available.
Sulfuric acid copper(2+) salt (1:1)	No data available.

#### **Carcinogenicity**

<b>Product:</b>	No data available.
<b>Components:</b>	
Sulfurous acid, sodium salt (1:1)	No data available.
Iron trichloride	No data available.
Sulfuric acid copper(2+) salt (1:1)	No data available.

#### **IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogens present or none present in regulated quantities

#### **ACGIH: US.ACGIH Threshold Limit Values:**

No carcinogens present or none present in regulated quantities



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**US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogens present or none present in regulated quantities

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:**

No carcinogens present or none present in regulated quantities

**Germ Cell Mutagenicity**

**In vitro**

**Product:** No data available.

**Components:**

Sulfurous acid, sodium salt (1:1) No data available.

Iron trichloride No data available.

Sulfuric acid copper(2+) salt (1:1) No data available.

**In vivo**

**Product:** No data available.

**Components:**

Sulfurous acid, sodium salt (1:1) No data available.

Iron trichloride No data available.

Sulfuric acid copper(2+) salt (1:1) No data available.

**Reproductive toxicity**

**Product:** No data available.

**Components:**

Sulfurous acid, sodium salt (1:1) No data available.

Iron trichloride No data available.

Sulfuric acid copper(2+) salt (1:1) No data available.

**Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.

**Components:**

Sulfurous acid, sodium salt (1:1) No data available.

Iron trichloride No data available.

Sulfuric acid copper(2+) salt (1:1) No data available.

**Specific Target Organ Toxicity - Repeated Exposure**



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**Product:** No data available.

**Components:**

Sulfurous acid, sodium salt (1:1)	No data available.
Iron trichloride	No data available.
Sulfuric acid copper(2+) salt (1:1)	No data available.

**Aspiration Hazard**

**Product:** No data available.

**Components:**

Sulfurous acid, sodium salt (1:1)	No data available.
Iron trichloride	No data available.
Sulfuric acid copper(2+) salt (1:1)	No data available.

**Information on health hazards**

**Other hazards**

**Product:** No data available.

**12. Ecological information**

**Ecotoxicity:**

**Acute hazards to the aquatic environment:**

**Fish**

**Product:** No data available.

**Components:**

Sulfurous acid, sodium salt (1:1)	LC 50 (Leuciscus idus, 96 h): > 215 - < 464 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study LC 50 (Oncorhynchus mykiss, 96 h): 177.8 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study LC 50 (Leuciscus idus, 96 h): 316 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study LC 50 (Leuciscus idus, 96 h): 316 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study NOAEL (Leuciscus idus, 96 h): 215 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study
Iron trichloride	NOAEL (Gambusia affinis, 96 h): 55.1 mg/l Not specified, Not specified LC 50 (Lepomis macrochirus, 96 h): 20.3 mg/l Experimental result, Supporting study LC 50 (Gambusia affinis, 96 h): 75.6 mg/l Not specified, Not specified LC 50 (Oryzias latipes, 48 h): 23 mg/l Not specified, Not specified



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Sulfuric acid copper(2+) salt (1:1)	LC 0 (Danio rerio, 48 h): 92.8 mg/l Experimental result, Not specified LC 50 (Rainbow trout, 24 h): 150 µg/l LC 50 (Goldfish, 96 h): 1,380 µg/l LC 50 (Goldfish, 24 h): 4,490 µg/l LC 50 (Green sunfish, 96 h): 3,510 µg/l LC 50 (Green sunfish, 24 h): 4,290 µg/l
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#### **Aquatic Invertebrates**

**Product:**

No data available.

**Components:**

Sulfurous acid, sodium salt (1:1)

EC 100 (Daphnia magna, 48 h): 125 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study  
EC 50 (Daphnia magna, 48 h): 89 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study  
ED 0 (Daphnia magna, 48 h): 62.5 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study

Iron trichloride

EC 50 (Nitokra spinipes, 96 h): 46.4 - 81.2 mg/l Experimental result, Not specified  
EC 50 (Asellus sp., 48 h): 235.7 mg/l Experimental result, Not specified  
EC 50 (Daphnia magna, 48 h): 29.74 mg/l Experimental result, Not specified  
EC 50 (48 h): 29 - 95 mg/l Experimental result, Not specified  
EC 50 (Daphnia magna, 48 h): 9.6 mg/l Experimental result, Supporting study

Sulfuric acid copper(2+) salt (1:1)

LC 50 (Daphnia magna, 48 h): 40 µg/l Read-across based on grouping of substances (category approach), Weight of Evidence study  
LC 50 (Daphnia magna, 48 h): 70 µg/l Read-across based on grouping of substances (category approach), Weight of Evidence study  
EC 50 (Daphnia magna, 48 h): 281 µg/l Experimental result, Weight of Evidence study  
LC 50 (Ceriodaphnia dubia, 48 h): 46.9 µg/l Read-across based on grouping of substances (category approach), Weight of Evidence study  
LC 50 (Ceriodaphnia dubia, 48 h): 14 µg/l Experimental result, Weight of Evidence study

#### **Toxicity to Aquatic Plants**

**Product:**

No data available.

