

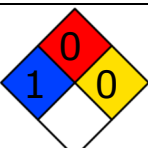


Section 1. Identification of the Substance/Mixture and the Company

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|---|--|---|
| 1.1 Product Identifier | Product Name: Colloidal Iron Stock Solution Product Number: CIS | |
| 1.2 Intended use | EN: Laboratory reagent. For professional use only. DA: Laboratoriereagens. Kun til professionelt brug. DE: Laboratoriumreagens. Alleen voor professioneel gebruik. EL: Αντιδραστήριο εργαστηρίου. Για επαγγελματική χρήση μόνο. ES: Reactivo de laboratorio. Sólo para uso profesional. FR: Réactif de laboratoire. Pour un usage professionnel uniquement. IT: Laboratorio di reagente. Solo per uso professionale. NL: Laboratoriumreagens. Alleen voor professioneel gebruik. PT: Reagente de laboratório. Para uso profissional. SV: Laboratoriereagens. Endast för yrkesmässig användning. | |
| 1.3 Details of the supplier of the safety data sheet | Manufacturer | ScyTek Laboratories, Inc. |
| | Address | 205 South 600 West Logan, Utah 84321 U.S.A. |
| | Phone Number | 800-729-8350 |
| | Fax Number | 435-755-0015 |
| | e-mail | msds@scytek.com |
| | Website | scytek.com |

Section 2. Hazards Identification

| | | |
|---|--|--|
| 2.1 GHS Classification | Skin irritation (Category 2) – H315 Eye irritation (Category 2) – H320 | |
| Classification: Directive 1999/45/EC |  <p> Xi EN: Irritant DA: Lokalirriterende DE: Reizend EL: Ερεθιστικό ES: Irritante FR: Irritant IT: Irritante NL: Irriterend PT: Irritante SV: Irriterande </p> | |
| | For full text of R- & S- phrases: see Section 15. | |




| | | | | | | | | | |
|---------------------------------|--|--------|---|--------------|---|-----------------|---|---------------------|---|
| 2.2 Label Elements | Pictogram(s):  Signal word: Warning Hazard statement(s): H315 – Causes skin irritation H320 – Causes eye irritation Precautionary statement(s): P302+ P352 - IF ON SKIN: Wash with plenty of soap and water P305 + P351 - IF IN EYES: Rinse cautiously with water for several minutes. | | | | | | | | |
| NFPA Scale: 0-4 |  | | | | | | | | |
| HMIS (U.S.A.) Scale: 0-4 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e6f2ff;">HEALTH</td> <td style="text-align: center;">1</td> </tr> <tr> <td style="background-color: #ffe4e1;">FLAMMABILITY</td> <td style="text-align: center;">0</td> </tr> <tr> <td style="background-color: #ffffcc;">PHYSICAL HAZARD</td> <td style="text-align: center;">0</td> </tr> <tr> <td>PERSONAL PROTECTION</td> <td style="text-align: center;">B</td> </tr> </table> | HEALTH | 1 | FLAMMABILITY | 0 | PHYSICAL HAZARD | 0 | PERSONAL PROTECTION | B |
| HEALTH | 1 | | | | | | | | |
| FLAMMABILITY | 0 | | | | | | | | |
| PHYSICAL HAZARD | 0 | | | | | | | | |
| PERSONAL PROTECTION | B | | | | | | | | |
| 2.3 Other Hazards | PBT: This mixture does not contain any substances that are assessed to be a PBT. vPvB: This mixture does not contain any substances that are assessed to be a vPvB. | | | | | | | | |

Section 3. Composition and Information on Ingredients

3.2 Chemical Description: Mixture

*May contain additional non-hazardous proprietary ingredients.

*May contain additional active ingredients at concentrations <0.1%/w/v.

| Hazardous Ingredients: | CAS# | EC# | GHS Symbols | % |
|------------------------|------------|-----------|---|-----|
| Ferric Chloride | 10025-77-1 | 231-729-4 |  Warning. 1. H290 May be corrosive to metals.  Warning. 4 H302 Harmful if swallowed. 2 H315 Causes skin irritation.  Danger. 1 H318 Causes serious eye damage. | ≤ 1 |

Section 4. First Aid Measures

4.1 Description of first aid measures

Eye Contact: Check for and remove contact lenses. Immediately flush eyes with copious amounts of water. Get immediate medical attention if irritation persists.

