# SAFETY DATA SHEET

national diagnostics

Conforms to regulation (EC) no. EU 453/2010

#### SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product Identifier

Product Name: Tricine Product Number: EC-407

#### 1.2 Relevant Identified Uses of the Substance/Mixture and Uses Advised Against

Investigational research by professional users

# 1.3 Details of the Supplier of the Safety Data Sheet

#### Manufacturer

National Diagnostics 305 Patton Drive Atlanta, GA 30036 (404) 699-2121 (800) 526-3867 info@nationaldiagnostics.com

# 1.4 Emergency Telephone Number

#### ChemTel Inc.

Contract number MIS8894340
1-800 255-3924 (United States, Canada, Puerto Rico & US Virgin Islands)
01-800-099-0731 (Mexico)
400-120-0751 (China)
000-800-100-4086 (India)
1-300-954-583 (Australia)
0-800-591-6042 (Brazil)
+1-813-255-3924 (All other regions)

#### **SECTION 2 - HAZARDS IDENTIFICATION**

#### 2.1 Classification of the Substance or Mixture

Not a hazardous substance or mixture according to regulation (EC) No. 1272/2008.

#### 2.2 Label Elements

This product has no labeling elements associated with EC directives or respective national laws.

#### 2.3 Other Hazards

None found.

# **SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS**

# 3.1 Substance

### **Chemical Names/Description**

N- (tri (hydroxymethyl) methyl) glycine

# **Chemical Formula**

 $C_6H_{13}NO_5$ 

# **Component List**

Component	% Comp.	CAS#	EC#
Tricine	99	5704-04-1	227-193-6

# **SECTION 4 - FIRST AID MEASURES**

# 4.1 Description of 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.

#### Skir

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.

#### 4.2 Most Important Symptoms and Effects, Both Acute and Delayed

#### Inhalation

No information found.

#### Ingestion

No information found.

#### Skin

No information found.

#### **Eyes**

No information found.

#### 4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

Unknown/not applicable

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

## 5.1 Extinguishing media

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

# 5.2 Special Hazards Arising from the Substance/Mixture

#### **Hazardous Combustion Products**

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

#### **Hazardous Decomposition Products**

Nitrogen oxides, carbon monoxide, carbon dioxide, nitrogen.

#### **Hazardous Polymerization**

Will not occur under normal conditions of use (See Sections 10.4 & 10.5).

#### 5.3 Advice for Firefighters

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.

# 5.4 Further Information

No data available.

# **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

#### 6.1 Personal Precautions

Wear appropriate protective equipment as specified in Section 8.

#### **6.2 Environmental Precautions**

Prevent discharge into the environment. Dike spills and stop leakage where practical. Do not allow material to enter drains.

#### 6.3 Methods and Materials for Containment and Cleaning Up

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

# 6.4 References to Other Sections

For disposal information, see Section 13. For protective clothing and equipment, see Section 8.

# **SECTION 7 - HANDLING AND STORAGE**

#### 7.1 Precautions for Safe Handling

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

#### 7.2 Conditions for Safe Storage (including any incompatibles)

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

# Incompatibles

Strong oxidizing agents.

#### 7.3 Specific End Uses

Investigational research by professional users

#### SECTION 8 - EXPOSURE CONTROLS/PERSONAL PRECAUTIONS

# **8.1 Control Parameters**

ACGIH Threshold Limit Value (TLV): none available OSHA Permissible Exposure Limit (PEL): none available

#### **8.2 Exposure Controls**

#### **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.

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

# 9.1 Information on Basic Physical & Chemical Properties

a. Appearance	White powder	b. Odor	None
c. Odor Threshold	N.A.	d. pH	Not available
e. Melting/Freezing Point (°C)	182-184	f. Boiling point (°C)	Not available
g. Flash Point (°C)	N.A.	h. Evaporation Rate	Not available
i. Flammability	N.A.	j. Upper/Lower Flammability or Explosive Limits	Not Available
k. Vapor Pressure	Negligible	I. Vapor Density (Air = 1)	Not available
m. Relative Density	Not available	n. Water Solubility	soluble
o. Partition Coefficient n-octanol/water		p. Autoignition Temperature (°C)	N.A.
q. Decomposition Temperature (°C)		r. Viscosity	No data available.
s. Explosive Properties	N.A.	t. Oxidizing Properties	N.A.

# **SECTION 10 - STABILITY AND REACTIVITY**

#### 10.1 Reactivity

Not reactive under normal conditions of use and storage.

#### 10.2 Chemical Stability

Stable under normal temperatures and pressures.

#### 10.3 Possibility of Hazardous Reactions

Will not occur under normal conditions of use (See Sections 10.4 & 10.5).

## 10.4 Conditions to Avoid

Incompatibles

# 10.5 Incompatible Materials

Strong oxidizing agents.

#### 10.6 Hazardous Decomposition Products

Nitrogen oxides, carbon monoxide, carbon dioxide, nitrogen.

#### **SECTION 11 - TOXICOLOGICAL INFORMATION**

**Product LD50 Values** 

Oral Rat LD50 (mg/kg)

No Data

# Dermal Rabbit LD50 (mg/kg)

No Data

# **Component Cancer List Status**

# **NTP Carcinogen**

	Known	Anticipated	IARC Category
Tricine	No	No	None

# 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.

#### 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.

# **SECTION 12 - ECOLOGICAL INFOMATION**

# 12.1 Toxicity

	Vertebrates	Invertebrates	Algae	Microorganisms	
Aquatic Toxicity (ppm unless otherwise noted)	No data	No data	No data	No data	
	Birds	Arthropods	Plants	Microorganisms	
Terrestrial Environment Toxicity (ppm unless otherwise noted)	No data	No data	No data	No data	

# 12.2 Persistence and Degradability

No data

# 12.3 Bioaccumulative Potential

No data

# 12.4 Mobility in Soil

No data

# 12.5 Results of PBT and vPvB Assessment

No data

# 12.6 Other Adverse Effects

None

# **SECTION 13 - DISPOSAL CONSIDERATIONS**

# 13.1 Waste Treatment Methods

Offer surplus or non-recyclable product to licensed disposal company. Disposal is subject to user compliance with applicable law and product characteristics at time of disposal. Dispose of packaging as product.

# **SECTION 14 - TRANSPORT INFORMATION**

	ADR/RID	IATA	IMO	DOT
14.1 UN Number	N.A.	N.A.	N.A.	N.A.
14.2 Shipping Name	Not Regulated	Not Regulated	Not Regulated	Not Regulated
14.3 Hazard Class	N.A.	N.A.	N.A.	N.A.
14.4 Packing Group	N.A.	N.A.	N.A.	N.A.
14.5 Environmental Hazards	N.A.	N.A.	N.A.	N.A.
14.6 Special Precautions	N.A.	N.A.	N.A.	N.A.

# **SECTION 15 - REGULATORY INFORMATION**

# 15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance/Mixture **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	No	No	No	No	No

# Europe EEC Regulatory

All intentional ingredients are listed on the European EINECS Inventory.

#### **SECTION 16 - OTHER INFORMATION**

# **Revisional Updates**

4/26/2019 - Updated Section 1.4 5/29/2015 - Updated Sections 2.1 and 3.1 8/14/2013 - Released Version 1.0

#### **NFPA Codes**

Health 0 Flammability 0 Reactivity 0

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