

## MATERIAL SAFETY DATA SHEET

## TRIS(1,10-PHENANTHROLINE)IRON(II) SULFATE, 0.025M AQUEOUS SOLUTION

## Section 1 - Chemical Product and Company Identification

**MSDS Name:** TRIS(1,10-PHENANTHROLINE)IRON(II) SULFATE, 0.025M AQUEOUS SOLUTION**Catalog Numbers:** 42225-0000, 42225-1000**Synonyms:****Company Identification:**Acros Organics BVBA  
Janssen Pharmaceuticaaan 3a  
2440 Geel, Belgium**Company Identification: (USA)**Acros Organics  
One Reagent Lane  
Fair Lawn, NJ 07410**For information in the US, call:**

800-ACROS-01

**For information in Europe, call:**

+32 14 57 52 11

**Emergency Number, Europe:**

+32 14 57 52 99

**Emergency Number US:**

201-796-7100

**CHEMTREC Phone Number, US:**

800-424-9300

**CHEMTREC Phone Number, Europe:**

703-527-3887

## Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
14634-91-4	TRIS(1,10-PHENANTHROLINE)IRON(II) SULFATE	1.7%	238-676-6

**Hazard Symbols:** None listed**Risk Phrases:** None listed

## Section 3 - Hazards Identification

**EMERGENCY OVERVIEW***Not available***Potential Health Effects****Eye:** May cause eye irritation.**Skin:** May cause skin irritation.**Ingestion:** The toxicological properties of this substance have not been fully investigated.**Inhalation:** May cause respiratory tract irritation.**Chronic:**

## Section 4 - First Aid Measures

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.**Skin:** Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

**Ingestion:** Get medical aid. Wash mouth out with water.

**Inhalation:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**Notes to Physician:**

### Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

**Extinguishing Media:** Use extinguishing media most appropriate for the surrounding fire.

### Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container.

### Section 7 - Handling and Storage

**Handling:** Avoid breathing dust, vapor, mist, or gas. Avoid contact with eyes, skin, and clothing.

**Storage:** Store in a cool, dry place. Store in a tightly closed container.

### Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:**

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**Exposure Limits**

CAS# 14634-91-4:

Belgium - TWA: ( iron salts (soluble)): 1 mg/m<sup>3</sup> VLE (as Fe)

Malaysia: ( iron salts (soluble)): 1 mg/m<sup>3</sup> TWA (as Fe)

Netherlands: ( iron salts (soluble)): 1 mg/m<sup>3</sup> MAC (as Fe)

Spain: ( iron salts (soluble)): 1 mg/m<sup>3</sup> VLA-ED (as Fe)

**Personal Protective Equipment**

**Eyes:** Wear chemical splash goggles.

**Skin:** Wear appropriate gloves to prevent skin exposure.

**Clothing:** Wear a chemical apron.

**Respirators:** Follow the 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.

### Section 9 - Physical and Chemical Properties

**Physical State:** Liquid

**Color:** dark red

**Odor:** Not available

**pH:** Not available

**Vapor Pressure:** Not available

**Viscosity:** Not available

**Boiling Point:** Not available

**Freezing/Melting Point:** 0 deg C ( 32.00°F)  
**Autoignition Temperature:** Not available  
**Flash Point:** Not available  
**Explosion Limits: Lower:** Not available  
**Explosion Limits: Upper:** Not available  
**Decomposition Temperature:** Not available  
**Solubility in water:** Not available  
**Specific Gravity/Density:**  
**Molecular Formula:** C36H24FeN6O4S  
**Molecular Weight:** 692.53

### Section 10 - Stability and Reactivity

**Chemical Stability:** Not available  
**Conditions to Avoid:** Not available  
**Incompatibilities with Other Materials:** Not available  
**Hazardous Decomposition Products:** Nitrogen oxides, carbon monoxide, carbon dioxide, sulfur oxides (SOx), including sulfur oxide and sulfur dioxide.  
**Hazardous Polymerization:** Has not been reported.

### Section 11 - Toxicological Information

**RTECS#:** CAS# 14634-91-4: None listed  
**LD50/LC50:** RTECS: Not available.  
**Carcinogenicity:** TRIS(1,10-PHENANTHROLINE)IRON(II) SULFATE - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.  
**Other:** The toxicological properties have not been fully investigated.

### Section 12 - Ecological Information

Not available

### Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

### Section 14 - Transport Information

	<b>IATA</b>	<b>IMO</b>	<b>RID/ADR</b>
<b>Shipping Name:</b>	Not available	Not available	Not available
<b>Hazard Class:</b>			
<b>UN Number:</b>			
<b>Packing Group:</b>			

### Section 15 - Regulatory Information

#### European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 14634-91-4: Not available

Canada

CAS# 14634-91-4 is listed on Canada's DSL List

**US Federal**

TSCA

CAS# 14634-91-4 is listed on the TSCA Inventory.

**Section 16 - Other Information**

**MSDS Creation Date:** 7/16/1996

**Revision #0 Date** Original.

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.*

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