

SAFETY DATA SHEET

Ethylenediaminetetraacetic acid disodium salt

Date of Preparation: 06/10/2014

SDS #: 004-16262-01MSDS

SECTION 1: IDENTIFICATION

Product Identification: Ethylenediaminetetraacetic acid disodium salt dehydrate

$C_{10}H_{14}N_2Na_2O_8 \cdot 2H_2O$

CAS Number: 6381-92-6

Volumes: Not applicable

Catalog Numbers: AC147850010, AC147851000, AC147855000, AC409970050, AC409971000, AC409975000, S76761, BP120-1, BP120-500, NC9296989, O2793-500, S311-10, S311-100, S311-3, S311-500, S311-50KG, S312-12, S312-125LB, S312-212, S312-500, S312SAM1, S312SAM2, S312SAM3, S316-12, S316-212, S316SAM1, S316SAM2, S316SAM3

Other Designations: Disodium EDTA dihydrate, EDTA disodium dehydrate, Disodium edetate

Recommended Use: Laboratory chemicals, manufacture of substances

Restrictions: For laboratory use only.

Supplier Information:

Micromeritics Instrument Corp.	Contact:	Human Resources
4356 Communications Drive	Phone:	(770) 662-3620
Norcross, GA 30093-2901 USA	Fax:	(770) 662-3696

Manufacturer: Fisher Scientific, 1 Reagent Lane, Fair Lawn, NJ. 07410 (201) 796-7100, (800) 424-9300

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification: Not applicable

Signal word: Not applicable

Hazard Statements:

H303: May be harmful if swallowed

H316: Causes mild skin irritation

Pictograms: Not applicable

Precautionary Statements:

P233: Keep container tightly closed

P262: Do not get in eyes, on skin, or on clothing

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient Name	CAS Number	% wt
Disodium ethylenediaminetetraacetic dehydrate	6381-92-6	100

Trace Impurities:

Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH
	TWA	STEL	TWA	STEL	TWA	STEL	IDLH
Disodium ethylenediaminetetraacetic dehydrate	none estab.	none estab.	none estab.	none estab.	none estab.	none estab.	none estab.

SECTION 4: FIRST-AID MEASURES

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion: Do not induce vomiting. If victim is conscious and alert, give 2-4 cups of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other systems appear.

Notes to Physician: Treat symptomatically and supportively.

SECTION 5: FIRE-FIGHTING MEASURES

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gasses may be generated by thermal decomposition or combustion.

Extinguishing Media: In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

Flash Point: Not Applicable

SECTION 6: ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills / Leaks: Vacuum or sweep up material and place in a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

Environmental precautions: Do not let product enter drains.

SECTION 7: HANDLING AND STORAGE

Handling: Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Wash clothing before reuse.

Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Personal Protective Equipment

Eyes: 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: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Autoignition Temperature: Not Applicable

Explosion Limits,

Lower: Not Available

Upper: Not Available

Physical State: Crystalline powder

Appearance: White

Odor: None reported

pH: 5.3 @ aqueous sol.

Vapor Pressure: Not applicable

Vapor Density: Not applicable

Evaporation Rate: Not applicable

Viscosity: Not applicable

Boiling Point: Decomposes

Freezing/Melting Point: 252 oC (decomposes)

Decomposition Temperature: > 252 oC

Solubility: Soluble in water

Specific Gravity / Density: Not available

Molecular Formula: C₁₀H₁₄N₂Na₂O₈ · 2H₂O

Molecular Weight: 372.23

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability: Stable at room temperature in closed containers under normal storage and handling conditions.

Conditions to Avoid: Dust generation, excess heat.

Incompatibilities with other Materials: Strong oxidizing agents

Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, irritating and toxic fumes and gasses, carbon dioxide.

Hazardous Polymerization: Has not been reported.

