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## Material Safety Data Sheet

**1. Product Identification**

Product Name : **Iron & TIBC (Ferrozine Method) Kit**  
Catalog Number : IRT 010 / IRT 011 / IRT 012 / IRF 010 / TBC 010

**2. Composition / Information on Hazardous Ingredients**

Chemical Name	CAS #	% W/V	Exposure Limits in Air					
			ACGIH		OSHA		OTHER	
			TLV	STEL	PEL	STEL		

**Reagent 1:** No Hazardous components >1% (0.1% carcinogen)


**Reagent 2:** N/A


**Reagent 3:** N/A


**Reagent 4:** N/A


**Reagent 5:** N/A


**3. Hazard Identification**

**Primary Routes of Entry:**

Inhalation, Ingestion, Skin and / or eye contact.

**Inhalation:**

No adverse health reactions are expected if inhalation occurs during the normal use of this product.

**Ingestion:**

No adverse health reactions are expected if ingestion occurs during the normal use of this product.

**Skin Contact:**

No adverse health reactions are expected if skin contact occurs during the normal use of this product.

**Eye Contact:**

May cause irritation.

**Chronic Exposure:**

N/A

**Medical Conditions Aggravated by Exposure:**

N/A

**Health Effects:**

This product does not present a physical hazard or health hazard under reasonably anticipated circumstances of use or under emergency situations involving a release of only this product. There is no evidence that the ingredient(s) which comprise less than 1 % (0.1% carcinogens) could be released from the mixture in concentrations which would exceed an OSHA PEL or ACGIH TLV, or could present a health risk. Therefore, this material is not defined as a “ Hazardous chemical”.

**4. First Aid Measures**

**Inhalation:**

If breathing becomes difficult, remove victim to fresh air. Seek medical attention immediately.

**Ingestion:**

Get medical attention if there has been ingestion of this product.

**Skin Contact:**

N / A

**Eye Contact:**

Although no adverse health reactions are expected from the normal use of this product. It is recommended flush eyes with water and seek medical advice whenever there has been a potential injury to the eye.

**5. Fire Fighting Measures**

**Flash Point (Method used):** N/A      **Flammable Limits – LEL:** N/A      **UEL:** N/A

**Extinguishing Media:**

Use fire-extinguishing media appropriate for site conditions.

**Special Fire Procedures:**

Structural firefighting gear and self-contained breathing apparatus will provide adequate protection if this product is in a fire area.

**Unusual Fire and Explosion Hazards:**

N/A

**6. Accidental Release Measures**

**Steps to be taken in case material is Released or Spilled:**

Use an absorbent material to contain / pick up the spilled solution. Place all contaminated disposable into a suitable container, seal, label, and hold for disposal.

**7. Handling and Storage**

Store at 2 – 8 °C. Refer to packet insert for additional information on handling and storage procedures.

**8. Exposure Controls and Personal Protection**

**Ventilation Data:**

Supplemental ventilation is not required for the normal use of this product.

**Respiratory Protection:**

Respiratory protection is not required under normal use of this product. If respiratory protection is needed, follow OSHA respirator regulations (29CFR1910.134) and, if necessary, wear a NIOSH approved respirator. Select respirator based on its suitability to provide worker protection for given working conditions, level of airborne concentration, and presence of sufficient oxygen.

**Protective Gloves:**

Although chemical protective gloves are not required under the normal use of this product. It is always good lab protocol to use appropriate protective gloves.

**Other Protective Equipment:**

Use body protection appropriate for task, such as a lab coat. Wear appropriate eye protection to prevent eye contact.

**Other Engineering Controls:**

Eye wash stations and deluge showers.

**Work Practices:**

Good laboratory technique should be used when handling this product. Observe appropriate chemical hygiene. Avoid contact with eyes or skin. Do not place in mouth.

**Hygienic Practices:**

Do not eat, drink, or smoke while working with product. Upon completion of work activities involving this product, wash hands thoroughly with soap and water.

**9. Physical And Chemical Properties**

**For All Components Unless Otherwise Indicated**

Relative Vapour density (air = 1) : N/A	Evaporation rate ( nBuAc = 1): N/A
Specific Gravity (water = 1) : N/A	Freezing / Melting Point : N/A
Solubility in Water : Soluble	Boiling Point : N/A
Vapour Pressure, mm Hg @ 20oC: N/A	pH : N/A

**Odour and Appearance Information**

**Reagent 1:** Clear, colourless liquid.

**Reagent 2:** Yellowish coloured liquid

**Reagent 3:** Clear, colourless liquid

**Reagent 4:** Clear, colourless liquid

**Reagent 5:** NA

**10. Stability and Reactivity**

**Incompatibility ( Materials to Avoid):**

N/A

**Hazardous Decomposition Products:**

N/A

**Will Hazardous Polymerization Occur?**

Hazardous polymerization will not occur.

**Conditions to Avoid / Polymerization:**

N/A

**Is the Product Stable?**

Yes, under normal handling and storage conditions.

**Conditions to Avoid/stability**

N/A

**11. Toxicological Information**

**Toxicity Data:**

N/A

**Reproductive effects:**

N/A

**Target organ Effects:**

N/A

**Carcinogenicity: No**

CHEMICAL NAME	CAS #	% W/V	NTP Carcinogen		IARC	OSHA
			Known	Anticipated		
N/A						

**12. Ecological Information**

**Environmental Fate / Stability:**

N/A

**Effect of Material on plants or animals:**

N/A

**Effect of Chemical on Aquatic Life:**

N/A

**13. Disposal Considerations**

**EPA Waste Number and Proper Waste Disposal Method:**

Please consult local, state and federal regulations for additional guidance on disposal.

**14. Transportation Information**

**Is this Material Hazardous?** Not regulated under transportation regulations.

Proper Shipping Name : N/A	Packing Group: N/A	UN Number: N/A
Hazard Class Number : N/A		

**15. Regulatory Information**

NA.

**16. Other Information**

NA => NOT APPLICABLE or NO INFORMATION