Iron (II) sulfate: sc-228358



MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Iron(II) sulfate
Product Number:	sc-228358
Supplier:	Santa Cruz Biotechnology, Inc.
	2145 Delaware Avenue
	Santa Cruz, CA 95060
	800.457.3801 or 831.457.3800
Emergency:	ChemWatch
	Within the US & Canada: 877-715-9305
	Outside the US & Canada: +800 2436 2255 (1-800-CHEMCALL) or call +613 9573 3112

2. HAZARDS IDENTIFICATION

Emergency Overview OSHA Hazards Target Organ Effect, Toxic by ingestion **Target Organs** Gastrointestinal tract, Liver **GHS Classification** Acute toxicity, Oral (Category 4) GHS Label elements, including precautionary statements Pictogram

Signal word		Warning
Hazard statement(s)		•
H302		Harmful if swallowed.
Precautionary statement	t(s)	
none		
HMIS Classification		
Health hazard:		2
Chronic Health I	Hazard:	*
Flammability:		0
Physical hazard	s:	0
NFPA Rating		
Health hazard:		2
Fire:		0
Reactivity Haza	rd:	0
Potential Health Effects		
Inhalation	May be	harmful if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.	
Eyes	May cau	use eye irritation.
Ingestion	Toxic if	swallowed.
•		

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula: FeSO4 Molecular Weight: 151.91 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
Iron(II)Sulfate			
13463-43-9	231-753-5	-	-

4. FIRST AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area. **If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. **In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIREFIGHTING MEASURES

Conditions of flammability

Not flammable or combustible.

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products

Hazardous decomposition products formed under fire conditions - Sulphur oxides, Iron oxides

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Keep in a dry place. Desiccate at room temperature.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value	Control	Basis		
			parameters			
Iron sulphate hydrate	13463-43-9	TWA	1 mg/m3	USA. ACGIH Threshold Limit Values (TLV)		
		TWA	1 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000		
		TWA	1 mg/m3	USA. ACGIH Threshold Limit Values (TLV)		
Remarks	Upper Respi	Upper Respiratory Tract & skin irritation varies				
		TWA	1 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000		
		TWA	1 mg/m3	USA. NIOSH Recommended Exposure Limits		

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator.For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	solid	pH	no data available
Melting point	3.0 -4.0 at 50 g/l °C	Boiling point	no data available
Flash point	no data available	Ignition temperature	no data available
Lower explosion limit	no data available	Upper explosion limit	no data available
Density	1.898 g/cm3	Water solubility	no data available
Relative vapor density	no data available	Odor	no data available
Odor Threshold	no data available	Vapor pressure	19.5 hPa at 25 °C

10. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions. Possibility of hazardous reactions no data available Conditions to avoid Air, avoid moisture. Materials to avoid Strong oxidizing agents Hazardous decomposition products Hazardous decomposition products formed under fire conditions - Sulphur oxides, Iron oxides Other decomposition products no data available

11. TOXICO	LOGICAL INFORMATION			
Acute toxicity				
Oral L	D50 no data available			
	tion LC50 no data available			
	I LD50 no data available			
Skin corrosion	information on acute toxicity no data available			
no data availab				
	image/eye irritation			
no data availab				
Respiratory or	skin sensitization			
no data availab	le			
Germ cell muta				
no data availab				
Carcinogenicity	-			
IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.			
ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.			
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.			
OSHA:	HA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.			
Reproductive t	oxicity			
no data availab	•			
Teratogenicity				
no data availab				
Specific target organ toxicity - single exposure (Globally Harmonized System)				
no data available				
Specific target organ toxicity - repeated exposure (Globally Harmonized System) no data available				
Aspiration haza				
no data availab				
Potential healt				
Inhala				
Ingest				
Skin Eyes	May be harmful if absorbed through skin. May cause skin irritation. May cause eye irritation.			
Signs and Symptoms of Exposure				
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly				
investigated.				
Synergistic eff				
no data availab				
Additional Info RTECS: no dat				
12. ECOLOG	GICAL INFORMATION			

Toxicity no data available Persistence and degradability no data available **Bioaccumulative potential** no data available Mobility in soil no data available

PBT and vPvB assessment no data available Other adverse effects no data available

13. DISPOSAL CONSIDERATIONS

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US) UN number: 3077 Class: 9 Packing group: III Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (Iron sulphate hydrate) Reportable Quantity (RQ): 1000 lbs Marine pollutant: No Poison Inhalation Hazard: No IMDG Not dangerous goods IATA Not dangerous goods

15. REGULATORY INFORMATION

OSHA Hazards Target Organ Effect, Toxic by ingestion SARA 302 Components SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. SARA 313 Components SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. SARA 311/312 Hazards Acute Health Hazard, Chronic Health Hazard Massachusetts Right To Know Components Iron sulphate CAS-No.13463-43-8 Pennsylvania Right To Know Components Iron sulphate CAS-No.13463-43-8 New Jersey Right To Know Components Iron sulphate CAS-No.13463-43-8 California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.

7/22/2013