

# Material Safety Data Sheet

## COPPER – Single Reagent

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Copper – Single Reagent

**Catalog Numbers:** 232 001, 232 002

**Use:** This reagent is intended for the in-vitro quantitative, diagnostic estimation of Copper in human serum, plasma or Urine.

#### Contact Point

##### Egypt

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### 2. HAZARD IDENTIFICATION

Not classified as hazardous according to the EU criteria

**Hazard Classification:** NON-HAZARDOUS SUBSTANCE, NON DANGEROUS GOODS.

**Hazard Category:** None allocated.

**RISK PHRASES:** None allocated.

**SAFETY PHRASES:** None allocated.

**Poison Schedule:** None allocated.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

**SUBSTANCE NAME**

**Proportion**

**CAS Number**

All ingredients determined not to be hazardous according to the EU criteria.

#### 4.FIRST AID MEASURES

**Swallowed:** If swallowed, **DO NOT induce vomiting**. If victim is conscious give glass of water to drink. Immediately transport to hospital or doctor.

**Eye:** If product enters the eyes, immediately, flush with plenty of water for 15 minutes, ensuring eye lids are held open. Immediately transport to hospital or doctor.

**Skin:** If product contacts the skin, remove any contaminated clothing and wash skin thoroughly with soap and water. If irritation persists transport to hospital or doctor.

**Inhaled:** Remove victim to fresh air. Apply resuscitation if victim is not breathing.

**First Aid Facilities:** Eye wash fountain, safety shower and normal wash room facilities.

**Advice to Doctor:** Treat symptomatically.

#### 5.FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media:** Use extinguishing media suitable for surrounding fire situation.

**Hazards from Combustion Products:** Decomposes on heating emitting noxious smoke.

**Precautions for Fire Fighters and Special Protective Equipment:** If safe to do so, move undamaged containers from fire area. Fire fighters to wear Self-contained breathing apparatus (SCBA) in confined spaces, in oxygen deficient atmospheres or if exposed to products of decomposition. Full protective clothing is also recommended.

**Hazchem Code:** None allocated.

**Flammability:** This material is not a combustible or flammable liquid.

#### 6.ACCIDENTAL RELEASE MEASURES

##### **Emergency Procedures:**

Keep unnecessary people away; Isolate hazard area and deny entry. If product spills onto floors it will represent a slip hazard, walk cautiously. Wear protective equipment to prevent skin and eye contact, as outlined under personal protection in this MSDS.

##### **Methods and Materials for Containment and Clean Up Procedures:**

Dike area using with an absorbent such as diatomaceous earth - to prevent run off into drains and waterways. Throw further absorbent (diatomaceous earth or other inert material) on top of spill. Use non sparking shovel and collect and seal in properly labeled containers for disposal. Remainder of material may be neutralized by cautiously adding vinegar.

Collect this material after foaming/effervescence ceases and place into above labeled container.

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Avoid contact with skin and eyes.

### Conditions for Safe Storage

Store in a cool place and out of direct sunlight. Store away from sources of heat or ignition. Store away from strong acids, aluminum, zinc and magnesium. Store at 2-25°C and the reagent will be stable until the expiry date stated on the bottle and kit box labels, Only the standard is needed to be kept refrigerated at (2 - 8°C). Keep containers tightly closed, when not using the product, Store in original packaging as approved by manufacturer.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Standards

No exposure standards have been assigned by (NOHSC) for this product

### Engineering Controls

Maintain adequate ventilation at all times. In most circumstances natural ventilation systems are adequate unless the material is heated, reacted or otherwise changed in some type of chemical reaction, then the use of a local exhaust ventilation system is recommended.

### Personal Protection Equipment

**Gloves:** Not normally required, however, if product has spilt, or package is broken, then the use of PVC or neoprene Gloves are recommended.

**Eyes:** Chemical glasses or face shield to protect eyes.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

	Reagent 1
Appearance	Purple
Solubility in water	Completely miscible.

### Other properties

pH	5.0
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## 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable under normal conditions of use.

**Conditions to Avoid:** Incompatibles, especially reaction with zinc, aluminium or magnesium, which may release flammable hydrogen gas which could be ignited by heat, flames, ignition sources and lead to an explosion.

**Incompatible Materials:** Strong mineral acids (sulfuric, nitric and hydrochloric), aluminium, zinc and magnesium.

**Hazardous Decomposition Products:** Decomposes on heating emitting noxious smoke.

**Hazardous Reactions:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

### Acute Health Effects:

**Swallowed:** Will cause burns to the mouth, mucous membranes, throat, oesophagus and stomach. If sufficient quantities (approximately 150 ml) are ingested (swallowed) death may occur.

**Eye:** Will cause burns to the eyes with effects including: pain, tearing, conjunctivitis, corneal ulcerations and if duration of exposure is long enough, blindness will occur.

**Skin:** Will cause burns to the skin, with effects including; redness, blistering, localized pain and inflammation.

**Inhaled:** Will cause irritation to the nose, throat and respiratory system with effects including: dizziness, headache, coughing, and loss of co-ordination and chest pains.

**Chronic:** Prolonged or repeated skin contact will lead to necrosis (death) of the skin.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** No information for product.

**Mobility:** No information for product.

**Persistence / Degradability:** No information for product.

**Chemical Fate Information:** No information available.

## 13. DISPOSAL CONSIDERATIONS

Refer to appropriate authority in your State. Normally suitable for disposal by approved waste disposal agent.

## 14. TRANSPORT INFORMATION

**UN Number:** None allocated

**Proper Shipping Name:** None allocated

**Dangerous Goods Class:** None allocated

**Subsidiary risk:** None allocated

**Packing Group:** None allocated

**Road and Rail Transport:**

Not classified as a Dangerous Good according to the United Nations Recommendations for the Transport of Dangerous Goods and Globally Harmonized System for the classification and labeling of Chemicals.

**Air Transport:**

Not classified as a Dangerous Good according to the International Civil Aviation Organization (ICAO) and International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

**Marine Transport:**

Not classified as a Dangerous Good according to the International Maritime Organization Rules (Maritime Dangerous Goods Code - IMDG Code) for transport by sea.

## 15.OTHER INFORMATION

**Principal References**

Information supplied by manufacturer, reference sources including the public domain.

**Disclaimer**

This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

Our responsibility for products sold is subject to our standard terms and conditions which are available on request.

**END OF MSDS**



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