

SAFETY DATA SHEET

FERROUS SULFATE HEPTAHYDRATE

SECTION 1: CHEMICAL AND COMPANY IDENTIFICATION

BioShop Canada Inc.
5480 Mainway
Burlington, Ontario L7L 6A4
1-800-234-1179
Emergency Telephone No.: 1-905-466-3832
Chemical Name: Ferrous sulfate heptahydrate
Catalog Number: FER005

SECTION 2 HAZARDS IDENTIFICATION

WHMIS: D2B- Toxic material causing other toxic effects
skin irritant
eye irritant

GHS: Classification:

Acute toxicity, Oral (Category 4)
Skin irritation (Category 2)
Eye irritation (Category 2A)

Pictogram:



Signal word: WARNING

Hazard statement:

H302 Harmful if swallowed
H315 Causes skin irritation
H319 Causes serious eye irritation

Precautionary statement:

P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/ eye protection/ face protection.
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P302 + P352 IF ON SKIN: Wash with plenty of water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/ container to an approved waste disposal plant.

Potential Health Effects

Target Organs: skin, eyes, respiratory system
Eyes: causes eye irritation.
Skin: causes skin irritation.
Inhalation: causes irritation.. May be harmful if inhaled
Ingestion: causes irritation of the digestive. Harmful if swallowed tract.

CHRONIC HEALTH HAZARDS: no information found

SECTION 3 COMPOSITION/ INGREDIENTS

	CAS #	%
Ferrous sulfate : Heptahydrate	7782-63-0	>98%

Molecular Formula: FeSO₄.7H₂O
Molecular Weight: 278.01

SECTION 4 FIRST AID MEASURES

Eyes: Flush eyes with plenty of water for at least 15 minutes. GET MEDICAL AID.
Skin: Flush area immediately with plenty of soap and water while removing contaminated clothing and shoes..
Inhalation: Remove victim to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen . GET MEDICAL ATTENTION.
Ingestion: Wash mouth with water. GET MEDICAL ATTENTION .

SECTION 5 FIRE FIGHTING MEASURES

Flammable: No
Flash Point: N/A
Autoignition Temperature: N/A
Extinguishing Media: Use water spray, foam, dry chemical or carbon dioxide.
Explosion Data: Not available

SECTION 6 ACCIDENTAL RELEASE MEASURES

Ventilate the area. Wear appropriate protective equipment. Sweep and place in a closed container.
Leak and Spill Procedures: Ventilate the area. Wear appropriate protective equipment. Cover with dry lime or soda. Sweep and place in a closed container

SECTION 7 HANDLING AND STORAGE

Handling: Avoid contact. Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse.
Storage Conditions: Room temperature.

SECTION 8 EXPOSURE CONTROLS/PERSONAL

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PROTECTION

Exposure limits: Canada TWA 1mg/m³
Use adequate ventilation. AVOID DUST GENERATION.
Wear appropriate protective equipment to prevent eye and skin exposure.
Wear appropriate respirator to prevent lung irritation.
Personal Protection: Lab coat, safety goggles, rubber gloves.
Ventilation: Local exhaust systems. Use fume hood
Respiratory protection: use OSHA/MSHA approved respirator.

SECTION 14 TRANSPORT INFORMATION

Shipping Information:
NOT REGULATED

SECTION 15 REGULATORY INFORMATION

US : TSCA: not listed
European/International: N/A
Canada: WHMIS: **D2B**

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Crystalline solid
Appearance and Odor: blue-green, odorless
Melting Point: 64° C
Boiling Point: 300° C
Specific Gravity: N/A
Vapor Density: N/A
Water Solubility: yes approx.50g/100g
pH: 5% solution 3-5

SECTION 16 ADDITIONAL INFORMATION

Prepared By: M.Kierdelewicz (President)
Date Prepared: Jan 1/2025
Phone: (800) 234-1179

The information provided on this Material Safety Data Sheet is furnished in good faith and without warranty of any kind. The above information is believed to be correct and should be used only as a guide. BioShop Canada Inc. shall not be held liable for any damage resulting from the handling or from the contact with the above product.
Observe all federal, provincial and state laws concerning health, safety and pollution.

SECTION 10 STABILITY AND REACTIVITY:

Stability: Stable under normal conditions of pressure and temperature.
Hygroscopic
Conditions to avoid: generation of dust.
Incompatibility: Strong oxidizing agents
Hazardous Decomposition Products: iron, sulfur oxides
Hazardous Polymerization: Will not occur

SECTION 11 TOXICOLOGICAL PROPERTIES

Exposure Limits:

LD50 / LC50:
LD50 mouse: 1,520 mg/kg

Epidemiology: No data available
Teratogenicity: No data available
Reproductive Effects: No data available
Neurotoxicity: No data available
Mutagenicity: No data available
Carcinogenicity: Not listed by ACGIH, IARC, NTP, or OSHA

SECTION 12 ECOLOGICAL INFORMATION

No information found.

SECTION 13 DISPOSAL CONSIDERATION

Waste Disposal: Burn in chemical incinerator. Observe all Federal, provincial and local regulations.