

MATERIAL SAFETY DATA SHEET



Conforms to 93/112/EC and ISO 11014-1

1. Chemical Product and Company Identification

Product Name: Tricine

Product Number: EC-407

Chemical Names/

Description:

N- (tri (hydroxymethyl) methyl) glycine

Manufacturer

National Diagnostics
305 Patton Drive
Atlanta, GA 30336

Telephone Numbers

(800) 526-3867
(404) 699-2121

Emergency Numbers

Chemtrec

(800) 424-9300 (U.S. & Canada)
01-703-527-3887 (outside U.S. & Canada)

2. Composition/Information on Ingredients

Component	% Comp.	CAS #	EINECS #	TLV (Units)
Tricine	99	5704-04-1	227-193-6	none available

3. Hazards Identification

Appearance and Odor

White powder.

EMERGENCY OVERVIEW - IMMEDIATE HAZARD

THE TOXICOLOGICAL PROPERTIES OF THIS MATERIAL HAVE NOT BEEN FULLY INVESTIGATED. MAY BE HARMFUL BY INHALATION, INGESTION/SKIN ABSORPTION.

EMERGENCY OVERVIEW - CHRONIC HAZARD WARNING:

No information available.

Potential Health Effects

Inhalation

May cause respiratory tract irritation.

Ingestion

May be harmful by ingestion.

Skin

May cause skin irritation.

Eyes

May cause eye irritation.

Signs and Symptoms of Overexposure**Inhalation**

No information found.

Ingestion

No information found.

Skin

No information found.

Eyes

No information found.

Carcinogenicity

Not listed as a known or anticipated human carcinogen by NTP or IARC.

Mutagenicity

No information found.

Reproductive Toxicity

No information found.

Teratogenic Effects

No information found.

Routes of Entry

Inhalation, ingestion, skin absorption.

Target Organ Statement

No information found.

4. First Aid Measures**Inhalation**

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Ingestion

DO NOT INDUCE VOMITING. If swallowed and the person is conscious, immediately give large amounts of water. Get medical attention.

Skin

Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eyes

Immediately flush eyes with plenty of water for at least fifteen minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

5. Fire Fighting Measures

Flash Point	Not Available	Flammable Limits	Not Available
Flash Point Method	Not Available	Autoignition temperature	Not Available

Extinguishing media

Water spray, dry chemical, alcohol-resistant foam, or carbon dioxide.

Protective Equipment

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

Hazardous Combustion Products

Thermal decomposition products may include toxic oxides of nitrogen and carbon.

Unusual Fire and Explosion Hazards

N.A.

NFPA Codes: Health Flammability Reactivity

6. Accidental Release Measures

Steps to be taken in case material is released or spilled

Sweep up, then place into a suitable container for disposal.

Waste Disposal Method

Disposal must be made in accordance with applicable federal, state, and local regulations.

Personal Precautions

Wear appropriate protective equipment as specified in section 8.

7. Handling and Storage

Handling

Avoid contact and inhalation. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling.

Storage

Keep in a tightly closed container, stored in a cooled, dry, ventilated area.

Storage Temperature

Room Temperature

Disposal

Observe all national, state, and local regulations regarding disposal.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits

Component: Tricine

ACGIH Threshold Limit Value (TLV): none available

OSHA Permissible Exposure Limit (PEL): none available

Engineering Controls

A system of local and/or general exhaust is recommended to keep employee exposures low. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source.

Respiratory Protection

For conditions of use where exposure to the dust or mist is apparent, a full-face dust/mist respirator may be worn. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator.

Eye Protection

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

Skin Protection

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as

appropriate, to prevent skin contact.

Other Control Measures

There is insufficient data in the published literature to assign complete numerical safety ratings and laboratory protective equipment for this product. Special precautions must be used in storage, use and handling.

9. Physical Properties

Boiling point	Not available	Evaporation Rate	Not available
Melting point	182 - 184 C	Solubility in water	soluble
Vapor pressure (mmHg)	Negligible	pH	Not available
Vapor density (Air = 1)	Not available	Specific gravity (H2O = 1)	Not available
% volatile by volume	0		

10. Stability and Reactivity

Stability

Stable under normal temperatures and pressures.

Conditions to Avoid

Incompatibles

Hazardous Decomposition Products

Nitrogen oxides, carbon monoxide, carbon dioxide, nitrogen.

Hazardous Polymerization

Will not occur

Incompatibles

Tricine:

Strong oxidizing agents.

11. Toxicological Information

Product LD50 Values

Tricine	Oral Rat LD50 (mg/kg):	No Data
Tricine	Dermal Rabbit LD50 (mg/kg):	No Data

Component Cancer List Status

	NTP Carcinogen		IARC Category
	Known	Anticipated	
Tricine	No	No	None

12. Ecological Information

Tricine

No information available.

13. Disposal Considerations

Observe all national, state, and local regulations regarding disposal.

14. Transport Information

D.O.T.

Proper Shipping Name: Not Regulated

Hazard Class: N.A.

UN Number: N.A.

Packing Group: N.A.

I.A.T.A.

Proper Shipping Name: Not Regulated

Hazard Class: N.A.

UN Number: N.A.

Packing Group: N.A.

I.M.O.

Proper Shipping Name: Not Regulated

Hazard Class: N.A.

UN Number: N.A.

Packing Group: N.A.

15. Regulatory Information

United States

TSCA Regulatory Statement

All intentional ingredients are listed on the TSCA Inventory.

SARA 311/312 Hazard Categories

Component	Fire	Pressure	Reactivity	Acute	Chronic
Tricine	N.D	N.D	N.D	N.D.	N.D

Europe

EEC Regulatory

All intentional ingredients are listed on the European EINECS Inventory.

16. Other Information

NFPA Codes: **Health** **Flammability** **Reactivity**

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