



Micromeritics Instrument Corp. and Micromeritics Analytical Services
 www.micromeritics.com www.particletesting.com
 Surface Area - Porosity - Density - Particle Size, Shape & Count - Catalytic Activity - Surface Energy - Analytical Services

Cover Sheet



INSTRUMENT CORPORATION
 ONE MICROMERITICS DR.
 NORCROSS, GA 30093-1877 U.S.A.

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-	Formal Release	PW	3-31-2006		060001	ES SIG	
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MSDS, Ethylenediaminetetraacetic Acid, Disodium Salt, Dihydrate

SIZE	NUMBER	PAGE
A	004/16262/01MSDS	X of 5

Micromeritics Material Safety Data Sheet

Title : Ethylenediaminetetraacetic Acid
Date of Preparation : 03/29/2006

MSDS No. : 004/16262/01MSDS
Revision : -

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: Ethylenediaminetetraacetic acid, disodium salt, dihydrate

Chemical Formula: n/a

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

Supplier: Micromeritics Instrument Corp. Contact: Human Resources
1 Micromeritics Dr. Phone: (770) 662-3620
Norcross, GA 30093-1877 USA Fax: (770) 662-3696

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

Section 2 - Composition / Information on Ingredients

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

Trace Impurities:

Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH
	TWA	STEL	TWA	STEL	TWA	STEL	H IDLH

Section 3 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Potential Health Effects

Appearance: White crystalline powder

Warning – Causes eye, skin, and respiratory tract irritation. May be harmful if swallowed

Target Organs: Respiratory system, eyes, and skin

Potential Health Effects

Eye: Causes eye irritation

Skin: Causes skin irritation

Ingestion: Causes gastrointestinal irritation with nausea, vomiting and diarrhea. May be harmful if swallowed

Inhalation: Causes respiratory tract irritation

Chronic Effects: No information found

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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 cupfuls 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.

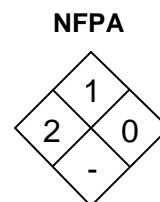
Flash Point: Not Applicable

Autoignition Temperature: Not Applicable

Explosion Limits, Lower: Not Available

Upper: Not Available

NFPA Rating: (estimated) Health: 2; Flammability: 1; Instability: 0



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.

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.

Exposure Limits:

Chemical Name	ACGIH	NIOSH	OSHA – Final PELs
Disodium ethylenediaminete-traacetate dihydrate	None listed	None listed	None listed
Disodium ethylenediaminete-traacetate anhydrous	None listed	None listed	None listed

OSHA Vacated PEL's: Disodium ethylenediaminetetraacetate dihydrate: No OSHA Vacated PELs are listed for this chemical. Disodium ethylenediaminetetraacetate anhydrous: No OSHA Vacated PELs are listed for this chemical.

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

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 °C (decomposes)

Decomposition Temperature: > 252 °C

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

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CAS#: 139-33-3: AH44375000

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

None listed

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

United States DOT: Not regulated as a hazardous material

Canada TDG: No information available

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 depletors

This material does not contain any Class 2 Ozone depletors

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: J. Pittman

Revision Notes:

Disclaimer: *The information and recommendations set forth herein are taken from sources believed to be accurate as of the date hereof; however the original manufacturer, Fisher Scientific, makes no warranty with respect to accuracy of the information or the suitability of the recommendations, and assumes no liability to any user thereof.*

MSDS Creation Date (by Fisher Scientific): 02-23-1999

Last Revision Date (by Fisher Scientific): Revision 4 – 01-23-2006