**Components:**

Sulfurous acid, sodium salt (1:1)

No data available.

Iron trichloride

No data available.

Sulfuric acid copper(2+) salt (1:1)

No data available.

#### **Toxicity to microorganisms**

**Product:**

No data available.



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**Components:**

Sulfurous acid, sodium salt (1:1)	No data available.
Iron trichloride	No data available.
Sulfuric acid copper(2+) salt (1:1)	No data available.

**Chronic hazards to the aquatic environment:**

**Fish**

**Product:** No data available.

**Components:**

Sulfurous acid, sodium salt (1:1)	NOAEL (Danio rerio, 34 d): $\geq 316$ mg/l Read-across from supporting substance (structural analogue or surrogate), Key study
Iron trichloride	NOAEL (Pimephales promelas, 33 d): 0.32 mg/l Experimental result, Supporting study NOAEL (Pimephales promelas, 33 d): 1 mg/l Experimental result, Supporting study LOAEL (Pimephales promelas, 33 d): 1 mg/l Experimental result, Supporting study LOAEL (Pimephales promelas, 33 d): 1.6 mg/l Experimental result, Supporting study
Sulfuric acid copper(2+) salt (1:1)	NOAEL (Pimephales promelas, 32 d): 4.8 $\mu$ g/l Experimental result, Weight of Evidence study NOAEL (Pimephales promelas, 330 d): 33 $\mu$ g/l Experimental result, Weight of Evidence study NOAEL (Atherinops affinis, 12 d): 63 $\mu$ g/l Experimental result, Weight of Evidence study NOAEL (Perca fluviatilis, 30 d): 188 $\mu$ g/l Experimental result, Weight of Evidence study NOAEL (Pimephales promelas, 330 d): 14.5 $\mu$ g/l Experimental result, Weight of Evidence study

**Aquatic Invertebrates**

**Product:** No data available.

**Components:**

Sulfurous acid, sodium salt (1:1)	NOAEL (Daphnia magna, 21 d): $> 10$ mg/l Read-across from supporting substance (structural analogue or surrogate), Key study LC 0 (Daphnia magna, 21 d): $> 10$ mg/l Read-across from supporting substance (structural analogue or surrogate), Key study
Iron trichloride	LOAEL (Daphnia pulex, 21 d): 1.3 mg/l Experimental result, Supporting study EC 50 (30 d): 63.8 mg/l Experimental result, Not specified NOAEL (Daphnia pulex, 21 d): 0.7 mg/l Experimental result, Supporting study



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Sulfuric acid copper(2+) salt (1:1)      EC 50 (30 d): 38.4 mg/l Experimental result, Not specified  
EC 50 (Daphnia magna, 21 d): 15.1 mg/l Experimental result, Not specified  
NOAEL (Mytilus edulis, 48 h): 6.2 µg/l Experimental result, Weight of Evidence study  
NOAEL (Daphnia magna, 21 d): 28 µg/l Experimental result, Weight of Evidence study  
EC 50 (Various, 48 h): 14.4 µg/l Experimental result, Weight of Evidence study  
NOAEL (Ceriodaphnia sp., 7 d): 10 µg/l Experimental result, Weight of Evidence study  
LC 50 (E. affinis, 96 h): 71 µg/l Experimental result, Weight of Evidence study

#### **Toxicity to Aquatic Plants**

<b>Product:</b>	No data available.
<b>Components:</b>	
Sulfurous acid, sodium salt (1:1)	No data available.
Iron trichloride	No data available.
Sulfuric acid copper(2+) salt (1:1)	No data available.

#### **Toxicity to microorganisms**

<b>Product:</b>	No data available.
<b>Components:</b>	
Sulfurous acid, sodium salt (1:1)	No data available.
Iron trichloride	No data available.
Sulfuric acid copper(2+) salt (1:1)	No data available.

#### **Persistence and Degradability**

##### **Biodegradation**

<b>Product:</b>	No data available.
<b>Components:</b>	
Sulfurous acid, sodium salt (1:1)	No data available.
Iron trichloride	No data available.
Sulfuric acid copper(2+) salt (1:1)	No data available.

##### **BOD/COD Ratio**

<b>Product:</b>	No data available.
<b>Components:</b>	





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Sulfurous acid, sodium salt (1:1)	No data available.
Iron trichloride	No data available.
Sulfuric acid copper(2+) salt (1:1)	No data available.