Skin Contact: Remove contaminated clothing and wash contact area with mild soap and copious amounts of water. Get medical attention if irritation develops.

Inhalation: If inhaled, remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms worsen.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as collar, tie, belt or waistband. Get immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed
See section 2.2 and 11.

4.3 Indication of any immediate medical attention and special treatment needed
No data available

Section 5. Fire Fighting Measures

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| 5.1 Extinguishing Media | Extinguish fire using water spray, carbon dioxide, chemical foam, or dry chemical. |
| 5.2 Special hazards arising from the substance or mixture | No unusual fire or explosion hazards expected. |
| 5.3 Advice for firefighters | As with any fire, wear personal protection equipment, including a self-contained breathing apparatus (S.C.B.A.) |

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear chemical resistant clothing, gloves, and eye protection. Wear NIOSH/MSHA approved breathing apparatus.

6.2 Environmental precautions
Keep material away from heat, flame, ignition sources, and reactive materials. Don't allow product to enter drain.

6.3 Methods and materials for containment and cleaning up
Wipe up or absorb spill using inert absorbent and place in a suitable waste container for disposal.

Section 7. Handling and Storage

7.1 Precautions for safe handling.
Avoid contact with skin and eyes.
Wash thoroughly after handling.
Avoid breathing vapor.

7.2 Conditions for safe storage, including any incompatibilities.
Store in well ventilated area.
Keep container tightly closed.
Store at 15-30 °C.

7.3 Specific end use(s).
See section 1.2

Section 8. Exposure Controls / Personal Protection

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| 8.1 Control parameters | Exposure Limits: Ferric chloride: TWA 1 mg/m ³ STEL 2 mg/m ³ |
| 8.2 Exposure controls | Personal Protective Equipment (PPE): Eye/Face protection. Safety glasses or goggles are required. Skin protection. Protective clothing is required. |

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|-----------------------------|--|
| | <p>Hand protection. Chemical resistant gloves are required. Glove material must be resistant to the components of this product. Consult glove manufacturer for specific recommendations of appropriate material and thickness of glove.</p> <p>Respiratory protection. Avoid breathing vapor.</p> <p>Environmental exposure controls. Avoid releasing large quantities into the environment. No additional information.</p> |
| Engineering Controls | Working area should be adequately large and well ventilated to prevent concentration of vapors. Provide mechanical exhaust ventilation or other engineering controls to keep airborne concentrations of vapors below their respective threshold limits. |

Section 9. Physical and Chemical Properties

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|---|----------------|
| Physical State | Liquid |
| Color | Orange/Brown |
| Odor | Odorless |
| Odor Threshold | Unknown |
| pH | Acidic |
| Melting Point/ Freezing Point | Unknown |
| Initial Boiling Point | Unknown |
| Flash Point | Unknown |
| Evaporation Rate | Unknown |
| Flammability (solid, gas) | Unknown |
| Upper/Lower Flammability Limits | Unknown |
| Vapor Pressure | Unknown |
| Vapor Density | Unknown |
| Relative Density | Unknown |
| Solubility(ies) | Water |
| Partition Coefficient: n-octanol/water | Unknown |
| Auto-Ignition Temperature | Unknown |
| Decomposition Temperature | Unknown |
| Viscosity | Unknown |
| Explosive Properties | Not explosive. |
| Oxidizing Properties | Unknown |

Section 10. Stability and Reactivity

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|--|---|
| 10.1 Reactivity | No relevant data available. |
| 10.2 Chemical Stability | Stable under normal temperatures and pressures. |
| 10.3 Possibility of Hazardous Reactions | No hazardous reactions known. |
| 10.4 Conditions to Avoid | Fire, static electricity, direct sunlight. |
| 10.5 Incompatible Materials | Metals, allyl chloride, sodium, potassium. |
| 10.6 Hazardous Decomposition Materials | Hydrogen Chloride Fumes. |

Section 11. Toxicological Information

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|---|---|
| 11.1 Information on Toxicological Effects. | <p>Acute Toxicity. No relevant data available</p> <p>Skin Corrosion/Irritation. Irritating to skin and mucous membranes.</p> <p>Serious Eye Damage/Irritation. Irritating to eye.</p> <p>Respiratory or skin sensitization. No relevant data available.</p> <p>Germ Cell Mutagenicity. No relevant data available.</p> |
| Carcinogenicity. | <p>International Agency for Research on Cancer (IARC). None of the components are listed.</p> <p>National Toxicology Program (NTP). None of the components are listed.</p> |

