Tris Acetate EDTA Buffer, 50X



Section 1

Section 2

Product Description

Product Name: Recommended Use: Synonyms: Distributor:

Tris Acetate EDTA Buffer, 50X Science education applications TAE Buffer 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;

WARNING



Causes skin irritation. Causes serious eye irritation. Harmful to aquatic life.

GHS Classification:

Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2, Hazardous to the aquatic environment - Acute Category 3

Acute Toxicity Oral Contains Acute Toxicity Dermal Contains Acute Toxicity Inhalation Dust/Mist Contains

18.5 % of the mixture consists of ingredient(s) of unknown toxicity 26.2 % of the mixture consists of ingredient(s) of unknown toxicity

26.2 % of the mixture consists of ingredient(s) of unknown toxicity

Section 3

Composition / Information on Ingredients

First Aid Measures

<u>Chemical Name</u>	<u>CAS #</u>
Water	7732-18-5
Tris(Hydroxymethyl) Aminomethane	77-86-1
Ethylenediaminetetraacetic Acid, Disodium Salt, Dihydrate (EDTA Sodium)	6381-92-6
Acetic Acid, Glacial	64-19-7

Section 4

Emergency and Firs	st Aid Procedures
Inhalation:	In case of accident by inhalation: remove casualty to fresh air and keep at rest.
Eyes:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy
	to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Skin Contact:	IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
	Take off contaminated clothing and wash before reuse.
Ingestion:	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
Section 5	Firefighting Procedures

Section 5

Extinguishing Media: Fire Fighting Methods and Protection: Use dry chemical, CO2 or appropriate foam.

Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

% 72.8 17.5 8.7 1

Fire and/or Explosion Hazards: Hazardous Combustion Products: N/A Carbon dioxide, Carbon monoxide

Section 6	Spill or Leak Procedures
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. Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits. Avoid the generation of dusts during clean-up. Avoid creating and inhaling dust. Ventilate the contaminated area. 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.

Section 7

Handling and Storage

 Handling:
 Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Avoid contact with skin and eyes.

 Storage:
 Keep container tightly closed in a cool, well-ventilated place.

 Storage Code:
 Green - general chemical storage

Section 8

Protection Information

	ACGIH		OSHA F	PEL
Chemical Name	<u>(TWA)</u>	(<u>STEL)</u>	<u>(TWA)</u>	(<u>STEL</u>)
EDTA, Disodium Salt, Dihydrate	N/A	N/A	N/A	N/A
Acetic Acid, Glacial	10 ppm TWA	15 ppm STEL	10 ppm TWA; 25 mg/m3 TWA	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 wa	ash, 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:	Nitrile, Butyl rubber, Ne	oprene, Polyvinyl chl	oride	

Section 9

Physical Data

Formula: See Section 3 Molecular Weight: N/A Appearance: Colorless Colorless to White Powder Odor: None Odor Threshold: No data available pH: No data available Melting Point: No data available 171 C Boiling Point: 100 C

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

Flash Point: No data available Flammable Limits in Air: N/A

Viscosity: No data available Percent Volatile by Volume: N/A

Section 10

Reactivity Data

Reactivity:	No data available
Chemical Stability:	Stable under normal conditions.
Conditions to Avoid:	Exposure to moisture Temperatures above the high flash point of this combustible materia
	in combination with sparks, open flames, or other sources of ignition.
Incompatible Materials:	Water-reactive materials, Strong oxidizing agents, Acetic anhydride, Acetaldehydes,
	Caustics (bases), Oxidizing materials, Halogens, Carbonates
Hazardous Polymerization:	Will not occur

Section 11

Toxicity Data

Routes of Entry Symptoms (Acute): Delayed Effects:	Inhalation, ingestion, eye or skin contact., Ingestion, skin and eye contact. N/A No data available				
Acute Toxicity: Chemical Name Water		CAS Number 7732-18-5	Oral LD50 Oral LD50 Rat 90000 mg/kg	Dermal LD50	Inhalation LC50
EDTA, Disodium Salt,	Dihydrate	6381-92-6	Oral LD50 Rat 2000 mg/kg		
Acetic Acid, Glacial		64-19-7			INHALATION LC50 Mouse 5620 ppm
Carcinogenicity: Chemical Name EDTA, Disodium Salt,	Dihydrate	CAS Number 6381-92-6	IARC Not listed	NTP Not listed	OSHA Not listed
Acetic Acid		64-19-7	Not listed	Not listed	Not listed
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects Acute: Chronic:	No evidence of a No evidence of a No evidence of n S: See Section 2	mutagenic effect. teratogenic effect (birth sensitization effect. egative reproductive effect carcinogen by IARC, N	ects. TP or OSHA.		
Section 12		Ec	ological Data	a	

Overview:	This material is not expected to be harmful to the ecology.
Mobility:	No data
Persistence:	Dissolved into water, Photodegradation, Biodegradation
Bioaccumulation:	No data
Degradability:	No data
Other Adverse Effects:	No data

6381-92-6 64-19-7

Chemical Name				
Water				
EDTA, Disodium Salt, Dihydrate				
Acetic Acid, Glacial				

CAS Number 7732-18-5

Eco Toxicity

No data available

Aquatic LC50 (96h) Fathead Minnow 79 MG/L Aquatic EC50 (24h) Daphnia 47 MG/L

Section 13

Disposal Information

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

Disposal Methods:

Waste Disposal Code(s):

Transport Information

Ground - DOT Proper Shipping Name:

Not Regulated for Transport

Section 14

Section 15

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

Regulatory Information

Additional Information

TSCA Status:	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
EDTA, Disodium Salt, Dihydrate	6381-92-6	No	No	No	No	No
Acetic Acid, Glacial	64-19-7	No	5000 lb RQ	5000 lb final RQ; 2270 kg final RQ	No	No

Section 16

Revised: 09/09/2015

Replaces: 08/26/2014

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	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	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