

# Part of Thermo Fisher Scientific Material Safety Data Sheet Revision Date 30-Mar-2010

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**Revision Number** 2

**1. PRODUCT AND COMPANY IDENTIFICATION** 

Product Name	Ethylenediaminetetraacetic acid, disodium salt dihydrate
Cat No.	BP120-1; BP120-500; BP2927-100; O2793-500; S311-3; S311-3LC; S311- 10; S311-50KG; S311-100; S311-500; S312-12; S312-125LB; S312-212; S312-500; S312SAM-1; S312SAM-2; S312SAM-3; S316-12; S31612LC; S316-212; S316SAM-1; S316SAM-2; S316SAM-3
Synonyms	(Ethylenedinitrilo)tetraacetic acid, disodium salt dihydrate; Disodium edetate dihydrate; EDTA, disodium salt dihydrate (Crystalline/Electrophoresis/Reagent/Certified ACS/USP/FCC/EP/BP/JP/JustPURE™)
Recommended Use	Laboratory chemicals
<b>Company</b> Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410	Emergency Telephone Number CHEMTREC®, Inside the USA: 800- 424-9300 CHEMTREC®, Outside the USA: 703-

# 2. HAZARDS IDENTIFICATION

CAUTION!		
	Emergency Overview	
May cause skin, eye, a	and respiratory tract irritation. The toxicological properties have	not been fully investigated.
Appearance White	Physical State Solid	odor odorles
Target Organs	None known.	
Potential Health Effects		
Acute Effects Principle Routes of Exposur	<u>e</u>	
Eyes Skin Inhalation	May cause irritation. May cause irritation. May be harmful in contact with skin. May cause irritation of respiratory tract. May be harmful if inh	naled.
Ingestion	May be harmful if swallowed. Ingestion may cause gastrointe and diarrhea.	

### Chronic Effects

None known.

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions No information available.

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

### Haz/Non-haz

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. Obtain 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. If breathing is difficult, give oxygen. Get medical attention immediately if symptoms occur.
Ingestion	Do not induce vomiting. Obtain medical attention.
Notes to Physician	Treat symptomatically.

# **5. FIRE-FIGHTING MEASURES**

Flash Point Method	No information available. No information available.
Autoignition Temperature Explosion Limits	No information available.
Upper Lower	No data available No data available
Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable Extinguishing Media	No information available.
Hazardous Combustion Products	No information available.
Sensitivity to mechanical impact Sensitivity to static discharge	No information available. No information available.

### Specific Hazards Arising from the Chemical

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

### **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 1	Flammability 1	Instability 0	Physical hazards N/A	
6. ACCIDENTAL RELEASE MEASURES					
Personal Precaut	ions	Ensure adequate ventilation. Use p	ersonal protective equip	nent. Avoid dust formation.	
Environmental Pr	recautions	Should not be released into the environment.			
Methods for Cont Up	tainment and Clean	<ul> <li>Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.</li> </ul>			
		7. HANDLING AND	STORAGE		
Handling		Wear personal protective equipme eyes and clothing. Avoid ingestion			
Storage		Keep containers tightly closed in a	dry, cool and well-ventilat	ed place.	
	8. EXPC	SURE CONTROLS / PER	SONAL PROTECT	ΓΙΟΝ	
Engineering Meas	sures	Ensure that eyewash stations and a adequate ventilation, especially in a		to the workstation location. Ensure	
Exposure Guideli	ines	This product does not contain any established by the region specific r	hazardous materials with	occupational exposure limits	
NIOSH IDLH: Immed	diately Dangerous to Life	e or Health			
Personal Protecti	ve Equipment				
Eye/face Pi	rotection	Wear appropriate protective eyegla eye and face protection regulations			
	ody protection y Protection	Wear appropriate protective gloves Follow the OSHA respirator regulation	s and clothing to prevent s tions found in 29 CFR 191 bean Standard EN 149 ap	kin exposure. 10.134 or European Standard EN proved respirator if exposure limits	

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Appearance odor Odor Threshold pH Vapor Pressure Vapor Density Viscosity Boiling Point/Range Melting Point/Range Solid White odorless No information available. 4-6 5% aq. solution No information available. No information available. No information available. 252°C / 485.6°F

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Decomposition temperature Flash Point Evaporation Rate Specific Gravity Solubility log Pow Molecular Weight Molecular Formula > 252°C
 No information available.
 No information available.
 No information available.
 Soluble in water
 No data available
 372.23
 C10 H14 N2 Na2 O8 . 2 H2 O

# **10. STABILITY AND REACTIVITY**

Conditions to Avoid

**Incompatible Materials** 

**Hazardous Decomposition Products** 

**Hazardous Polymerization** 

Hazardous Reactions .

Stable under normal conditions.

Incompatible products. Excess heat. Avoid dust formation.

Strong oxidizing agents

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

Hazardous polymerization does not occur.

None under normal processing..

# **11. TOXICOLOGICAL INFORMATION**

### Acute Toxicity

# Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	
Disodium EDTA	2 g/kg (Rat)	Not listed	Not listed	
	3.7 g/kg (Rat)			

Irritation	No information available.
Toxicologically Synergistic Products	No information available.
Chronic Toxicity	
Carcinogenicity	There are no known carcinogenic chemicals in this product
Sensitization	No information available.
Mutagenic Effects	No information available.
Reproductive Effects	No information available.

12. ECOLOGICAL INFORMATION		
Endocrine Disruptor Information	No information available	
Other Adverse Effects	See actual entry in RTECS for complete information. The toxicological properties have not been fully investigated.	
Teratogenicity	No information available.	
Developmental Effects	No information available.	

### Ecotoxicity

Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Disodium EDTA	Not listed	Leuciscus idus: LC50 > 500 ma/L 96h	EC50 = 56 mg/L 8 h	> 100 mg/L 24h

Persistence	and	Degrad	lability
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No information available

<b>Bioaccumulation/ Accumulation</b>	No information available
Mobility	No information available

# **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. REGULATORY INFORMATION**

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### **International Inventories**

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	CHINA	KECL
Ethylenediaminetetraacetic acid, disodium salt dihydrate	-	Х	-	-	-		Х	Х	Х	Х	-
Disodium EDTA	Х	Х	-	205-358- 3	-		Х	Х	Х	Х	KE- 13651 X

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 Hazardous Categorization	
Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act Not applicable

Clean Air Act Not applicable

### OSHA

Not applicable

CERCLA Not Applicable

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

# State Right-to-Know

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**

This product does not contain any DHS chemicals.

### **Other International Regulations**

Mexico - Grade

No information available

#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

#### WHMIS Hazard Class Non-controlled

# **16. OTHER INFORMATION**

Prepared By	Regulatory Affairs Thermo Fisher Scientific Tel: (412) 490-8929
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#### Disclaimer

The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

### End of MSDS