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1 Identification · Product identifier · Trade name: Ferric Sulfate, Reagent Grade · Product code: FS7510 · CAS Number: 10028-22-5 · Recommended use and restriction on use · Recommended use: Laboratory chemicals · Restrictions on use: No relevant information available. · Details of the supplier of the Safety Data Sheet · Manufacturer/Supplier: AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 Phone: (717)632-1291 Toll-Free: (866)632-1291 info@aquaphoenixsci.com · Emergency telephone number: ChemTel Inc. (800)255-3924 (North America) +1 (813)248-0585 (International) 2 Hazard(s) identification · Classification of the substance or mixture Met. Corr.1 H290 May be corrosive to metals.

Acute Tox. 4 H302 Harmful if swallowed.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Dam. 1 H318 Causes serious eye damage.

· Label elements

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms:



· Signal word: Danger

· Hazard statements:

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

· Precautionary statements:

P234 Keep only in original container.

- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.

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	(Cont'd. of page 1)
P280	Wear protective gloves and eye protection.
P301+P312	If swallowed: Call a poison center/doctor if you feel unwell.
P330	Rinse mouth.
P302+P352	If on skin: Wash with plenty of water.
P305+P351+P33	8 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P310	Immediately call a poison center/doctor.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P390	Absorb spillage to prevent material damage.
P406	Store in corrosive resistant container with a resistant inner liner.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.
· Other bazarde	There are no other becards not otherwise classified that have been identified

· Other hazards There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description

10028-22-5 diiron tris(sulphate)

4 First-aid measures

Description of first aid measures · After inhalation: Supply fresh air; consult doctor in case of complaints. · After skin contact: Immediately rinse with water. If skin irritation continues, consult a doctor. · After eye contact: Protect unharmed eye. Remove contact lenses if worn. Rinse opened eye for several minutes under running water. Then consult a doctor. · After swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting; immediately call for medical help. · Most important symptoms and effects, both acute and delayed: Irritant to skin and mucous membranes. Strong irritant with the danger of severe eye injury. Gastric or intestinal disorders when ingested. · Danger: Causes serious eye damage. Harmful if swallowed. · Indication of any immediate medical attention and special treatment needed: If medical advice is needed, have product container or label at hand.

5 Fire-fighting measures

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- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · For safety reasons unsuitable extinguishing agents: No relevant information available.
- Special hazards arising from the substance or mixture
 Formation of taxis gauge is peoplified during besting or in gauge
- Formation of toxic gases is possible during heating or in case of fire.
- Advice for firefighters

• **Protective equipment:** Wear self-contained respiratory protective device. Wear fully protective suit.

6 Accidental release measures

• Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation.

Wear protective equipment. Keep unprotected persons away.

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol. Keep away from acids.

• Environmental precautions

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· Methods and material for containment and cleaning up

Send for recovery or disposal in suitable receptacles.

Reference to other sections
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

7 Handling and storage

- · Handling
- Precautions for safe handling: Use only in well ventilated areas.
- · Information about protection against explosions and fires: No special measures required.

· Conditions for safe storage, including any incompatibilities

- Requirements to be met by storerooms and receptacles: Store only in the original receptacle. Unsuitable material for receptacle: aluminium.
- Information about storage in one common storage facility: Store away from foodstuffs.
 Store away from metals.
 Do not store together with acids.
 Further information about storage conditions: Keep containers tightly sealed.
- Protect from humidity and water.
- · Specific end use(s) No relevant information available.

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Control parameters Components with limit values that require monitoring at the workplace:		
REL (USA)	Long-term value: 1 mg/m ³ as Fe	
TLV (USA)	Long-term value: 1 mg/m ³ as Fe	
EL (Canada)	Short-term value: 2 mg/m ³ Long-term value: 1 mg/m ³ as Fe	
LMPE (Mexico)	Long-term value: 1 mg/m ³ como Fe	
• Breathing equi • Protection of h	ontrols: Provide adequate ventilation. ipment: Not required under normal conditions of use. hands: tive gloves	
• Material of glov Nitrile rubber, Ni Neoprene glove Butyl rubber, BR • Eye protection:	IBR २९ २	
Safety g	glasses	
Body protectio	national guidelines concerning the use of protective eyewear. on: Protective work clothing d supervision of exposure into the environment prmation available	
No relevant info		

· Appearance: Form:

Solid

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		(Cont'd. of page
Color:	Not determined.	
Odor:	Characteristic	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Melting point/Melting range:	480 °C (896 °F)	
Boiling point/Boiling range:	Not determined.	
Flash point:	The product is not flammable.	
Flammability (solid, gaseous):	Not applicable.	
Auto-ignition temperature:	Not determined.	
Decomposition temperature:	Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits		
Lower:	Not determined.	
Upper:	Not determined.	
Oxidizing properties:	Non-oxidizing.	
Vapor pressure:	Not determined.	
Density at 20 °C (68 °F):	3.1 g/cm³ (25.87 lbs/gal)	
Relative density:	Not determined.	
Vapor density:	Not determined.	
Evaporation rate:	Not determined.	
Solubility in / Miscibility with		
Water:	Partly miscible.	
Partition coefficient (n-octanol/wat	ter): Not determined.	
Viscosity		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Other information	No relevant information available.	

