

SAFETY DATA SHEET

Creation Date 11-Oct-2011 Revision Date 18-Jan-2018 Revision Number 4

1. Identification

Product Name

EDTA 0.5M Solution of pH 8.0 (for DNA Work)

Cat No. :

BP2482-1, BP2482-4, BP2482-20, BP2482-100, BP2482-500

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

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious Eye Damage/Eye Irritation Specific target organ toxicity - (repeated exposure)

Category 2 Category 2

Label Elements

Signal Word Warning

Hazard Statements

Causes serious eye irritation May cause damage to organs through prolonged or repeated exposure



Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling

Wear eye/face protection

Do not breathe dust/fume/gas/mist/vapors/spray

Response

Get medical attention/advice if you feel unwell

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

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Component		CAS-No	Weight %
Water		7732-18-5	> 85
Ethylenediamine tetraacetic ac	id (EDTA)	60-00-4	10 - 15
	4.	First-aid measures	
General Advice	If symptoms p	persist, call a physician.	
Eye Contact	Rinse immed medical atten	, i , .	he eyelids, for at least 15 minutes. Get
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.		
Inhalation	Move to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.		
Ingestion	Clean mouth with water and drink afterwards plenty of water.		
Most important symptoms and effects	None reasonably foreseeable.		
Notes to Physician	Treat symptomatically		

5. Fire-fighting measures

Unsuitable Extinguishing Media	No information available
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	Not applicable No information available
Autoignition Temperature Explosion Limits	Not applicable
	No data available
Lower	No data available
Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No information available No information available

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

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 re	lease measures	
Personal Precautions Environmental Precautions	Use personal protective equipment. Ensure adequate ventilation. Do not flush into surface water or sanitary sewer system.		

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

	7. Handling and storage		
Handling	Ensure adequate ventilation. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation.		
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place.		
8.	Exposure 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	Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.		
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	Long sleeved clothing.		
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.		
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.		
	9. Physical and chemical properties		
Physical State Appearance Odor Odor Threshold pH	Liquid Colorless Slight No information available 8		
Melting Point/Range	No data available		

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Melting Point/Range
Boiling Point/Range
Flash Point
Evaporation Rate
Flammability (solid,gas)
Flammability or explosive limits
Upper
Lower

No information available

No information available

Not applicable

Not applicable

No data available No data available

No information available No information available No information available miscible No data available Not applicable No information available No information available

10. Stability and reactivity

Reactive Hazard	No		
Stability	Stable under normal conditions.		
Conditions to Avoid	Incompatible products.		
Incompatible Materials	Strong oxidizing agents		
Hazardous Decomposition Product	tion 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	1	Based on ATE da	Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.			
Dermal LD50			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.			
Vapor LC50				on criteria are not m		
Component Informa	ition					
Componen	1	LD50 Oral		LD50 Dermal	LC50 Inhalation	
Water		-		Not listed	Nc	ot listed
Ethylenediamine tetra (EDTA)	acetic acid	4500 mg/kg (Rat >2000 mg/kg(Rat		Not listed	1 m	ng/l (rat)
Toxicologically Syne Products	ergistic	No information av	ailable			
	iate effects	as well as chronic effe	ects from short a	nd long-term expo	osure	
<u>Doidjoù ana minoù</u>						
Irritation		Irritating to eyes	Irritating to eyes			
Sensitization		No information av	No information available			
Carcinogenicity		The table below in	The table below indicates whether each agency has listed any ingredient as a carcinogen.			as a carcinogen.
Component	CAS-N	D IARC	NTP	ACGIH	OSHA	Mexico
Water	7732-18	-5 Not listed	Not listed	Not listed	Not listed	Not listed
Ethylenediamine 60-00-4 tetraacetic acid (EDTA)		Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information av	No information available			
Reproductive Effect	S	No information available.				
Developmental Effe	cts	No information available.				

Teratogenicity No information available.

STOT - single exposure STOT - repeated exposure	None known None known
Aspiration hazard	No information available
Symptoms / effects,both acute and delayed	No information available
Endocrine Disruptor Information	No information available
Other Adverse Effects	The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

Contains a substance which is:. Toxic to aquatic organisms. The product contains following substances which are hazardous for the environment.

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)	Not listed	EC50: = 113 mg/L, 48h Static (Daphnia magna)
Persistence and Degradabi	ility Miscible with	water Persistence is unlikel	y based on information a	available.
Bioaccumulation/ Accumul	lation No information	on available.		
Mobility	Will likely be	mobile in the environment d	ue to its water solubility.	
	13. Di	sposal considera	tions	
Waste Disposal Methods	Chemical wa	ste generators must determ	ine whether a discarded	chemical is classified as

 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 TDG IATA	Not regulated
TDG	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated
	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
Water	Х	Х	-	231-791-2	-		Х	-	Х	Х	Х
Ethylenediamine tetraacetic acid (EDTA)	Х	Х	-	200-449-4	-		Х	Х	Х	Х	Х

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)

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

rior applicabl

CERCLA

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

California Proposition 65

This 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):	Ν
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

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Mexico - Grade
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No information available

16. Other informationPrepared ByRegulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.comCreation Date11-Oct-2011
18-Jan-2018Print Date18-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

