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# MATERIAL SAFETY DATA SHEET

## Tricine

NPFA	HMIS	Personal Protective Equipment											
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HEALTH	1												
FLAMMABILITY	1												
REACTIVITY	0												
PPE	F												

*In Case of Emergency: Call ChemTrac (24 hr): 800-424-9300, 703-527-3887 Call (330)425-2522*

### 1. Product Identification

Product Name: Tricine  
Catalog Codes: 20-236  
CAS#: 5704-04-1  
RTECS: Not available.  
TSCA: TSCA 8(b) inventory: Tricine  
CI#: Not available.  
Synonym: N-Tris(hydroxymethyl) Methyl Glycine  
Chemical Name: Not available.  
Chemical Formula: C<sub>6</sub>H<sub>13</sub>NO<sub>5</sub>

### 2. Composition/Information on Ingredients

Ingredient	CAS No	% by Weight
Tricine	5704-04-1	100

### 3. Hazards Identification

Potential Acute Health Effects:  
Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation.  
Potential Chronic Health Effects:  
Hazardous in case of ingestion.  
Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation.  
CARCINOGENIC EFFECTS: Not available.  
MUTAGENIC EFFECTS: Not available.  
TERATOGENIC EFFECTS: Not available.  
DEVELOPMENTAL TOXICITY: Not available.

### 4. First Aid Measures

Eye Contact: No known effect on eye contact, rinse with water for a few minutes.  
Skin Contact:  
After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin.  
Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.  
Serious Skin Contact: Not available.

Inhalation: Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Serious Inhalation: Not available.

Ingestion:

Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Serious Ingestion: Not available.

## **5. Fire Fighting Measures**

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: Not available.

Flash Points: Not available.

Flammable Limits: Not available.

Products of Combustion: These products are carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides (NO, NO<sub>2</sub>...).

Fire Hazards in Presence of Various Substances: Not available.

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available.

Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

## **6. Accidental Release Measures**

Small Spill:

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

## **7. Handling and Storage**

Precautions:

Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk; evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe dust.

Storage:

Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

## **8. Exposure Controls/Personal Protection**

Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection: Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent.

Gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product.

Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available.

## **9. Physical and Chemical Properties**

Physical state and appearance: Solid.

Odor: Not available.

Taste: Not available.

Molecular Weight: 179.17 g/mole

Color: Not available.

pH (1% soln/water): Not available.

Boiling Point: Decomposes.

Melting Point: 187°C (368.6°F)

Critical Temperature: Not available.

Specific Gravity: Not available.

Vapor Pressure: Not applicable.

Vapor Density: Not available.

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.  
Ionicity (in Water): Not available.  
Dispersion Properties: Not available.  
Solubility: Not available.

## 10. Stability and Reactivity

Stability: The product is stable.  
Instability Temperature: Not available.  
Conditions of Instability: Not available.  
Incompatibility with various substances: Not available.  
Corrosivity: Non-corrosive in presence of glass.  
Special Remarks on Reactivity: Not available.  
Special Remarks on Corrosivity: Not available.  
Polymerization: No.

## 11. Toxicological Information

Routes of Entry: Ingestion.  
Toxicity to Animals:  
LD50: Not available.  
LC50: Not available.  
Chronic Effects on Humans: Not available.  
Other Toxic Effects on Humans:  
Hazardous in case of ingestion.  
Slightly hazardous in case of skin contact (irritant), of inhalation.  
Special Remarks on Toxicity to Animals: Not available.  
Special Remarks on Chronic Effects on Humans: Not available.  
Special Remarks on other Toxic Effects on Humans: Not available.

## 12. Ecological Information

Ecotoxicity: Not available.  
BOD5 and COD: Not available.  
Products of Biodegradation:  
Possibly hazardous short term degradation products are not likely. However, arise.  
Toxicity of the Products of Biodegradation: The products of degradation  
Special Remarks on the Products of Biodegradation: Not available.

## 13. Disposal Considerations

Waste Disposal.

## 14. Transport Information

DOT Classification: Not a DOT controlled material (United States).  
Identification: Not applicable.  
Special Provisions for Transport: Not applicable.

## 15. Regulatory Information

Federal and State Regulations: TSCA 8(b) inventory: Tricine  
Other Regulations: Not available..  
Other Classifications:  
WHMIS (Canada): Not controlled under WHMIS (Canada).  
DSCG (EEC):  
This product is not classified according to the EU regulations.  
HMIS (U.S.A.):  
Health Hazard: 1  
Fire Hazard: 1  
Reactivity: 0  
Personal Protection: E  
National Fire Protection Association (U.S.A.):  
Health: 1  
Flammability: 1  
Reactivity: 0  
Specific hazard:  
Protective Equipment:  
Gloves.

Lab coat.  
Dust respirator. Be sure to use an approved/certified respirator or equivalent.  
Safety glasses.

## 16. Other Information

References: Not available.  
Other Special Considerations: Not available.

*Status: Accepted*

*Reviewed By: Brady Chung*

*Review Date: 7/23/2009*

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### **DISCLAIMER:**

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