

SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME	FERRIC SUBSULFATE, USP (Monsel's Solution)	
PRODUCT CODE	1284	
SUPPLIER	MEDISCA Inc. Tel.: 1.800.932.1039 Fax.: 1.855.850.5855 661 Route 3, Unit C, Plattsburgh, NY, 12901 3955 W. Mesa Vista Ave., Unit A-10, Las Vegas, NV, 89118 6641 N. Belt Line Road, Suite 130, Irving, TX, 75063 MEDISCA Pharmaceutique Inc. Tel.: 1.800.665.6334 Fax.: 514.338.1693 4509 Rue Dobrin, St. Laurent, QC, H4R 2L8 21300 Gordon Way, Unit 153/158, Richmond, BC V6W 1M2 MEDISCA Australia PTY LTD Tel.: 1.300.786.392 Fax.: 61.2.9700.9047 Unit 7, Heritage Business Park 5-9 Ricketty Street, Mascot, NSW 2020	
EMERGENCY PHONE	CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 NSW Poisons Information Centre: 131 126	
USES	Styptic agent for topical and vaginal use only.	

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION	Based on availa	Based on available data, the classification criteria are not met.					
PICTOGRAM	Not Applicable						
SIGNAL WORD	Not applicable						
HAZARD STATEMENT(S)	Not applicable						
AUSTRALIA-ONLY HAZARDS	Repeated expos	Repeated exposure may cause skin dryness or cracking.					
PRECAUTIONARY STATEMENT(S)	Prevention	Prevention Not applicable Response Not applicable Storage Not applicable					
	Response						
	Storage						
	Disposal	Not app	plicable				
HMIS CLASSIFICATION	Health Hazard		0	Fla	ammability	0	
	Reactivity		0	Pe	ersonal Protection	E	

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	Basic Ferric Sulfate Solution				
BOTANICAL NAME	Not applicable				
SYNONYM	Ferric Subsulfate Solution				
CHEMICAL FORMULA	Fe4(OH)2(SO4)5				
CAS NUMBER	1310-45-8				
ALTERNATE CAS NUMBER	Not applicable				



 MOLECULAR WEIGHT
 737.704

 COMPOSITION
 CHEMICAL NAME
 CAS NUMBER

COMPOSITION	CHEMICAL NAME	CAS NUMBER	% BY WEIGHT			
	FERRIC SUBSULFATE (Solution)	1310-45-8	100			
	5 1	There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as health hazards and hence require reporting in this section.				
NOTES	Ferrous sulfate oxidised with nitric and s solution.	sulfuric acids yields ferric subsulfate	solution, also known as Monsel's			

SECTION 4: FIRST-AID MEASURES

IN CASE OF EYE CONTACT	Flush with copious amounts of water for 15 minutes, separating eyelids with fingers. If irritation persists seek medical aid.				
IN CASE OF SKIN CONTACT	Wash with soap & water for 15 minutes. If irritation persists seek medical aid.				
IF SWALLOWED	Call a physician. Wash out mouth with water. Do not induce vomiting without medical advice.				
IF INHALED	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician				
SYMPTOMS AND EFFECTS	Not expected to present a significant hazard under anticipated conditions of normal use.				

SECTION 5: FIREFIGHTING MEASURES

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL	Not applicable
FLAMMABLE PROPERTIES	May be combustible at high temperature
HAZARDOUS COMBUSTION PRODUCTS	Under fire conditions, hazardous fumes will be present.
EXTINGUISHING MEDIA	Small fire: dry chemical, CO ₂ or water spray. Large fire: dry chemical, CO ₂ , alcohol resistant foam or water spray. Do not get water inside containers.
PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
METHODS & MATERIAL FOR CONTAINMENT	On land, sweep or shovel into suitable containers.
CLEANUP PROCEDURE	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. Shut off all sources of ignition. Evacuate the area. If necessary, employ water fog to disperse the yapors, Absorb the matter with compatible

SECTION 7: HANDLING AND STORAGE

the affected area. Do not flush into sewerage system or to drains.

vermiculite or other absorbing material. Place in a suitable container and retain for disposal. Ventilate and clean



PRECAUTIONS FOR SAFE HANDLING

STORAGE CONDITIONS

Do not inhale. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling.

Store in original container, tightly sealed container, protected from direct sunlight, in a dry, room temperature and well-ventilated area, away from incompatible materials. Store in accordance with local regulations. Eliminate all ignition sources. Separate from oxidizing materials. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Crystallization may occur if the solution is exposed to temperatures below 22°C. Warming will redissolve the crystals.

Preserve in tight, light-resistant containers at temperatures above 22°C.

