Triethanolamine

CAROLINA®

Product Description

Product Name: Recommended Use: Synonyms: Distributor:

Section 1

Section 2

Triethanolamine Science education applications 2,2', 2"-Nitriloethanol Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

Chemical Information: Chemtrec:

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

GHS Classification:

Other Safety Precautions:	Not a dangerous substance according to GHS classification criteria. No known OSHA hazards. May cause eye irritation. May cause gastrointestinal discomfort. May cause irritation to respiratory tract. May cause irritation to skin.
Acute Toxicity Inhalation Gas Contains	100 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Inhalation Vapor Contains	100 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Inhalation Dust/Mist Contains	100 % of the mixture consists of ingredient(s) of unknown toxicity

Section 3

Composition / Information on Ingredients

First Aid Measures

<u>Chemical Name</u>	
Triethanolamine	

<u>CAS #</u> 102-71-6

<u>%</u> 100

Section 4

Section 5

nergency and Eirst Aid Brocedures

Emergency and First A	ia Procedures
Inhalation:	In case of accident by inhalation: remove casualty to fresh air and keep at rest.
Eyes:	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Skin Contact:	After contact with skin, wash immediately with plenty of water.
Ingestion:	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Firefighting Procedures

Extinguishing Media: Fire Fighting Methods and Protection:	Use media suitable to extinguish surrounding fire. Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Fire and/or Explosion Hazards:	Contact with strong oxidizers may cause fire or explosion.
Hazardous Combustion Products:	Carbon dioxide, Carbon monoxide

Section 6

Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS Poses little or no immediate hazard Avoid the generation of dusts during clean-up. Remove soiled clothing and launder before reuse.

No special spill clean-up considerations. Collect and discard in regular trash.

Section 7

Handling and Storage

Handling:Keep container tightly closed in a cool, well-ventilated place.Storage:Suitable for any general chemical storage.Storage Code:Green - general chemical storage

Section 8

Protection Information

	ACGI	Н	OSH	A PEL
<u>Chemical Name</u> Triethanolamine	(TWA) 5 mg/m3 TWA	(<u>STEL)</u> N/A	(TWA) N/A	(STEL) N/A
Control Parameters				
Engineering Measures:	No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.			
Personal Protective Equipment (PPE):	Lab coat, apron, eye wash, safety shower.			
Respiratory Protection:	No respiratory protection required under normal conditions of use.			
Eye Protection:	Wear chemical splash goggles when handling this product. Have an eye wash station available.			
Skin Protection:	Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.			
Gloves:	Natural rubber, Neoprene, PVC or equivalent.			
Gloves:	Natural rubber, Neopren	<i>,</i> ,		

Section 9

Physical Data

Formula: N(CH3CH2OH)3 Molecular Weight: 149.19 g/mol Appearance: Colorless to pale yellow Liquid Odor: Mild Ammonia Odor Threshold: No data available pH: 10.5, conc: 0.1 N (aqueous solution) Melting Point: 22 C Boiling Point: 277 C Flash Point: 179 C Flammable Limits in Air: N/A

Reactivity Data

Vapor Pressure: 0 kPa at 20 °C

Vapor Density (Air=1): 5.1

Solubility in Water: Soluble

Log Pow (calculated): -2.53

Viscosity: No data available

Specific Gravity: 1.12

Evaporation Rate (BuAc=1): N/A

Autoignition Temperature: 324 C

Percent Volatile by Volume: N/A

Decomposition Temperature: No data available

Reactivity: Chemical Stability: Conditions to Avoid: Incompatible Materials: Hazardous Polymerization: No data available Stable under normal conditions. None known. Strong acids, Strong oxidizing agents Will not occur

Section 11

Section 10

Toxicity Data

Routes of Entry Symptoms (Acute): Delayed Effects: Inhalation, ingestion, eye or skin contact. None Known No data available

Acute Toxicity: Chemical Name

CAS Number

Oral LD50

Dermal LD50

Inhalation LC50

		Salety D	ala Sheel			
Triethanolamine	10	02-71-6	Oral LD50 Rab 2200 mg/kg Oral LD50 Mou 5846 mg/kg	> 16 ml/kg		ot determined
Carcinogenicity: Chemical Name No data available	10	CAS Number 02-71-6	IARC Not listed	NT Not listed	-	OSHA ot listed
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects: Acute: Chronic:	No evidence of a mutagenic effect. No evidence of a teratogenic effect (birth defect). No evidence of a sensitization effect. No evidence of negative reproductive effects. See Section 2 Not listed as a carcinogen by IARC, NTP or OSHA.					
Section 12		Ed	cological Da	ata		
Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects:	This material is not expected to be harmful to the ecology. Keep out of waterways. No data No data No data No data No data					
Chemical Name Triethanolamine	CAS NumberEco Toxicity102-71-696 HR LC50 PIMEPHALES PROMELAS > 1000 MG/L [STATIC]24 HR EC50 DAPHNIA MAGNA 1386 MG/L72 HR EC50 DESMODESMUS SUBSPICATUS 216 MG/L96 HR EC50 DESMODESMUS SUBSPICATUS 169 MG/L					
Section 13		Disp	osal Inform	ation		
Disposal Methods: Waste Disposal Code(s	Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.					
Section 14		Trans	sport Inforn	nation		
Ground - DOT Proper S N/A	hipping Name:			er Shipping Nar or air transport by		
Section 15		Regul	latory Inform	nation		
TSCA Status:	All com	ponents in this p	roduct are on the T	SCA Inventory.		
Chemical Name	CAS Number	§ 313 Name	e § 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
No data available	102-71-6	No	No	No	No	No

Section 16

Additional Information

Revised: 09/09/2015

Replaces: 07/31/2015

Printed: 10-29-2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

ACGIH	American Conference of Governmental Industrial Hygienists	NTP OSHA	National Toxicology Program Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health