## Bioaccumulative potential

### Bioconcentration Factor (BCF)

<b>Product:</b>	No data available.
<b>Components:</b>	
Sulfurous acid, sodium salt (1:1)	No data available.
Iron trichloride	Salmo trutta, Bioconcentration Factor (BCF): 38.2 - 663 Aquatic sediment Experimental result, Supporting study Salmo trutta, Bioconcentration Factor (BCF): 13.5 - 91.7 Aquatic sediment Experimental result, Supporting study Cyprinus carpio, Bioconcentration Factor (BCF): 2 - 2.9 Aquatic sediment Read-across based on grouping of substances (category approach), Key study Cyprinus carpio, Bioconcentration Factor (BCF): <= 20 Aquatic sediment Read-across based on grouping of substances (category approach), Key study Salmo trutta, Bioconcentration Factor (BCF): 0.8 - 3 Aquatic sediment Experimental result, Supporting study
Sulfuric acid copper(2+) salt (1:1)	Eisenia andrei, Bioconcentration Factor (BCF): 0.3 - 1 Terrestrial Experimental result, Weight of Evidence study

### Partition Coefficient n-octanol / water (log Kow)

<b>Product:</b>	Log Kow: No data available.
<b>Components:</b>	
Sulfurous acid, sodium salt (1:1)	No data available.
Iron trichloride	No data available.
Sulfuric acid copper(2+) salt (1:1)	No data available.

## Mobility in soil:

<b>Product</b>	No data available.
<b>Components:</b>	
Sulfurous acid, sodium salt (1:1)	No data available.
Iron trichloride	No data available.



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Sulfuric acid copper(2+) salt (1:1)      No data available.

**Results of PBT and vPvB assessment:**

<b>Product</b>	No data available.
<b>Components:</b>	
Sulfurous acid, sodium salt (1:1)	No data available.
Iron trichloride	No data available.
Sulfuric acid copper(2+) salt (1:1)	No data available.

**Other adverse effects:**

<b>Other hazards</b>	
<b>Product:</b>	No data available.
<b>Components:</b>	
Sulfurous acid, sodium salt (1:1)	No data available.
Iron trichloride	No data available.
Sulfuric acid copper(2+) salt (1:1)	No data available.

<b>13. Disposal considerations</b>
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**General information:**      Dispose of waste and residues in accordance with local authority requirements.

**Disposal methods:**      No specific disposal method required.

**Contaminated Packaging:**      No data available.



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#### 14. Transport information

<b>DOTUN Number:</b>	Not regulated.
UN Proper Shipping Name:	Not regulated.
Transport Hazard Class(es)	
Class:	Not regulated.
Label(s):	Not regulated.
Packing Group:	Not regulated.
Marine Pollutant:	Not regulated.
Limited quantity	Not regulated.
Excepted quantity	Not regulated.
Special precautions for user:	Not regulated.

#### IMDG

UN Number:	Not regulated.
UN Proper Shipping Name:	Not regulated.
Transport Hazard Class(es)	
Class:	Not regulated.
Subsidiary risk:	Not regulated.
EmS No.:	Not regulated.
Packing Group:	Not regulated.
Environmental Hazards	
Marine Pollutant:	Not regulated.
Special precautions for user:	Not regulated.

#### IATA

UN Number:	Not regulated.
Proper Shipping Name:	Not regulated.
Transport Hazard Class(es):	
Class:	Not regulated.
Subsidiary risk:	Not regulated.
Packing Group:	Not regulated.
Environmental Hazards	
Marine pollutant:	Not regulated.
Special precautions for user:	Not regulated.



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## 15. Regulatory information

### US Federal Regulations

#### **TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

None present or none present in regulated quantities.

#### **US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)**

None present or none present in regulated quantities.

#### **US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended**

None present or none present in regulated quantities.

#### **CERCLA Hazardous Substance List (40 CFR 302.4):**

##### **Chemical Identity**

Sulfurous acid, sodium salt (1:1)

Iron trichloride

Sulfuric acid copper(2+) salt (1:1)

#### **Superfund Amendments and Reauthorization Act of 1986 (SARA)**

##### **Hazard categories**

Not classified

#### **US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances**

None present or none present in regulated quantities.

#### **US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required**

None present or none present in regulated quantities.

#### **Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**

None present or none present in regulated quantities.

#### **Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)**

##### **Chemical Identity**

Sulfurous acid, sodium salt (1:1)

Iron trichloride

Sulfuric acid copper(2+) salt (1:1)



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## US State Regulations

### **US. California Proposition 65**

No ingredient requiring a warning under CA Prop 65.

### **US. New Jersey Worker and Community Right-to-Know Act**

No ingredient regulated by NJ Right-to-Know Law present.

### **US. Massachusetts RTK - Substance List**

No ingredient regulated by MA Right-to-Know Law present.

### **US. Pennsylvania RTK - Hazardous Substances**

No ingredient regulated by PA Right-to-Know Law present.

### **US. Rhode Island RTK**

No ingredient regulated by RI Right-to-Know Law present.

## International regulations

### **Montreal protocol**

Not applicable

### **Stockholm convention**

Not applicable

### **Rotterdam convention**

Not applicable

### **Kyoto protocol**

Not applicable

<b>16. Other information, including date of preparation or last revision</b>
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<b>Issue Date:</b>	09/01/2021
<b>Version #:</b>	1.1
<b>Further Information:</b>	No data available.



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