Section 12. Ecological Information

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|---|---|
| 12.1 Toxicity | <p>Fish: No relevant studies identified.</p> <p>Crustacea: No relevant studies identified.</p> <p>Algae/Aquatic Plants: No relevant studies identified.</p> <p>Other Organisms: No relevant studies identified.</p> |
| 12.2 Persistence and Degradability. | No relevant studies identified. |
| 12.3 Bioaccumulative Potential. | No relevant studies identified. |
| 12.4 Mobility in Soil. | Miscible in water. May spread in water systems. This component is non-volatile. |
| Additional Remarks | None. |
| 12.5 Results of PBT and vPvB Assessment. | <p>PBT: This mixture does not contain any substances that are assessed to be a PBT.</p> <p>vPvB: This mixture does not contain any substances that are assessed to be a vPvB.</p> |

Section 13. Disposal Considerations

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| 13.1 Waste Disposal Methods. | Sewage disposal is discouraged. Waste should not be disposed of by release to sewers. Dispose waste in accordance with federal, state and local environmental control regulations. |
| Product/Packaging Disposal. | Final decisions on the appropriate waste management method must be in line with local, regional and national regulations. |
| Other Disposal Recommendations. | No relevant data available. |

Section 14. Transport Information

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|---|---|
| 14.1 UN Number DOT, IATA,IMDG, ADR | <p>DOT: Not dangerous goods.</p> <p>ADR/RID: Not dangerous goods.</p> <p>IMDG: Not dangerous goods.</p> <p>IATA: Not dangerous goods.</p> |
| 14.2 UN Proper Shipping Name DOT, IATA,IMDG, ADR | <p>ADR/RID: Not dangerous goods.</p> <p>IMDG: Not dangerous goods.</p> <p>IATA: Not dangerous goods.</p> <p>DOT: Not dangerous goods.</p> |

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|---|--|
| 14.3 Transport Hazard Class(es) | DOT: Not dangerous goods. IATA: Not dangerous goods. IMDG: Not dangerous goods. ADR/RID: Not dangerous goods. |
| 14.4 Packing Group DOT, IATA,IMDG, ADR | ADR/RID: Not dangerous goods. IMDG: Not dangerous goods. IATA: Not dangerous goods. DOT: Not dangerous goods. |
| 14.5 Environmental Hazards | Marine Pollutant: No |
| 14.6 Special Precautions for User | Not applicable. |

Section 15. Regulatory Information

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| 15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture. | |
| Extremely Hazardous Substances; Section 355 | None of the components in this mixture are listed. |
| Toxic Substances Control Act; TSCA | All of the components in this mixture are listed. |
| California Proposition 65 | None of the components in this mixture are listed. |
| Right To Know Components | None of the components in this mixture are listed. |
| 15.2 Chemical Safety Assessment | No Chemical Safety Assessment has been carried out for this substance/mixture by ScyTek Laboratories, Inc. |
| R phrases | R36/38 EN: Irritating to eyes and skin. DA: Irriterer øjnene og huden DE: Reizt die Augen und die Haut. EL: Ερεθίζει τα μάτια και το δέρμα. ES: Irrita los ojos y la piel. FR: Irritant pour les yeux et la peau. IT: Irritante per gli occhi e la pelle. NL: Irriterend voor de ogen en de huid. PT: Irritante para os olhos e pele. SV: Irriterar ögonen och huden. |
| S phrases | S24/25 EN: Avoid contact with skin and eyes. DA: Undgå kontakt med huden og øjnene. DE: Berührung mit den Augen und der Haut vermeiden. EL: Αποφεύγετε επαφή με το δέρμα και τα μάτια. ES: Evítese el contacto con los ojos y la piel. FR: Éviter le contact avec la peau et las yeux. IT: Evitare il contatto con gli occhi e con la pelle. NL: Aanraking met de ogen en de huid vermijden. PT: Evitar o contacto com a pele e os olhos. SV: Undvik kontakt med huden och ögonen |

Section 16. Other Information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. ScyTek Laboratories shall not be held liable for any damage resulting from handling or from contact with the above product.