

# Safety Data Sheet

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

## SECTION 1: Identification

### Product identifier

Trade name/designation:	Edetate Disodium U.S.P.
Product No.:	8994
Synonymes:	none

### Relevant identified uses of the substance or mixture and uses advised against

<b>Recommended Use</b>	For Laboratory, Research or Manufacturing Use.
<b>Uses advised against</b>	Not determined.

### Details of the supplier of the safety data sheet

#### Supplier

##### Avantor Performance Materials, LLC.

Street	100 Matsonford Rd, Suite 200
Postal code/City	Radnor, PA 19087, United States
Telephone	+1-855-282-6867
Telefax:	+1-610-573-2610

#### Emergency phone number

Telephone	+1-800-424-9300 (Chemtrec, 24 hrs/day, 7 days/week, USA and Canada)
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#### Preparation Information

Product Information Compliance

E-mail	SDS@avantorsciences.com
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## SECTION 2: Hazard identification

### Classification of the substance or mixture

#### Label elements

##### Health hazards

Acute toxicity, category 4, inhalation

Specific target organ toxicity (repeated exposure), category 2<sup>(1)</sup>

Combustible Dusts - Category 1

##### Target Organs

(1) respiratory tract

#### Hazard pictograms



#### Signal word: Warning

##### Hazard statements

H332 - Harmful if inhaled.

H373 - May cause damage to organs through prolonged or repeated exposure.  
May form combustible dust concentrations in air.

##### Precautionary statements

###### Prevention:

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P271 - Use only outdoors or in a well-ventilated area.

**Prevent dust accumulation to minimise explosion hazard.**

###### Response:

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 - Call a POISON CENTER/doctor/.../if you feel unwell.

P314 - Get medical advice/attention if you feel unwell.

###### Disposal:

P501 - Dispose of contents/container to ...

#### Hazards not otherwise classified (HNOC)

none

### SECTION 3: Composition / information on ingredients

#### Substances

Substance name	Edetate Disodium
Molecular formula	$C_{10}H_{14}N_2Na_2O_8 \cdot 2H_2O$
Molecular weight	372.24 g/mol
CAS No.	6381-92-6

### SECTION 4: First aid measures

#### General information

IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician. If unconscious but breathing normally, place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps. Change contaminated, saturated clothing. Do not leave affected person unattended.

#### In case of inhalation

Call a POISON CENTER/doctor. Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

#### In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. In case of skin reactions, consult a physician.

#### After eye contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye. Remove contact lenses, if present and easy to do. Continue rinsing.

#### In case of ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting. Give nothing to eat or drink.

#### Most important symptoms/effects, acute and delayed

no data available

#### Indication of any immediate medical attention and special treatment needed

No special information on medical attention and special treatment available.

### SECTION 5: Fire fighting measures

#### Extinguishing media

##### Suitable extinguishing media

The product itself does not burn.

Co-ordinate fire-fighting measures to the fire surroundings.

#### Extinguishing media which must not be used for safety reasons

no restriction

#### Specific hazards arising from the chemical

In case of fire may be liberated:

Carbon monoxide

Carbon dioxide (CO<sub>2</sub>)

Nitrogen oxides (NO<sub>x</sub>)

Sodium oxides

**Advice for firefighters**

In case of fire and/or explosion do not breathe fumes.  
Protective equipment and precautions for firefighters  
Wear a self-contained breathing apparatus and chemical protective clothing.

**SECTION 6: Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Avoid dust formation. Avoid contact with skin, eyes and clothes. Wear personal protection equipment (refer to section 8).

**Environmental precautions**

Do not allow to enter into surface water or drains.

**Methods and material for containment and cleaning up**

Spilled product must never be returned to the original container for recycling. Take up mechanically, placing in appropriate containers for disposal. Avoid dust formation.

**Additional information**

Clear spills immediately.

**SECTION 7: Handling and storage****Precautions for safe handling**

Avoid dust formation.  
Avoid inhalation of the product.  
Use extractor hood (laboratory).

Wash hands before breaks and after work. Avoid contact with eyes and skin. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

**Conditions for safe storage, including any incompatibilities**

Recommended storage temperature: Ambient temperature  
Keep container tightly closed and in a well-ventilated place.

**SECTION 8: Exposure controls/personal protection****Control parameters**

Does not contain substances above concentration limits fixing an occupational exposure limit.

**Engineering controls****Appropriate engineering controls**

Technical measures and the application of suitable work processes have priority over personal protection equipment. If handled uncovered, arrangements with local exhaust ventilation have to be used.

### **Personal protection equipment (PPE)**

Wear suitable protective clothing. When handling with chemical substances, protective clothing must be worn.

