

# SAFETY DATA SHEET

Creation Date 03-Sep-2009	Revision Date 17-Jan-2018	Revision Number 5
	1. Identification	
Product Name	Ethylenediaminetetraacetic acid, disodium salt o	dihydrate
Cat No. :	S311-10; S311-100; S311-3; S311-3LC; S311-500;	; S311-50KG
CAS-No Synonyms	6381-92-6 (Ethylenedinitrilo)tetraacetic acid, disodium salt dihydrate; Diso EDTA, disodium salt dihydrate	dium edetate dihydrate;
Recommended Use Uses advised against	Laboratory chemicals. Not for food, drug, pesticide or biocidal product use	
Details of the supplier of the safety	v 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- CHEMTREC®, Outside the USA: 00 <sup>-</sup>		

2. Hazard(s) identification

#### Classification

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

Acute Inhalation Toxicity - Dusts and Mists Specific target organ toxicity - (repeated exposure) Target Organs - Respiratory system. Category 4 Category 2

#### Label Elements

Signal Word Warning

Hazard Statements Harmful if inhaled May cause damage to organs through prolonged or repeated exposure



#### Precautionary Statements Prevention Use only outdoors or in a well-ventilated area Do not breathe dust/fume/gas/mist/vapors/spray Response Get medical attention/advice if you feel unwell Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell 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 %
Ethylenediaminetetraacetic acid, disodium salt	6381-92-6	>95
dihydrate		
Disodium EDTA	139-33-3	-

4. First-aid measures					
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if symptoms occur.				
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. Get medical attention if symptoms occur. If not breathing, give artificial respiration.				
Ingestion	Do not induce vomiting. Obtain medical attention.				
Most important symptoms and effects	No information available.				
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	No information available				
Method -	No information available				
Autoignition Temperature					
Explosion Limits Upper	No data available				
Lower	No data available				
Sensitivity to Mechanical Impact	No information available				
	No information available				

Thermal decomposition can lead to release of irritating gases and vapors.

## Hazardous Combustion Products

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.

NFPA Health 2	Flammability 1	Instability 0	Physical hazards N/A
	6. Accidental rele	ease measures	
Personal Precautions Environmental Precautions		. Use personal protective equip the environment. See Section	
Methods for Containment and Clea Up	an Sweep up or vacuum up spi formation.	llage and collect in suitable cor	ntainer for disposal. Avoid dust
	7. Handling a	nd storage	
Handling		uipment. Ensure adequate ver estion and inhalation. Avoid du	ntilation. Avoid contact with skin, ist formation.
Storage	Keep containers tightly close	ed in a dry, cool and well-ventil	ated place.
8. E	xposure controls /	personal protectio	n
Exposure Guidelines		in any hazardous materials wit on specific regulatory bodies.	h occupational exposure
Engineering Measures		ns and safety showers are close , especially in confined areas.	e to the workstation location.
Personal Protective Equipment			
Eye/face Protection		eyeglasses or chemical safety tion regulations in 29 CFR 191	
Skin and body protection	Wear appropriate protective	gloves and clothing to prevent	skin exposure.
Respiratory Protection	EN 149. Use a NIOSH/MSH	regulations found in 29 CFR 19 A or European Standard EN 14 d or if irritation or other sympto	
Hygiene Measures	Handle in accordance with g	ood industrial hygiene and saf	ety practice.

- 9. Physical and chemical properties
- Physical State Appearance Odor Odor Threshold pH Melting Point/Range Boiling Point/Range

Solid White Odorless No information available 4-6 5% aq. solution 252 °C / 485.6 °F No information available

# Ethylenediaminetetraacetic acid, disodium salt dihydrate

Flash Point **Evaporation Rate** Flammability (solid,gas) Flammability or explosive limits Upper Lower Vapor Pressure Vapor Density Specific Gravity Solubility Partition coefficient; n-octanol/water **Autoignition Temperature Decomposition Temperature** Viscosity Molecular Formula **Molecular Weight** 

No information available Not applicable No information available

No data available No data available No information available Not applicable No information available Soluble in water No data available

> 252°C Not applicable C10 H14 N2 Na2 O8 . 2 H2 O 372.23

## 10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products. Excess heat. Avoid dust formation.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Product	<b>s</b> Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> )
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

#### Acute Toxicity

## Product Information

Component Informa	tion						
Componen	t	LD50 Oral		LD50 Dermal	LC50	nhalation	
Disodium ED	ТА	LD50 > 2 g/kg (Rat	t)	Not listed	No	t listed	
Toxicologically Syn Products Delayed and immed	-	No information ava		id long-term expo	osure_		
rritation		No information ava	ailable				
Sensitization		No information available					
Carcinogenicity		The table below in	dicates whether ea	ach agency has lis	ted any ingredient a	as a carcinogen.	
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico	
Ethylenediaminetetraa cetic acid, disodium salt dihydrate	6381-92-6	Not listed	Not listed	Not listed	Not listed	Not listed	

 Disodium EDTA
 139-33-3
 Not listed
 Not listed
 Not listed

 Mutagenic Effects
 No information available

**Reproductive Effects** 

No information available.

Not listed

Not listed

No information available.
No information available.
None known Respiratory system
No information available
No information available
No information available
The toxicological properties have not been fully investigated.

12. Ecological information

#### Ecotoxicity

Do not empty into drains. .

Component	Freshwater Algae	Freshwater Algae Freshwater Fish		Water Flea			
Disodium EDTA	Not listed	Leuciscus idus: LC50 > 500 mg/L 96h	Microtox EC50 = 56 mg/L 8 h	> 100 mg/L 24h			
Persistence and Degradat	bility Soluble in v	vater Persistence is unlikely b	based on information avail	able.			
Bioaccumulation/ Accumu	ulation No informat	ion available.					
Mobility	Will likely b	e mobile in the environment o	due to its water solubility.				
	13. D	isposal considera	itions				
Waste Disposal Methods	hazardous	aste generators must determ waste. Chemical waste gene zardous waste regulations to	erators must also consult lo	ocal, regional, and			
	14.	Transport informa	ation				
DOT Not regulated							
TDG	Not regulate	ed					
ΙΑΤΑ	Not regulate	ed					
IMDG/IMO	Not regulate	ed	b				

#### International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Ethylenediaminetetraacetic	-	Х	-	-	-		Х	-	Х	Х	-
acid, disodium salt dihydrate											1
Disodium EDTA	Х	Х	-	205-358-3	-		Х	Х	Х	Х	Х

15. Regulatory information

#### 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 Healt Not applicable	h 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):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

#### **U.S. Department of Homeland Security**

Other International Regulations

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 Revision Date Print Date Revision Summary	03-Sep-2009 17-Jan-2018 17-Jan-2018 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