SAFETY DATA SHEET

1. Identification

Product identifier: EDTA DISODIUM SALT DIHYDRATE

Other means of identification
Product No.: 7727, 7565, 8995, 8994, 8993, 4040, 1395, 4931

Recommended use and restriction on use
Recommended use: Not available.
Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information

Manufacturer
  Company Name: Avantor Performance Materials, Inc.
  Address: 3477 Corporate Parkway, Suite 200
            Center Valley, PA 18034
  Telephone: Customer Service: 855-282-6867
  Fax: Contact Person: Environmental Health & Safety
  e-mail: info@avantormaterials.com

Emergency telephone number:
  24 Hour Emergency: 908-859-2151

Chemtrec: 800-424-9300

2. Hazard(s) identification

Hazard Classification
Not classified

OSHA hazard(s)
Combustible dust

Label Elements
Hazard Symbol: No symbol
Signal Word: No signal word.
Hazard Statement: Not applicable
Precautionary Statement: Not applicable

Other hazards which do not result in GHS classification: None.

3. Composition/information on ingredients

Substances
Composition Comments: The components are not hazardous or are below required disclosure limits.
4. First-aid measures

**General information:** Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.

**Ingestion:** Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

**Inhalation:** Move to fresh air. Get medical attention if symptoms persist.

**Skin Contact:** Rinse with water. Get medical attention if symptoms occur.

**Eye contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/attention.

Most important symptoms/effects, acute and delayed

**Symptoms:** Irritating to eyes, respiratory system and skin.

Indication of immediate medical attention and special treatment needed

**Treatment:** Treat symptomatically. Symptoms may be delayed.

5. Fire-fighting measures

**General Fire Hazards:** High concentrations of dust may form explosive mixture with air.

**Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media:** Extinguish with foam, carbon dioxide, dry powder or water fog.

**Unsuitable extinguishing media:** None known.

**Specific hazards arising from the chemical:** Dust may form explosive mixture with air.

**Special protective equipment and precautions for firefighters**

**Special fire fighting procedures:** Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. In case of fire and/or explosion do not breathe fumes.

**Special protective equipment for fire-fighters:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:** Keep unauthorized personnel away. Keep upwind. Ventilate closed spaces before entering them. Avoid inhalation of dust. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

**Methods and material for containment and cleaning up:** Avoid dust formation. Sweep up and place in a clearly labeled container for chemical waste. Clean surface thoroughly to remove residual contamination.
Notification Procedures: Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. Inform authorities if large amounts are involved.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling: Avoid generation and spreading of dust. Dust may form explosive mixture with air. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Use non-sparking hand tools and explosion-proof electrical equipment. Ground container and transfer equipment to eliminate static electric sparks. Avoid breathing dust or vapor. Avoid contact with eyes, skin, and clothing. Use only with adequate ventilation. Wash hands thoroughly after handling. See Section 8 of the SDS for Personal Protective Equipment.

Conditions for safe storage, including any incompatibilities: Keep container tightly closed. Store in a well-ventilated place.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits
None of the components have assigned exposure limits.

Appropriate Engineering Controls
No data available.

Individual protection measures, such as personal protective equipment

General information: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Eye/face protection: Wear safety glasses with side shields (or goggles).

Skin Protection
Hand Protection: Chemical resistant gloves

Other: Wear suitable protective clothing.

Respiratory Protection: In case of inadequate ventilation use suitable respirator.

Hygiene measures: Provide eyewash station and safety shower. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state: Solid Solid
Form: Crystalline Powder. Crystalline Powder.
Color: White, White
Odor: Odorless, Odorless
Odor threshold: No data available.
pH: No data available.
Melting point/freezing point: 252 °C
Initial boiling point and boiling range: No data available.
Flash Point: Not applicable
Evaporation rate: No data available.
Flammability (solid, gas): No data available.

Upper/lower limit on flammability or explosive limits
  Flammability limit - upper (%): No data available.
  Flammability limit - lower (%): No data available.
  Explosive limit - upper (%): No data available.
  Explosive limit - lower (%): No data available.

Vapor pressure: No data available.
Vapor density: No data available.
Relative density: No data available.

Solubility(ies)
  Solubility in water: Soluble
  Solubility (other): No data available.

Partition coefficient (n-octanol/water): No data available.
Auto-ignition temperature: No data available.
Decomposition temperature: No data available.
Viscosity: No data available.

Other information
  Molecular weight: 372.24 g/mol (C10H14N2O8.2H2O.2Na)

10. Stability and reactivity

Reactivity: No dangerous reaction known under conditions of normal use.
Chemical Stability: Material is stable under normal conditions.

Possibility of Hazardous Reactions:
The substance is hygroscopic and will absorb water by contact with the moisture in the air. Hazardous polymerization does not occur.

