

SAFETY DATA SHEET

Creation Date 08-Nov-2011 Revision Date 18-Jan-2018 Revision Number 3

1. Identification

Product Name

Tris-Acetate-EDTA, 50X Solution (Electrophoresis)

Cat No. :

BP1332-1; BP1332-4; BP1332-20; BP1332-500

Synonyms

No information available

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

Emergency Telephone Number

CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 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. Composition/Information on Ingredients

Component	CAS-No	Weight %
Water	7732-18-5	69-85
Tris (hydroxymethyl) aminomethane	77-86-1	12-24
1,3-Propanediol, 2-amino-2-(hydroxymethyl)-,	6850-28-8	<5
acetate (salt)		
Ethylenediamine tetraacetic acid (EDTA)	60-00-4	< 2

	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 if symptoms occur.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Get medical attention if symptoms occur.
Ingestion	Do not induce vomiting. Obtain medical attention.
Most important symptoms and	No information available.
effects Notes to Physician	Treat symptomatically

5. Fire-fighting measures

Substance is nonflammable; use agent most appropriate to extinguish surrounding fire. Suitable Extinguishing Media

Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

Hazardous Combustion Products

None known

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.

NFPA

Health 2	Flammability 0	Instability 0	Physical hazards N/A
	6. Accidental rel	ease measures	
Personal Precautions	Use personal protective eq eyes and clothing.	uipment. Ensure adequate vent	ilation. Avoid contact with skin,
Environmental Precautions	Should not be released into information.	the environment. See Section	12 for additional ecological

Methods for Containment and Clean Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Up

7. Handling and storage

Handling Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist. Do not ingest.

Storage	Keep containers tightly closed in a dry, cool and well-ventilated place.			
8. E	xposure controls / personal protection			
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.			
Respiratory Protection	No protective equipment is needed under normal use conditions.			
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.			

9	Physical	and	chemica	I properties
7.	THYSICAL	anu	CIICIIICa	

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Physical State	Liquid
Appearance	No information available
Odor	No information available
Odor Threshold	No information available
рН	No information available
Melting Point/Range	No data available
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	No information available
Specific Gravity	No information available
Solubility	miscible
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available

10. Stability and reactivity

Reactive Hazard	None known, based on information available		
Stability	Stable under normal conditions.		
Conditions to Avoid	Excess heat.		
Incompatible Materials	None known		
Hazardous Decomposition Products None under normal use conditions			
Hazardous Polymerization	Hazardous polymerization does not occur.		

Hazardous Reactions

None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information Oral LD50 Dermal LD50 Vapor LC50 **Component Information**

Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Based on ATE data, the classification criteria are not met. ATE > 20 mg/l.

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water	-	Not listed	Not listed
Tris (hydroxymethyl) aminomethane	LD50 = 5900 mg/kg (Rat)	Not listed	Not listed
Ethylenediamine tetraacetic acid (EDTA)	4500 mg/kg (Rat) >2000 mg/kg(Rat)	Not listed	1 mg/l (rat)
Toxicologically Synergistic	No information available		

Toxicologically Synergistic

Products

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation

Irritating to eyes and skin No information available

Sensitization

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Water	7732-18-5	Not listed	Not listed	Not listed	Not listed	Not listed
Tris (hydroxymethyl) aminomethane	77-86-1	Not listed	Not listed	Not listed	Not listed	Not listed
1,3-Propanediol, 2-amino-2-(hydroxyme thyl)-, acetate (salt)	6850-28-8	Not listed	Not listed	Not listed	Not listed	Not listed
Ethylenediamine tetraacetic acid (EDTA)	60-00-4	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information av	ailable			
Reproductive Effects		No information av	ailable.			
Developmental Effects	5	No information available.				
Teratogenicity		No information available.				
STOT - single exposure STOT - repeated expo		None known None known				
Aspiration hazard		No information av	ailable			
Symptoms / effects,b delayed	oth acute and	No information av	ailable			
Endocrine Disruptor I	nformation	No information available				
Other Adverse Effects	;	The toxicological properties have not been fully investigated. See actual entry in RTECS complete information.			entry in RTECS for	
		12 Ecol	onical infor	mation		

12. Ecological information

Ecotoxicity Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Ethylenediamine tetraacetic acid (EDTA)	EC50: = 1.01 mg/L, 72h (Desmodesmus subspicatus)	LC50: 44.2 - 76.5 mg/L, 96h static (Pimephales promelas) LC50: 34 - 62 mg/L, 96h static (Lepomis macrochirus)		EC50: = 113 mg/L, 48h Static (Daphnia magna)
Persistence and Degradability Miscible with 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 classifi hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification			local, regional, and	
	14. 7	Transport informa	ation	
DOT TDG	Not regulate Not regulate			
	inoriegulate	u		

Not regul	ated	
15.	Regulatory information	

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Water	Х	Х	-	231-791-2	-		Х	-	Х	Х	Х
Tris (hydroxymethyl) aminomethane	Х	Х	-	201-064-4	-		Х	Х	Х	Х	Х
1,3-Propanediol, 2-amino-2-(hydroxymethyl)-, acetate (salt)	Х	-	Х	229-939-6	-		Х	-	-	-	-
Ethylenediamine tetraacetic acid (EDTA)	Х	Х	-	200-449-4	-		Х	Х	Х	Х	Х

Legend:

IATA IMD<u>G/IMO</u>

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.

Not regulated

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)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Ethylenediamine tetraacetic acid (EDTA)	Х	5000 lb	-	-

Clean Air Act

Not applicable

OSHA Occupational Safety and Health Administration Not applicable

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs	
Ethylenediamine tetraacetic acid (EDTA)	5000 lb	-	

California Proposition 65This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know

Regulations					
Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Water	-	-	Х	-	-
Ethylenediamine	Х	Х	Х	-	-
tetraacetic acid (EDTA)					

U.S. Department of Transportation

Reportable Quantity (RQ):		
DOT Marine Pollutant	Ν	
DOT Severe Marine Pollutant	Ν	

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
Prepared By	Regulatory Affairs
	Thermo Fisher Scientific
	Email: EMSDS.RA@thermofisher.com
Creation Date	08-Nov-2011
Revision Date	18-Jan-2018
Print Date	18-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