

WHMIS	Protective Clothing	TDG/DOT
		

Section 1. Chemical Product and Company Information

PRODUCT NAME	Ferrous Sulphate.
SYNONYM	Iron Sulphate.
CHEMICAL NAME	Ferrous Sulphate.
CHEMICAL FAMILY	Metal salt.
CHEMICAL FORMULA	FeSO ₄
MANUFACTURER /SUPPLIER	SIVACO Ontario Processing 330 Thomas Street PO Box 220 Ingersoll, Ontario, CANADA, N5C 3K5 Telephone: (519) 485-4150

Section 2. Composition and Ingredient Information

<u>Common Name</u>	<u>CAS No.</u>	<u>% by Weight</u>	<u>TLV-TWA (mg/m³)</u>
Ferrous Sulphate	7720-78-7	60-100	1.0 (Fe soluble salts)

Toxicological Data on Ingredients – LD₅₀ ferrous sulphate, 115 mg/kg (mouse, intravenous).

Section 3. Physical and Chemical Properties

PHYSICAL STATE:	Solid
APPEARANCE	Blue green crystals or granules
pH	3.7 (10% solution)
SPECIFIC GRAVITY	1.897 – 3.08 AT 25° C (where water = 1)
NOT APPLICABLE	Freezing Point Boiling Point Odour Threshold Vapour Pressure Vapour Density Evaporation Rate Coefficient of Water/Oil Distribution
OTHER	The product changes to tetrahydrate when temperature reaches 56.6° C, to monohydrate at 65° C and enters the crystallization stage with the evaporation of water after which it gets powdery.

Section 4. Fire and Explosion Data

THIS PRODUCT IS	Non-flammable.
FIRE FIGHTING MEDIA AND INSTRUCTIONS	Material will not burn. Undergoes thermal decomposition at elevated temperatures to release toxic gases. Use extinguishing media suitable for surrounding materials.
HAZARDOUS COMBUSTION	Non-combustible. Flammable/toxic gases will form at elevated temperatures (>300° C) by thermal decomposition (sulphur oxides, SO _x). A self-contained breathing apparatus should be used to avoid inhalation of toxic fumes.
NOT APPLICABLE	Flash Point and Method of Determination Upper Flammable Limit Lower Flammable Limit Auto-Ignition Temperature Explosion Data - Sensitivity of Mechanical Impact Explosion Data - Sensitivity to Static Discharge

Section 5. Stability and Reactivity

CONDITIONS UNDER WHICH THE PRODUCT IS CHEMICALLY UNSTABLE	None – slowly oxidizes in humidity.
INCOMPATIBILITY TO OTHER SUBSTANCES	Yes, avoid alkalis, carbonate solutions, borates, lead acetate, hydrated lime in solution and other incompatible substances. Explosive when in contact of methyl isocynoacetate.
HAZARDOUS DECOMPOSITION PRODUCTS	Not available.

Section 6. Toxicological Properties

SIGNIFICANT ROUTES OF EXPOSURE	Ingestion. Inhalation.
EFFECTS OF ACUTE EXPOSURE TO PRODUCT	Ingestion of this product leads to serious intoxications, irritation of the mucous membrane, gastric and stomach pains, nausea, vomiting, diarrhea, paleness, cyanosis, acidosis, weariness, somnolence, weak and rapid pulse, dehydration, breathing troubles and a possibility of hepatic damages, chemical pneumonia, coma and mortality.
EFFECTS OF CHRONIC EXPOSURE TO PRODUCT	Possible hemochromatosis (iron overdoes in the body) and yellowing of the teeth.
EXPOSURE LIMITS	1.0 mg/m ³ (Time-Weighted Average concentration for soluble salts in Fe).
TARGET ORGAN(S) OR SYSTEM(S)	Liver, blood system and stomach.
IRRITANCY OF PRODUCT	Possible skin and eye irritation.
TOXICOLOGICALLY SYNERGISTIC PRODUCTS	Ingestion of product reduces the bioavailability of levopoda and absorption of tetracycline.
NOT APPLICABLE	Sensitization to Product.
NOT AVAILABLE	Carcinogenicity, Reproductive Toxicity, Teratogenicity, Mutagenicity.

Section 7. Preventive Measures

SPILL PROCEDURES	Recuperate and reuse when possible; if not, refer to governmental requirements.
PROTECTIVE EQUIPMENT	Rubber or neoprene gloves and aprons, safety glasses, a NIOSH-certified filter respirator for dusts, waterproof footgear (if product is in solution).
OTHER PROTECTIVE EQUIPMENT	Emergency shower and eye-wash stations in the handling and storage area.
ENGINEERING CONTROLS	Areas containing ferrous sulphate dust must be adequately ventilated.
HANDLING PROCEDURES OR EQUIPMENT	No special requirements.
WASTE DISPOSAL	Refer to provincial, state, federal and local requirements.
STORAGE REQUIREMENTS	Store in a dry, cool place and seal the containers. Avoid incompatible substances.
SPECIAL SHIPPING INFORMATION	None.

Section 8. First Aid Measures

INHALATION	If the person is suffering from dust inhalation, remove to fresh air. If breathing has stopped, give artificial respiration and seek medical attention.
SKIN	Wash with soap and water.
EYES	In case of contact of dust with the eyes, flush with large amounts of clean water for 15 minutes with eyelids open.
INGESTION	If the person is conscious, induce vomiting. Give large amounts of clean water and call a physician immediately.
OTHER	Not Available.

Section 9. Preparation Information

PREPARED BY	Environmental Health and Safety	
PHONE	1-800-265-0418	
PREPARATION DATE	May 12, 2017	
COMMENTS	None.	
TDG SHIPPING NAME	Ferrous Sulphate	
TDG HAZARD CLASSIFICATION	Primary:	Not required.
	Secondary:	Not required.
WHMIS (Canada)	Status:	Not a controlled product.
	Classifications:	Not a controlled product.
CANADIAN NSNR STATUS	All substances are listed on the DSL (Domestic Substances List).	
NOTICE TO THE READER	<p>The buyer assumes all risk in connection with the use of this product. The buyer assumes all responsibility for ensuring this material is use in a safe manner in compliance with the applicable environmental, health and safety laws, policies and guidelines. SIVACO Ontario Processing assumes no responsibility or liability for the information supplied on this sheet, including any damages or injury caused thereby. SIVACO Ontario Processing does not warrant the fitness of this material for any particular use and assumes no responsibility for injury or damage cause directly or indirectly by or related to the use of the material. The information contained in the sheet is developed from what SIVACO Ontario Processing believes to be accurate and reliable sources, and is based on the opinions and facts available at the time of preparation.</p>	