Conditions to Avoid:
  Avoid dust formation. Excessive heat.

Incompatible Materials:
  Strong oxidizing agents. Strong oxidizing agents.

Hazardous Decomposition Products:
  Thermal decomposition may produce oxides of carbon and nitrogen. Sodium oxides

11. Toxicological information

Information on likely routes of exposure
  Ingestion: May cause irritation of the gastrointestinal tract.
  Inhalation: May cause irritation to the respiratory system.
  Skin Contact: May cause irritation.
  Eye contact: May irritate eyes.
Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

**Oral**
Product: LD 50 (Rat): > 2,000 mg/kg
LD 50 (Rat): > 2,000 mg/kg

**Dermal**
Product: No data available.

**Inhalation**
Product: No data available.

**Repeated Dose Toxicity**
Product: No data available.

**Skin Corrosion/Irritation**
Product: May cause skin irritation.

**Serious Eye Damage/Eye Irritation**
Product: May irritate eyes.

**Respiratory or Skin Sensitization**
Product: Not a skin sensitizer.

**Carcinogenicity**
Product: This substance has no evidence of carcinogenic properties.

- IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:
  No carcinogenic components identified

- US. National Toxicology Program (NTP) Report on Carcinogens:
  No carcinogenic components identified

  No carcinogenic components identified

**Germ Cell Mutagenicity**

- In vitro
  Product: No mutagenic components identified

- In vivo
  Product: No mutagenic components identified

**Reproductive Toxicity**
Product: No components toxic to reproduction

**Specific Target Organ Toxicity - Single Exposure**
Product: None known.

**Specific Target Organ Toxicity - Repeated Exposure**
Product: None known.

**Aspiration Hazard**
Product: Not classified

**Other Effects:**
None known.
12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish
Product: No data available.

Aquatic Invertebrates
Product: No data available.

Chronic hazards to the aquatic environment:

Fish
Product: No data available.

Aquatic Invertebrates
Product: No data available.

Toxicity to Aquatic Plants
Product: No data available.

Persistence and Degradability

Biodegradation
Product: There are no data on the degradability of this product.

BOD/COD Ratio
Product: No data available.

Bioaccumulative Potential
Bioconcentration Factor (BCF)
Product: No data available on bioaccumulation.

Partition Coefficient n-octanol / water (log Kow)
Product: No data available.

Mobility in Soil: The product is water soluble and may spread in water systems.

Other Adverse Effects: The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

13. Disposal considerations

Disposal instructions: Discharge, treatment, or disposal may be subject to national, state, or local laws.

Contaminated Packaging: Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT
Not regulated.

IMDG
Not regulated.

IATA
Not regulated.

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):
None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

[] Acute (Immediate) [] Chronic (Delayed) [] Fire [] Reactive [] Pressure Generating

SARA 302 Extremely Hazardous Substance
None present or none present in regulated quantities.

SARA 304 Emergency Release Notification
None present or none present in regulated quantities.

SARA 311/312 Hazardous Chemical
None present or none present in regulated quantities.

SARA 313 (TRI Reporting)
None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)
None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):
None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65
No ingredient regulated by CA Prop 65 present.

US. New Jersey Worker and Community Right-to-Know Act
No ingredient regulated by NJ Right-to-Know Law present.

US. Massachusetts RTK - Substance List
No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances
No ingredient regulated by PA Right-to-Know Law present.

US. Rhode Island RTK
No ingredient regulated by RI Right-to-Know Law present.
**Inventory Status:**

- **Australia AICS:** On or in compliance with the inventory
- **Canada DSL Inventory List:** On or in compliance with the inventory
- **EINECS, ELINCS or NLP:** Not in compliance with the inventory
- **Japan (ENCS) List:** On or in compliance with the inventory
- **China Inv. Existing Chemical Substances:** On or in compliance with the inventory
- **Korea Existing Chemicals Inv. (KECI):** Not in compliance with the inventory
- **Canada NDSSL Inventory:** On or in compliance with the inventory
- **Philippines PICCS:** Not in compliance with the inventory
- **US TSCA Inventory:** On or in compliance with the inventory
- **New Zealand Inventory of Chemicals:** On or in compliance with the inventory
- **Japan ISHL Listing:** On or in compliance with the inventory
- **Japan Pharmacopoeia Listing:** Not in compliance with the inventory

### 16. Other information, including date of preparation or last revision

**NFPA Hazard ID**

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<thead>
<tr>
<th>Flammability</th>
<th>Health</th>
<th>Reactivity</th>
<th>Special hazard</th>
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<tr>
<td>0</td>
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Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

**Issue Date:** 01-29-2015

**Revision Date:** No data available.

**Version #:** 2.1

**Further Information:** No data available.
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