10 Stability and reactivity

- · Reactivity: No relevant information available.
- · Chemical stability: Stable under normal temperatures and pressures.
- · Thermal decomposition / conditions to be avoided:
- No decomposition if used and stored according to specifications.
- · Possibility of hazardous reactions
- Contact with acids releases toxic gases.
- Reacts with certain metals.
- Toxic fumes may be released if heated above the decomposition point.
- Reacts with strong alkali.
- Reacts with reducing agents.
- \cdot Conditions to avoid No relevant information available.
- · Incompatible materials

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Metals.	
Acids.	
Reducing agents.	
Hazardous decomposition products Under fire conditions only:	
Sulfur oxides (SOx)	
Toxic metal oxide smoke	
I Toxicological information	
· Information on toxicological effects	
Acute toxicity: Harmful if swallowed.	
· LD/LC50 values that are relevant for classification:	
10028-22-5 diiron tris(sulphate)	
Oral LD50 1300 mg/kg (mouse)	
Primary irritant effect:	
• On the skin: Irritant to skin and mucous membranes.	
\cdot On the eye: Strong irritant with the danger of severe eye injury.	
\cdot Sensitization: Based on available data, the classification criteria are not m	net.
IARC (International Agency for Research on Cancer):	
Substance is not listed.	
· NTP (National Toxicology Program):	
Substance is not listed.	
· OSHA-Ca (Occupational Safety & Health Administration):	
Substance is not listed.	
Probable route(s) of exposure:	
Ingestion.	
Inhalation.	
Eye contact. Skin contact.	
• Acute effects (acute toxicity, irritation and corrosivity):	
Causes serious eye damage.	
Irritating to skin.	
Harmful if swallowed.	
• Repeated dose toxicity: No relevant information available.	
· Germ cell mutagenicity: Based on available data, the classification criteri	a are not met.
· Carcinogenicity: Based on available data, the classification criteria are no	
• Reproductive toxicity: Based on available data, the classification criteria	
· STOT-single exposure: Based on available data, the classification criteria	a are not met.
• STOT-repeated exposure: Based on available data, the classification crite • Aspiration hazard: Based on available data, the classification criteria are	

12 Ecological information

· Toxicity

Aquatic toxicity No relevant information available.

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- · Persistence and degradability No relevant information available.
- · Bioaccumulative potential: No relevant information available.
- · Mobility in soil: No relevant information available.

· Additional ecological information

· General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

- · Uncleaned packagings
- · Recommendation: Disposal must be made according to official regulations.

4 Transport information	
· UN-Number · DOT, ADR/RID/ADN, IMDG, IATA	UN3261
 UN proper shipping name DOT 	Corrosive solid, acidic, organic, n.o.s. (diiro tris(sulphate))
· ADR/RID/ADN, IMDG, IATA	CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S (DIIRON TRIS(SULPHATE))
· Transport hazard class(es)	
· DOT	
Construction	
· Class	8
· Label	8
· ADR/RID/ADN	
A A A A A A A A A A A A A A A A A A A	
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		(Cont'd. of page 7)
· Class	8 (C4)	
· Label	8	
· IMDG, IATA		
St. Je		
· Class	8	
· Label	8	
 Packing group DOT, ADR/RID/ADN, IMDG, IATA 	I	
· Environmental hazards	Not applicable.	
· Special precautions for user	Warning: Corrosive substances	
· Danger code (Kemler):	88	
· EMS Number:	F-A,S-B	
· Segregation groups	Acids	
· Transport in bulk according to Annex II	of	
MARPOL73/78 and the IBC Code	Not applicable.	
· Transport/Additional information:		
· DOT		
• Quantity limitations	On passenger aircraft/rail: 5 L	
	On cargo aircraft only: 60 L	

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · United States (USA)
- · SARA
- · Section 302 (extremely hazardous substances):
- Substance is not listed.
- · Section 355 (extremely hazardous substances):
- Substance is not listed.
- · Section 313 (Specific toxic chemical listings):
- Substance is not listed.
- · TSCA (Toxic Substances Control Act)

· Proposition 65 (California)

· Chemicals known to cause cancer:

Substance is not listed.

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Listed

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· Chemicals known	o cause developmental toxicity fo	r females:
Substance is not list	ed.	
· Chemicals known	o cause developmental toxicity fo	r males:
Substance is not list	ed.	
· Chemicals known	o cause developmental toxicity:	
Substance is not list	ed.	
· EPA (Environment	al Protection Agency):	
Substance is not list	ed.	
· IARC (Internationa	Agency for Research on Cancer):	
Substance is not list	ed.	
· Canadian Domesti	: Substances List (DSL): (Substan	ces not listed.)
Substance is listed.		
Other informati	on	
 Abbreviations and ADR: European Agreem IMDG: International Mari DOT: US Department of IATA: International Air T CAS: Chemical Abstract LC50: Lethal concentrati LD50: Lethal dose, 50 pe PBT: Persistant, Bio-acc vPvB: very Persistent an OSHA: Occupational Sa Met. Corr.1: Corrosive to Acute Tox. 4: Acute toxic Skin Irrit. 2: Skin corrosic Eye Dam. 1: Serious eye Sources 	nt concerning the International Carriage of Da ime Code for Dangerous Goods Transportation ansport Association Service (division of the American Chemical S on, 50 percent rcent imulable, Toxic I very Bioaccumulative ety & Health Administration metals – Category 1 ty – Category 4 n/irritation – Category 2 damage/eye irritation – Category 1	angerous Goods by Road
Website, US EPA overview/home.do) Website, Chemical Patty's Industrial Hy Casarett and Doull' 978-0-07-176923-5.	bstracts Registry, American Chemic jiene, 6th ed., Rose, Vernon, ed. ISB	

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