



## MATERIAL SAFETY DATA SHEET

### **SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME: TRIS [TRIS(HYDROXYMETHYL) AMINOMETHANE]; Tromethamine  
COMMON NAME: TRIS  
RPI CATALOG #: T60040  
SUPPLIER'S NAME: Research Products International Corp.  
SUPPLIERS ADDRESS: 410 N Business Center Drive  
Mount Prospect, IL 60056  
EMERGENCY CONTACT: 1-800-424-9300  
OTHER INFORMATION: 847-635-7330

### **SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS**

CAS #: 77-86-1  
Molecular Formula:  $C_4H_{11}NO_3$   
Molecular Weight: 121.1

### **SECTION 3 - HAZARDS IDENTIFICATION**

Label precautionary statements: Irritating to eyes, respiratory system and skin. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing. Caution: avoid contact and inhalation.

### **SECTION 4 - FIRST-AID MEASURES**

If swallowed, wash out mouth with water provided person is conscious. Call a physician. If inhaled, remove to fresh air. If breathing becomes difficult, call a physician. In case of contact, immediately wash skin with soap and copious amounts of water. In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician. In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

### **SECTION 5 - FIRE FIGHTING MEASURES**

Extinguishing media: water spray, carbon dioxide, dry chemical powder or appropriate foam.

Special fire fighting procedures: wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual fire and explosions hazards: emits toxic fumes under fire conditions.

### **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves. Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

### **SECTION 7 - HANDLING AND STORAGE**

Refer to section 8.

## **SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

Safety shower and eye bath. Mechanical exhaust required. Wash thoroughly after handling. Avoid inhalation. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. NIOSH/MSHA-approved respirator. Compatible chemical-resistant gloves. Chemical safety goggles. Keep tightly closed. Store at -20° C. Store in the dark.

## **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance and odor: solid.

Physical properties:

Melting Point: 150- 152°C

## **SECTION 10 - STABILITY AND REACTIVITY**

Stability: stable.

Incompatibilities: heavy metals, salts, rubber, oxygen, oxidizing agents.

Hazardous combustion or decomposition products: carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides.

Hazardous polymerization: will not occur.

## **SECTION 11 - TOXICOLOGICAL INFORMATION**

Acute effects causes skin irritation. May be harmful if absorbed through the skin. Causes eye irritation. May be harmful if inhaled. Material is irritating to mucous membranes and upper respiratory tract. May be harmful if swallowed. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## **SECTION 12 - ECOLOGICAL INFORMATION**

Data not yet available.

## **SECTION 13 - DISPOSAL CONSIDERATIONS**

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.

## **SECTION 14 - TRANSPORT INFORMATION**

Non-regulated.

## **SECTION 15 - REGULATORY INFORMATION**

European information: Irritant. R36/37/38, Irritating to eyes, respiratory system and skin. S 26, In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S 36, wear suitable protective clothing.

## **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. Research Products International Corp shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.