



# Material Safety Data Sheet

## **1. IDENTIFICATION OF PRODUCT AND SUPPLIER**

**Product name:** Direct TIBC  
**Supplier:** ClearChem Diagnostics  
14752 Franklin Ave., Suite D  
Tustin, CA. 92780  
714-7348041/714-7348036(fax)

## **2. CHEMICAL CHARACTERIZATION / INFORMATION ON INGREDIENTS**

Acetic Acid, glacial (CAS # 64-19-7) No other Hazardous Ingredients above reportable limits OSHA PEL 8 H TWA = 10ppm

## **3. HAZARDS IDENTIFICATION**

ROUTE OF ENTRY/EXPOSURE  
SKIN CONTACT: [x] EYE CONTACT: [x] INHALATION: [x]  
INGESTION: [x] SKIN ABSORPTION [x]

Effects of acute exposure:  
SKIN CONTACT: May cause irritation. Avoid exposure to skin.  
EYE CONTACT: May cause irritation.  
INGESTION: May be harmful if ingested.  
INHALATION: Corrosive, May cause irritation to mucous membranes and upper respiratory tract.

Effects of chronic exposure: No data available.  
SENSITIZATION TO PRODUCT: Not Available  
SYNERGISTIC PRODUCTS: Not Available  
LD50: MOPSO: Not Available

## **4. FIRST AID MEASURES**

SKIN: In case of contact, immediately flush area with plenty of water.  
EYES: Immediately flush eyes with plenty of water for at least 15 minutes and get medical attention.  
ORAL: If ingested drink plenty of fluids and contact a physician.  
INHALATION: If inhaled move victim to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen, and call physician.

## **5. FIRE-FIGHTING MEASURES**

Flammable:  
Extinguishing media: As appropriate for fire in surrounding materials.  
Flash point: 104°F / 39°C  
Upper flammable limit: Not Applicable  
Lower flammable limit: Not Applicable  
Autoignition temperature: Not Applicable  
Hazardous combustion products: No data  
Explosion data  
Sensitivity to mechanical impact: Not Applicable  
Sensitivity to static discharge: Not Applicable  
Unusual fire and explosion hazards: Emits Toxic Fumes under fire conditions

## **6. ACCIDENTAL RELEASE MEASURES**

Local exhaust: Not Required  
Protective clothing: Lab Coat  
Protective gloves: Rubber/Latex  
Eye protection: Safety glasses  
Other precautions: Avoid contact and inhalation, do not get in eyes, on skin or clothing. Do not pipet by mouth. Wash contaminated clothing before reuse.  
Respiratory protection: None normally required.  
Leak and spill procedure: Absorb small leaks or spills with sponge, mop up large spills with plenty of soap and water.

## **7. HANDLING AND STORAGE**

Handling: Normal precautions for handling chemicals must be observed.  
Storage: Store between +2°C and +8°C  
Shipping regulations: Not regulated

## **8. EXPOSURE CONTROLS / PERSONNEL PROTECTION**

See 6.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state: Reagent is Provided in a liquid form.  
Appearance and odor: The R1 reagent is a dark purple aqueous solution. The R2 is a clear liquid.  
Odor threshold: The R1 has a Vinegar-like odor. The R2 is odorless  
Vapor pressure: 11.4 mm at 20°C



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Vapor density: 2.07  
Specific gravity: 1.049  
Evaporation rate: Not Available  
Melting point: 16.2°C  
Boiling point: 117-118°C  
Solubility in water: Soluble  
pH: Reagent = n/a  
Coefficient of oil/water distribution: Not Available

## **10. STABILITY AND REACTIVITY**

Stable: Yes  
Hazardous polymerization: Will not occur.  
Incompatibility with other substances: Not Available  
Hazardous decomposition products: Not Available

## **11. TOXICOLOGICAL INFORMATION**

See 3.

## **12. ECOLOGICAL INFORMATION**

Water Hazard Class: Data not yet available.

## **13. DISPOSAL CONSIDERATIONS**

Waste disposal: Dilute with large volumes of water and dispose of into sewer system, in accordance with local regulations.

## **14. TRANSPORT INFORMATION**

Shipping information: Not regulated

## **15. REGULATORY INFORMATION**

Not applicable.

## **16. OTHER INFORMATION**

The information herein is believed to be correct as of the date hereof but is provided without warranty of any kind. The recipient of our products is responsible for observing any laws and guidelines applicable