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

Chemical Name: FERRIC SUBSULFATE (Solution) CAS #: 1310-45-8

	TWA	Ceiling	STEL	REL	IDLH	Remarks
OSHA PEL	N/L	N/L	-	-	-	-
ACGIH TLV	N/L	N/L	N/L	-	-	-
NIOSH	N/L	N/L	N/L	N/L	N/L	-
AIHA WEEL	N/L	N/L	N/L	-	-	-
Safe Work Australia HSIS	N/L	N/L	N/L	-	-	-
HSE	N/L	N/L	N/L	-	-	-

N/L = Not Listed

EXPOSURE GUIDELINES

Consult local authorities for provincial or state exposure limits. Particulates not otherwise regulated, respirable fraction: 5 mg/m3.

PERSONAL PROTECTIVE EQUIPMENT

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by WHMIS or OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. **Skin:** Wear appropriate gloves to prevent skin exposure. **Clothing:** Wear appropriate protective clothing to minimize contact with skin. **Respirators:** Follow WHMIS or OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

SPECIFIC ENGINEERING CONTROLS NOTES Adequate mechanical ventilation. Fumehood, eye wash station, and safety shower. Portugal TWA: 1 mg/m3

Netherlands MAC: 0.1 Norway TWA: 1 mg/m3 Norway STEL: 3mg/m3

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Liquid							
Reddi	sh brown liquid, odo	orless or nearly so. Is affe	ected by ligh	t.			
Not av	Not available.						
Odorless or nearly so							
May be combustible at high temperature							
	Not available	рН		Not available	М	ELTING POINT	Not available
	Reddi Not av Odorle	Reddish brown liquid, odd Not available. Odorless or nearly so May be combustible at his	Reddish brown liquid, odorless or nearly so. Is affe Not available. Odorless or nearly so May be combustible at high temperature	Reddish brown liquid, odorless or nearly so. Is affected by ligh Not available. Odorless or nearly so May be combustible at high temperature	Reddish brown liquid, odorless or nearly so. Is affected by light. Not available. Odorless or nearly so May be combustible at high temperature	Reddish brown liquid, odorless or nearly so. Is affected by light. Not available. Odorless or nearly so May be combustible at high temperature	Reddish brown liquid, odorless or nearly so. Is affected by light. Not available. Odorless or nearly so May be combustible at high temperature



BOILING POINT	Not available	FREEZING POINT	Not available	FLASH POINT	Not available
SPECIFIC GRAVITY	1.548 (20°C)	EVAPORATION RATE	Not available	EXPLOSIVE LIMIT	Not available
UPPER FLAMMABLE/ EXPLOSIVE LIMIT(S)	Not available	LOWER FLAMMABLE/ EXPLOSIVE LIMIT(S)	Not available	VAPOR PRESSURE	Not available
VAPOR DENSITY (AIR = 1)	Not available	RELATIVE DENSITY (WATER = 1)	Not available	log P (OCTANOL-WATER)	Not available
AUTO-IGNITION TEMPERATURE	Not available	DECOMPOSITION TEMPERATURE	Not available	VISCOSITY	Not available

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY	Not established
STABILITY	Stable under recommended storage conditions
MATERIALS TO AVOID	Strong oxidants
HAZARDOUS DECOMPOSITION PRODUCTS	Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides and other gases may occur
HAZARDOUS POLYMERIZATION	Will not occur
POSSIBLITY OF HAZARDOUS REACTION	Not established
CONDITIONS TO AVOID	Moisture, sunlight and extreme temperatures and temperatures below 22°C.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY	Oral: Rat: LD50: (mg/kg): Not available Dermal: Rabbit: LD50: (mg/kg): Not available Inhalation: Rat: LD50: (mg/L/4hr): Not available					
SKIN CORROSION/IRRITATION	Due to lack of da	Due to lack of data the classification is not possible.				
SERIOUS EYE DAMAGE/EYE	Due to lack of da	Due to lack of data the classification is not possible.				
RESPIRATORY OR SKIN SENSITIZATION	Due to lack of data the classification is not possible.					
GERM CELL MUTAGENICITY	Due to lack of da	ta the classification is not possible.				
CARCINOGENICITY	OSHA FERRIC SUBSULFATE is not listed.					
	NTP	FERRIC SUBSULFATE is not listed.				
	IARC	FERRIC SUBSULFATE is not evaluated.				
	California Proposition 65	This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.				
ADDITIONAL CARCINOGENICITY	Not available					



