Tris (Hydroxymethyl) Aminomethane

www.carolina.co

Section 1

Product Description

Product Name: Recommended Use: Synonyms: Distributor:

Chemical Information:

Tris (Hydroxymethyl) Aminomethane Science education applications Amino Alcohol, 2-amino-2-(hydroxylmethyl)propane-1, 3-diol 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)

Section 2

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.
Acute Toxicity Oral Contains Acute Toxicity Dermal Contains Acute Toxicity Inhalation Gas Contains	100 % of the mixture consists of ingredient(s) of unknown toxicity 100 % of the mixture consists of ingredient(s) of unknown toxicity 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

Section 4

Composition / Information on Ingredients

CAS #

77-86-1

% 100

Chemical Name	
Tris(Hydroxymethyl) Aminomethane	

First Aid Measures

Emergency and First Aid 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.

Section 5

Firefighting Procedures

Section 6	Spill or Leak Procedures
Hazardous Combustion Products:	Carbon dioxide, Carbon monoxide, Nitrogen oxides
Fire and/or Explosion Hazards:	Fire or excessive heat may produce hazardous decomposition products.
Fire Fighting Methods and Protection:	Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Extinguishing Media:	Use dry chemical, CO2 or appropriate foam.

Steps to Take in Case Material Is **Released or Spilled:**

No adverse health affects expected from the clean-up of spilled material. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS. Avoid the generation of dusts during clean-up. Avoid creating and inhaling dust.

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Vacuum or sweep up material and place in a disposal container

Section 7

Section 8

Handling and Storage

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

Protection Information

	ACG	ын	OSHA PEL			
Chemical Name	(TWA)	(STEL)	(TWA)	(STEL)		
No data available	N/A	N/A	N/A	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 w	ash, safety shower.				
Respiratory Protection:	No respiratory protection required under normal conditions of use. Provide general room exhaust ventilation if symptoms of overexposure occur as explained Section 11. A respirator is not normally required. Respiratory protection may be required in addition to ventilation depending upon 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:	Nitrile					

Section 9

Physical Data

Formula: C4H11NO3 Molecular Weight: 121.13 g/mol Appearance: Colorless to White Crystalline Solid Odor: No data available Odor Threshold: No data available pH: 10.4, conc: 0.1 M (aqueous solution) Melting Point: No data available 171 C Boiling Point: 219 C Flash Point: No data available Flammable Limits in Air: N/A N/A

Vapor Proso

Vapor Pressure: N/A Evaporation Rate (BuAc=1): N/A Vapor Density (Air=1): N/A Specific Gravity: 1.35 Solubility in Water: Soluble Log Pow (calculated): No data available Autoignition Temperature: No data available Decomposition Temperature: No data available Viscosity: No data available Percent Volatile by Volume: N/A

Section 10

Reactivity: Chemical Stability: Conditions to Avoid: Hazardous Decomposition Products: Hazardous Polymerization:

Toxicity Data

Nitrogen oxides, Carbon dioxide, Carbon monoxide

Routes of Entry Symptoms (Acute): Delayed Effects:

Section 11

: None Known No data available

Acute Toxicity: Chemical Name

CAS Number

No data available

Will not occur

Inhalation, ingestion, eye or skin contact.

Exposure to moisture

Stable under normal conditions.

Oral LD50

Reactivity Data

Dermal LD50

Inhalation LC50

No data available		77-86-1	Not determined	Not determined	Not determined
Carcinogenicity: Chemical Name No data available		CAS Number 77-86-1	IARC Not listed	NTP Not listed	OSHA Not 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		Ec	ological Data		

Ecological Data

Overview:	
Mobility:	
Persistence:	
Bioaccumulation:	
Degradability:	
Other Adverse Effects:	

This material is not expected to be harmful to the ecology. No data No data No data No data No data

Chemical Name N/A

Section 13

Disposal Information

Eco Toxicity

Disposal Methods:

Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance. Not Determined

Waste Disposal Code(s):

Transport Information

Ground - DOT Proper Shipping Name: Not regulated for transport

Air - IATA Proper Shipping Name: Not regulated for air transport by IATA.

Section 15

TSCA Status:

Section 14

Regulatory Information

CAS Number

77-86-1

All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
No data available	77-86-1	No	No	No	No	No

Section 16

Additional Information

Revised: 09/09/2015

Replaces: 03/24/2015

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