

MATERIAL SAFETY DATA SHEET
EDTPA (N,N,N',N'-Ethylenediaminetetra (methylenephosphonic acid))

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SECTION I - CHEMICAL IDENTIFICATION

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CATALOG #: E0393

NAME: N,N,N',N'-Ethylenediaminetetra (methylenephosphonic acid)

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SECTION II – COMPOSITION/INFORMATION ON INGREDIENTS

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CAS #: 1429-50-1

MF: CLNA

EC NO: 231-598-3

SYNONYMS

EDTPA

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SECTION III – HAZARDS IDENTIFICATION

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Acute Health Effects: No specific information is available regarding the toxic effects of this material for humans. However, exposure to any chemical should be kept to a minimum. Skin and eye contact may result in irritation. May be harmful if inhaled or ingested. Always follow safe industrial hygiene practices and wear proper protective equipment when handling this compound.

Chronic Health Effects: Carcinogenic effects, N/A; Mutagenic effects, N/A; Teratogenic effects, N/A; Developmental toxicity, N/A; There is no known effect from chronic exposure to this product.

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SECTION IV – FIRST-AID MEASURES

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Eye Contact: Check for and remove any contact lenses. DO NOT use an eye ointment. Flush eyes with running water for a minimum of 15 minutes, occasionally lifting the upper and lower eyelids. See medical attention. Treat symptomatically and supportively.

Skin Contact: After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. Seek medical attention. Treat symptomatically and supportively. Wash any clothing before reusing.

Inhalation: If the victim is not breathing, perform artificial respiration. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, oxygen can be administered. Seek medical attention. Treat symptomatically and supportively.

Ingestion: INDUCE VOMITTING by sticking finger in throat. Lower the head so that the vomit will not reenter the mouth and throat. If the victim is not breathing, perform artificial respiration. Loosen tight clothing such as a collar, tie, belt or waistband. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Seek immediate medical attention and, if possible, show the chemical label. Treat symptomatically and supportively.

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SECTION V – FIRE FIGHTING MEASURES

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Flammability: May be combustible at high temperature.
Flash Points: N/A
Combustion Products: These products are toxic carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂), phosphates.
Fire Hazards: No specific information is available regarding the flammability of this compound in the presence of various materials.
Explosion Hazards: Risks of explosion of the product in the presence of mechanical impact: N/A.
Risks of explosion of the product in presence of static discharge: N/A.
No additional information is available regarding the risks of explosion.
Fire Fighting Media and instructions: Small fire: Use DRY chemicals, CO₂, water spray or foam.
Large fire: Use water spray, fog or foam. DO NOT use water jet.

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SECTION VI - ACCIDENTAL RELEASE MEASURES

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Spill Cleanup Instructions: In case of a spill and/or leak, always shut off any sources of ignition, ventilate the area, and exercise caution. Use a shovel to put the material into a convenient waste disposal container. Neutralize the residue with a dilute solution of sodium carbonate. Finish cleaning the spill by rinsing any contaminated surfaces with copious amounts of water.

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SECTION VII - HANDLING AND STORAGE

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Handling and Storage: Handle with caution and minimize exposure. Keep away from heat and sources of ignition. Mechanical exhaust required. When not in use, tightly seal the container and store in a dry, cool place. Avoid excessive heat and light. DO NOT ingest. DO NOT breathe dust. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Treat symptomatically and supportively. Avoid contact with skin and eyes. Always store away from incompatible compounds such as oxidizing agents.

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SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

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Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Personal Protection: Splash goggles. Lab Coat. Dust respirator. Boots. Gloves. A MSHA/NIOSH approved respirator must be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Exposure limits: Not available

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SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

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|------------------------|---------------|-----------------------|---------------|
| Physical State at 20oC | Solid | Solubility | Not available |
| Specific Gravity | Not available | | |
| Molecular Weight | 435.13 | Partition Coefficient | Not available |
| Boiling Point | Not available | Vapor Pressure | Not available |
| Melting Point | Not available | Vapor Density | Not available |
| Refractive Index | Not available | Volatility | Not available |
| Critical Temperature | Not available | Odor | Not available |
| Viscosity | Not available | Taste | Not available |

SECTION X - STABILITY AND REACTIVITY

Stability: This material is stable if stored under proper conditions. (See section VII for instructions)

Conditions of Instability: Avoid excessive heat and light.

Incompatibilities: Reactive with oxidizing agents.

SECTION XI - TOXICOLOGICAL INFORMATION

RTECS Number: Not available

Routes of Exposure: Ingestion. Inhalation

Toxicity Data: Rat LD50 (oral) 6900 mg/kg. No additional remark.

Chronic Health Effects: Carcinogenic effects, N/A; Mutagenic effects, N/A; Teratogenic effects, N/A; Developmental toxicity, N/A; There is no known effect from chronic exposure to this product.

Acute Health Effects: No specific information is available regarding the toxic effects of this material for humans. However, exposure to any chemical should be kept to a minimum. Skin and eye contact may result in irritation. May be harmful if inhaled or ingested. Always follow safe industrial hygiene practices and wear proper protective equipment when handling this compound.

SECTION XII - ECOLOGICAL INFORMATION

Ecotoxicity: Not available

Environmental fate: Not available

SECTION XIII - DISPOSAL CONSIDERATIONS

Waste Disposal: Recycle to process, if possible. Consult your local or regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state, and local regulations when disposing of this substance.

SECTION XIV - TRANSPORT INFORMATION

DOT Classification: Not a DOT controlled substance (United States)

PIN Number: N/A

Proper Shipping Name: N/A

Packing Group (PG): N/A

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SECTION XV - REGULATORY INFORMATION

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TSCA Chemical Inventory (EPA):TSCA inventory: N,N,N',N'-Ethylenediaminetetra
(methylenephosphonic acid) LABEL
WHMIS Classification (Canada):Not controlled under WHMIS (Canada)
EINECS Number (EEC): Not available
EEC Risk Statements: Not available
Japanese Regulatory Data: Not available

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SECTION XVI - OTHER INFORMATION

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N/A = Not Applicable

The information published in this Material Safety Data Sheet has been compiled from our experience and data presented in various technical publications. It is the user's responsibility to determine the suitability of this information for adoption of necessary safety precautions. We reserve the right to revise Material Safety Data Sheets periodically as new information becomes available.