

# SAFETY DATA SHEET

Creation Date 15-Dec-2011	Revision Date 23-Jan-2018	<b>Revision Number</b> 3	
	1. Identification		
Product Name	Tris(hydroxymethyl)aminomethane		
Cat No. :	AC424570000; AC424571000; AC424575000;	AC424570025	
CAS-No Synonyms	77-86-1 Tromethane; 2-Amino-2-(hydroxymethyl)-1,3-propanediol; T Trometamol	RIS; Tromethamine;	
Recommended Use Uses advised against	Laboratory chemicals. Not for food, drug, pesticide or biocidal product use		
Details of the supplier of the safety data sheet			
<u>Company</u> Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100	Acros Organics One Reagent Lane Fair Lawn, NJ 07410		

### **Emergency Telephone Number**

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

### 2. Hazard(s) identification

### Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Based on available data, the classification criteria are not met

Label Elements
None required

Hazards not otherwise classified (HNOC) None identified

3.	Com	position	Information (	on Ingredients

Component	CAS-No	Weight %		
Tris (hydroxymethyl) aminomethane	77-86-1	>95		
4. First-aid measures				

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.
Inhalation	Move to fresh air. Get medical attention immediately if symptoms occur.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.
Most important symptoms and effects	None reasonably foreseeable.
Notes to Physician	Treat symptomatically

### 5. Fire-fighting measures

Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	Not applicable
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impac	t No information available
Sensitivity to Static Discharge	No information available

### Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

#### **Hazardous Combustion Products**

Nitrogen oxides (NOx) Carbon monoxide (CO) Carbon dioxide (CO<sub>2</sub>)

### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<u>NFPA</u> Health 1	Flammability 1	Instability 1	Physical hazards N/A
	6. Accidental re	lease measures	
Personal Precautions Environmental Precautions			
Methods for Containment and Cle Up	ean Sweep up or vacuum up s formation.	pillage and collect in suitable or	ontainer for disposal. Avoid dust
	7. Handling	and storage	
Handling		equipment. Ensure adequate ve ngestion and inhalation. Avoid o	entilation. Avoid contact with skin, dust formation.
Storage	Keep containers tightly clo	osed in a dry, cool and well-vent	tilated place.
8.	Exposure controls	/ personal protection	on

Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.
Engineering Measures	None under normal use conditions.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
<b>Respiratory Protection</b>	No protective equipment is needed under normal use conditions.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

# 9. Physical and chemical properties

Physical State	Powder Solid
Appearance	White
Odor	Slight
Odor Threshold	No information available
pH	10-11.5 1% ag. sol
Melting Point/Range	168.5 °C / 335.3 °F
Boiling Point/Range	219 - 220 °C / 426.2 - 428 °F @ 10 mmHg
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	550 g/L (25°C)
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	Not applicable
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C4 H11 N O3
Molecular Weight	121.14

## 10. Stability and reactivity

Reactive Hazard	None known, based on information available	
Stability	Stable. Hygroscopic.	
Conditions to Avoid	Exposure to moist air or water.	
Incompatible Materials	Bases, Strong oxidizing agents, Metals, copper	
Hazardous Decomposition Products Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2)		
Hazardous Polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	None under normal processing.	

## 11. Toxicological information

### Acute Toxicity

Component		LD50 Oral		LD50 Dermal	LC50	nhalation
Tris (hydroxymethyl) aminomethane		D50 = 5900 mg/kg ( Rat ) Not listed		Not listed		
Foxicologically Syn Products Delayed and immed	-	No information ava		d long-term expo	sure	
rritation		No information ava	ilable			
Sensitization		No information ava	ilable			
Carcinogenicity		The table below in	dicates whether ea	ach agency has list	ed any ingredient a	as a carcinoge
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Tris (hydroxymethyl) aminomethane	77-86-1	Not listed	Not listed	Not listed	Not listed	Not listed
Iutagenic Effects		No information ava	nilable			
Reproductive Effect	s	No information ava	ilable.			
Developmental Effe	cts	No information available.				
Teratogenicity No information available.			ilable.			
relatogementy						
STOT - single expos		None known None known				
GTOT - single expos GTOT - repeated exp						
STOT - single expos STOT - repeated exp Aspiration hazard Symptoms / effects delayed	posure	None known No information ava	ilable			

Other Adverse Effects The toxicological properties have not been fully investigated.

	12 Ecological information
	12. Ecological information
Ecotoxicity	
Do not empty into drains	
Persistence and Degradability	Soluble in water Persistence is unlikely based on information available.
Bioaccumulation/ Accumulation No information available.	
Mobility	Will likely be mobile in the environment due to its water solubility.
	13. Disposal considerations
Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.
	14. Transport information

DOT	Not regulated
TDG	Not regulated
ΙΑΤΑ	Not regulated
IMDG/IMO	Not regulated
	15 00

### 15. Regulatory information

All of the components in the product are on the following Inventory lists: X = listed

#### International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Tris (hydroxymethyl)	Х	Х	-	201-064-4	-		Х	Х	Х	Х	Х
aminomethane											

Legend: X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

#### U.S. Federal Regulations

TSCA 12(b)	Not applicable
SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
<b>OSHA</b> Occupational Safety and Health Not applicable	n Administration
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals
U.S. State Right-to-Know Regulations	Not applicable
U.S. Department of Transportation	
Reportable Quantity (RQ): DOT Marine Pollutant	N N

## DOT Severe Marine Pollutant N

**U.S. Department of Homeland Security** This product does not contain any DHS chemicals.

### Other International Regulations

#### Mexico - Grade No information available 16. Other information Regulatory Affairs Prepared By Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com **Creation Date** 15-Dec-2011 **Revision Date** 23-Jan-2018 **Print Date** 23-Jan-2018 **Revision Summary** This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

# **End of SDS**