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# SAFETY DATA SHEET

According to US Regulation 29 CFR 1910.1200 (HazCom 2012)

# 1. Identification

Product identifier: EDTA, Disodium Salt, Dihydrate

Other means of identification

**Product No.:** 1395, 4040, 4931, 7565, 7727, 8993, 8994, 8995, H400, H410,

H420

Recommended restrictions

Recommended use: For Laboratory, Research or Manufacturing Use.

Restrictions on use: Not determined.

Details of the supplier of the safety data sheet

Company Name: Avantor Performance Materials, LLC

Address: 100 Matsonford Rd, Suite 200

Radnor, PA 19087

Telephone: Customer Service: 855-282-6867

Contact Person: Product Information Compliance E-mail: Product Information Compliance info@avantormaterials.com

**Emergency telephone number:** 

CHEMTREC: 1-800-424-9300 within US and Canada

# 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

Statements

Not applicable

Hazard(s) not otherwise classified (HNOC):

None.



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# 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/doctor 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.

Hazards: None known.

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:

Use water spray to keep fire-exposed containers cool. Move containers from fire area if you can do so without risk. 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



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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 nonsparking 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.



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**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

Form: Crystalline powder.

Color: White Odor: Odorless

Odor threshold: No data available. PH: No data available.

Melting point/freezing point: 252 °C

Initial boiling point and boiling range:

Flash Point:

Evaporation rate:

Flammability (solid, gas):

No data available.

No data available.

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. Density: No data available. Relative density: No data available.

Solubility(ies)

Solubility in water: Soluble

Solubility (other):

Partition coefficient (n-octanol/water):

Auto-ignition temperature:

Decomposition temperature:

Viscosity:

No data available.

No data available.

No data available.

No data available.

Other information

Molecular weight: 372.24 g/mol (C10H16N2O8.2H2O.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.

**Hazardous Decomposition** 

Products:

Thermal decomposition may produce oxides of carbon and nitrogen.

Sodium oxides

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## 11. Toxicological information

Information on likely routes of exposure

**Inhalation:** May cause irritation to the respiratory system.

**Skin Contact:** May cause irritation.

**Eye contact:** May irritate eyes.

**Ingestion:** May cause irritation of the gastrointestinal tract.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: LD 50 (Rat): 3,100 mg/kg

**Dermal** 

**Product:** No data available.

Inhalation

**Product:** No data available.

Repeated dose toxicity

**Product:** None known.

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

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

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



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**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.



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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)

None present or none present in regulated quantities.

## 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**

Not listed.

#### **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 Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

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.



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## **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.

## International regulations

## Montreal protocol

Not applicable

#### Stockholm convention

Not applicable

## **Rotterdam convention**

Not applicable

# **Kyoto protocol**

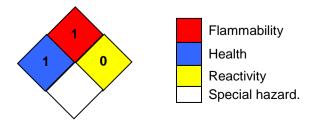
Not applicable

# **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: On or in compliance with the inventory Japan (ENCS) List: On or in compliance with the inventory On or in compliance with the inventory China Inv. Existing Chemical Substances: Korea Existing Chemicals Inv. (KECI): On or in compliance with the inventory Philippines PICCS: On or 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 On or in compliance with the inventory Mexico INSQ: Taiwan Chemical Substance Inventory: On or in compliance with the inventory

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

#### **NFPA Hazard ID**





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Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

**Issue Date:** 01-03-2019

**Revision Information:** Not relevant.

Version #: 2.3

**Source of information:** Sources of information used in preparing this SDS included one or more of

the following: results from in house or supplier toxicology studies, information from the Toxicology Data Network (TOXNET), European Chemical Agency (ECHA) substance dossiers, IARC Monographs, US National Toxicology Program data, the Agency for Toxic Substances and Disease Registry, other

manufacturer's SDSs and other sources, as appropriate.

Further Information: No data available.

**Disclaimer:** The information provided in this Safety Data Sheet (SDS) was prepared

based on data believed to be accurate as of the date of this SDS. TO THE GREATEST EXTENT PERMITTED BY LAW, AVANTOR PERFORMANCE

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