SECTION 11: TOXICOLOGICAL INFORMATION

RTECS#:

CAS#: 6381-92-6: AH4410000

LD50 / LC50: Not available

CAS#: 139-33-3:

Oral, mouse: LD50 = 2500 mg/kg;

Oral, rabbit: LD50 = 2300 mg/kg;

Oral, rat: LD50 = 2g/kg;

Carcinogenicity:

CAS#: 6381-92-6: Not listed by ACGIH, IARC, NTP, or CA Prop. 65

CAS#: 139-33-3: Not listed by ACGIH, IARC, NTP, or CA Prop. 65

Epidemiology: No information available

Teratogenicity: No information available

Reproductive Effects: No information available

Mutagenicity: No information available

Neurotoxicity: No information available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Not Available

Environmental Fate: Not Available

Environmental Degradation: Not Available

Soil Absorption/Mobility: Not Available

SECTION 13: DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3.

Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed

RCRA U- Series: None listed

SECTION 14: TRANSPORT INFORMATION

DOT Transportation Data (49 CFR 172.101):

Shipping Name: Not regulated

Shipping Symbols: Not Applicable

Hazard Class: Not regulated

ID No.: Not regulated

Packing Group: Not Applicable

Label: Not Applicable

Special Provisions (172.102):

Not Applicable

Packaging Authorizations

a) **Exceptions:** Not Applicable

b) **Non-bulk Packaging:** Not Applicable

c) **Bulk Packaging:** Not Applicable

Quantity Limitations

a) **Passenger, Aircraft, or Railcar:** Not Applicable

b) **Cargo Aircraft Only:** Not Applicable

Vessel Stowage Requirements

a) **Vessel Stowage:** Not Applicable

b) **Other:** Not Applicable

Canadian TDG Hazard Class & PIN – Not regulated

SECTION 15: REGULATORY INFORMATION

UNITED STATES FEDERAL:

TSCA

CAS# 6381-92-6 is not on the TSCA inventory because it is a hydrate. It is considered to be listed if CAS number for the anhydrous form is on the inventory (40CFR720.3(u)(2)).

CAS# 139-33-3 is listed on the TSCA inventory.

Health & Safety Reporting List: None of the chemicals are on the Health and Safety Reporting List

Chemical Test Results: None of the chemicals in this product are under a Chemical Test Rule

Section 12b: None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule: None of the chemicals in this material have a SNUR under TSCA

CERCLA Hazardous Substances & Corresponding RQ's: None of the chemicals in this product have an RQ

SARA Section 302 Extremely Hazardous Substances: None of the chemicals in this product have a TPQ

SARA Codes: CAS# 6381-92-6: immediate

Section 313: No chemicals are reportable under Section 313

Clean Air Act:

This material does not contain any hazardous air pollutants

This material does not contain any Class 1 Ozone depleters

This material does not contain any Class 2 Ozone depleters

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA: None of the chemicals in this product are considered highly hazardous by OSHA.

State:

CAS# 6381-92-6 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

CAS# 139-33-3 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California Prop 65: California No significant risk Level: None of the chemicals in this product are listed.

EUROPEAN / INTERNATIONAL REGULATIONS:

European Labeling in Accordance with EC Directives

Hazard Symbols: XN

Risk Phrases: R22 – Harmful if swallowed; R36/37/38 – Irritating to eyes, respiratory system and skin

Safety Phrases: S26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S37/39 – Wear suitable gloves and eye/face protection

WGK (Water Danger / Protection):

CAS# 6381-92-6 :2

CAS# 139-33-3 :2

Canada – DSL / NDSL

CAS# 6381-92-6 is listed on Canada’s DSL list; CAS# 139-33-3 is listed on Canada’s DSL list.

Canada – WHMIS

This product has a WHMIS classification of D2B. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

SECTION 16: OTHER INFORMATION

Prepared By: Zuniga, A.

Revision Notes: Not Applicable

Additional Hazard Rating Systems: Not Applicable

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