

# MATERIAL SAFETY DATA SHEET

## THE SERUM ALANINE AMINOTRANSFERASE REAGENT KIT R-1

### 1. IDENTIFICATION OF PRODUCT AND SUPPLI

**Product name:** The Serum Alanine Aminotransferase Reagent Kit R-1  
**Supplier:** Cleantek Inc.  
Rm.804,Sino Centre,582-592 Nathan Rd.,Mongkok,Kln.,HongKong  
Tel:852-23840332 Fax:852-27717211

### 2. CHEMICAL CHARACTERISATION / INFORMATION ON INGREDIENTS

Tris buffer, pH7.15	60 mmol/L
NADH	0.18 mmol/L
L-alanine	500 mmol/L
Lactate dehydrogenase	600 U/L

### 3. HAZARDS IDENTIFICATION

ROUTE OF ENTRY/EXPOSURE	<b>SKIN CONTACT:</b> [x] <b>EYE CONTACT:</b> [x] <b>INGESTION:</b> [x] <b>INHALATION:</b> [x]
Effects of acute exposure:	<b>SKIN CONTACT:</b> May cause irritation. <b>EYE CONTACT:</b> May cause irritation. <b>INGESTION:</b> May be harmful if ingested. <b>INHALATION:</b> 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:	Not Available
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:** NO  
**Extinguishing media:** As appropriate for fire in surrounding materials.  
**Flash point:** Not Applicable  
**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:** No Data

### 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 at room temperature.  
**Shipping regulations:** Not regulated

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

See 6.

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

**Physical state:** Reagents are provided as stable liquids.  
**Appearance and odor:** Picric acid in yellow in color. Sodium hydroxide reagent is clear and colorless.  
**Odor threshold:** Not Available  
**Vapor pressure:** Not Available  
**Vapor density:** Not Available  
**Specific gravity:** Not Available  
**Evaporation rate:** Not Available  
**Melting point:** Not Available  
**Boiling point:** Not Available  
**Solubility in water:** Not Applicable  
**pH:** Reagent = 12.75  
**Coefficient of oil/water distribution:** Not Available

## **10. STABILITY AND REACTIVITY**

**Stable:** Yes  
**Hazardous polymerization:** Will not occur.  
**Incompatibility with other substances:** Picric Acid can become explosive upon drying or evaporation.

**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.

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