REPRODUCTIVE TOXICITY	Due to lack of da	ta the classification is not possible.			
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE					
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE					
ASPIRATION HAZARDS					
SIGNS AND SYMPTOMS OF EXPOSURE	Not expected to present a significant hazard under anticipated conditions of normal use. Large doses may lead to iron poisoning and cause abdominal pain, nausea, retching and vomiting, hypermotility, diarrhoea, colic or constipation and black stool. May affect the urinary system/kidneys. May cause liver damage consisting of hemorrhagic necrosis. May affect CNS (somnolence-general depressed activity, seizures, irritability, drowsiness, hyporeflexia, coma), respiration, cardiovascular system (weak pulse, hypotension), metabolism (metabolic acidosis) and blood (leukocytosis). Repeated high exposure may lead to iron build-up in the body causing nausea, vomiting, stomach pain, constipation or diarrhoea, black bowel movements, mild lethargy, irritability, leukocytosis, normocytic anaemia, hemochromatosis in the Kupfer cells of the liver or in the recticuloendothial cells of the bone marrow. Damage may occur to the spleen, lymphatic system, and liver. Fibrosis or other damage may also occur to the pancreas. Symptoms may include hypoglycemia, hyperglycemia. Prolonged eye contact may cause brownish discoloration of eyes.				
POTENTIAL HEALTH EFFECTS	Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.			
	Ingestion	May be harmful if swallowed.			
	Skin	May be harmful if absorbed through skin. May cause skin irritation.			
	Eyes	May cause eye irritation.			

SECTION 12: ECOLOGICAL INFORMATION

ΤΟΧΙΟΙΤΥ	EC50: 48 Hr: Daphnia magna: (mg/L): Not available LC50: 96 Hr: Fish: (mg/L): Not available IC50: 72 Hr: Algae: (mg/L): Not available
PERSISTENCE AND DEGRADABILITY	Inorganic.
BIOACCUMULATIVE POTENTIAL	Not available
MOBILITY IN SOIL	Not available
OTHER ADVERSE EFFECTS	Not available
	This product is not intended to be released into the environment

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL

Dispose of in accordance with federal / local laws and regulations. Avoid release into the environment.

SECTION 14: TRANSPORT INFORMATION

UNITED STATES & CANADA	
UN PROPER SHIPPING NAME	Not dangerous good
UN NUMBER	Not applicable
CLASS	Not applicable
PACKING GROUP	Not applicable



AUSTRALIA		
UN PROPER SHIPPING NAME	Not dangerous good	
UN NUMBER	Not applicable	
CLASS	Not applicable	
PACKING GROUP	Not applicable	
HAZCHEM	Not applicable	
ENVIRONMENTAL HAZARDS	Not available	
SPECIAL SHIPPING INFORMATION	Not applicable	

SECTION 15: REGULATORY INFORMATION

Chemical Name & CAS	CERCLA 40 CFR Part 302.4	SARA (Title III) 40 CFR Part 372.65	EPA 40 CF Appendix A	R Part 355 Appendix B	Pennsylvania	Right-to-know New Jersey	Massachusetts	California Prop 65
FERRIC SUBSULFATE (Solution) 1310-45-8	N/L	N/L	N/L	N/L	N/L	N/L	N/L	N/L

N/L = Not Listed; X = Listed

AUSTRALIAN REGULATIONS

Chemical Name & CAS	Poisons and Therapeutic Goods Regulation	Therapeutic Goods Act	Code of Practices - Illicit Drug Precursors
FERRIC SUBSULFATE (Solution) 1310-45-8	Not Listed	Not Listed	Not Listed

SECTION 16: OTHER INFORMATION

REFERENCES ABBREVIATIONS AND ACRONYMS	Available upon request CAS – Chemical Abstract Service; GHS – Global Harmonized System; OSHA PEL – Occupational Safety & Health Administration Permissible Exposure Limits; TWA – Time Weighted Average; HSIS – Hazardous Substances Information System; STEL – Short Term Exposure Limit; AIHA WEEL – American Industrial Hugiano Association System; STEL – Short Termeuro Lavalue Limit; AIHA WEEL – American Industrial				
	Hygiene Association Workplace Environment Exposure Levels; LD50 – Lethal Dose, 50%; IARC – International Agency for Research on Cancer; NTP – National Toxicology Program; WHMIS – Workplace Hazardous Materials Information System; SARA – Superfund Amendments and Reauthorization Act; EPA – Environmental Protection Agency; CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act; HMIS – Hazardous Materials Information System; NIOSH – National Institute for Occupational Safety and Health; MSHA - Mine Safety and Health Administration; ACGIH - American Conference of Governmental Industrial Hygienists; IDHL - Immediately Dangerous to Health or Life; TLV – Threshold Limit Value; HSE – Health and Safety Executive; REL - Recommended Exposure Limit				
LAST REVISION	12/2015				
SUPERSEDES	08/2013				



DISCLAIMER

This document was created in accordance with OSHA, Safe Work Australia and WHMIS regulations. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. MEDISCA® shall not be held liable for any damage resulting from handling or from contact with the above product. Recipients of the product must take responsibility for observing existing laws and regulations.