#### *Eye/face protection*

Eye glasses with side protection

#### *Skin protection*

Wear suitable gloves. When handling with chemical substances, protective gloves must be worn. In the case of wanting to use the gloves again, clean them before taking off and air them well. Check leak tightness/impermeability prior to use.

#### By short-term hand contact

Suitable material:	NBR (Nitrile rubber)
Thickness of the glove material:	0,12 mm
Breakthrough time:	> 480 min

#### By long-term hand contact

Suitable material:	NBR (Nitrile rubber)
Thickness of the glove material:	0,38 mm
Breakthrough time:	> 480 min

#### *Respiratory protection*

Usually no personal respirative protection necessary. Required when dusts are generated. Wear respiratory protection. Recommended filter type: P1

#### *Additional information*

Wash hands before breaks and after work. Avoid contact with eyes and skin. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

#### *Environmental exposure controls*

no data available

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

(a) Appearance	
Physical state:	solid
Color:	white
(b) Odor:	no data available
(c) Odor threshold:	no data available

### Safety relevant basic data

(d) pH:	4-5 (50 g/l; H <sub>2</sub> O; 20 °C)
(e) Melting point/freezing point:	248 °C
(f) Initial boiling point and boiling range:	no data available
(g) Flash point:	100 °C
(h) Evaporation rate:	no data available
(i) Flammability (solid, gas):	not applicable
(j) Flammability or explosive limits	
Lower explosion limit:	no data available
Upper explosion limit:	no data available
(k) Vapor pressure:	no data available
(l) Vapor density:	no data available
(m) Density:	no data available
(n) Solubility(ies)	
Water solubility:	100 g/l (20 °C)
Soluble (g/L) in Ethanol:	no data available
(o) Partition coefficient: n-octanol/water:	-11.7 (20 °C; calculated)
(p) Auto-ignition temperature:	no data available
(q) Decomposition temperature:	not applicable
(r) Viscosity	
Kinematic viscosity:	no data available
Dynamic viscosity:	no data available
(s) Explosive properties:	not applicable
(t) Oxidising properties:	not applicable

### Other information

Bulk density:	no data available
Refraction index:	no data available
Dissociation constant:	no data available
Surface tension:	no data available
Henry's Law Constant:	no data available

## SECTION 10: Stability and reactivity

### Reactivity

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

### Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

**Possibility of hazardous reactions**

Reacts with strong oxidizing agents.

**Conditions to avoid**

Keep away from heat.

**Incompatible materials**

No information available.

**Hazardous decomposition products**

no data available

**SECTION 11: Toxicological information****Information on toxicological effects****Acute effects**

*Acute oral toxicity:*

LD50: < 2000 mg/kg - Rat - (Merck KGaA)

*Acute dermal toxicity:*

no data available

*Acute inhalation toxicity:*

no data available

**Irritant and corrosive effects**

*Primary irritation to the skin:*

not applicable

*Irritation to eyes:*

not applicable

*Irritation to respiratory tract:*

not applicable

**Respiratory or skin sensitization**

In case of skin contact: not sensitizing

In case of inhalation: not sensitizing

**STOT-single exposure**

not applicable

**STOT-repeated exposure**

May cause damage to organs through prolonged or repeated exposure.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)****Carcinogenicity**

No indication of human carcinogenicity.

**Germ cell mutagenicity**

No indications of human germ cell mutagenicity exist.

**Reproductive toxicity**

No indications of human reproductive toxicity exist.

**Aspiration hazard**

not applicable

**Other adverse effects**

no data available

**SECTION 12: Ecological information****Ecotoxicity****Fish toxicity:**

no data available

**Daphnia toxicity:**

no data available

**Algae toxicity:**

no data available

**Bacteria toxicity:**

no data available

**Persistence and degradability**

no data available

**Bioaccumulative potential**

Partition coefficient: n-octanol/water: -11.7 (20 °C; berechnet)

**Mobility in soil:**

no data available

**Other adverse effects**

no data available

**SECTION 13: Disposal considerations****Waste treatment methods****Appropriate disposal / Product**

Dispose according to legislation. Consult the appropriate local waste disposal expert about waste disposal. Send to a hazardous waste incinerator facility under observation of official regulations.

**Appropriate disposal / Package**

Dispose according to legislation. Handle contaminated packages in the same way as the substance itself.

**SECTION 14: Transport information****Land transport (DOT)**

No dangerous good in sense of this transport regulation.

**Sea transport (IMDG)**

No dangerous good in sense of this transport regulation.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code not relevant

**Air transport (ICAO-TI / IATA-DGR)**

No dangerous good in sense of this transport regulation.

**SECTION 15: Regulatory information**

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

**National regulations****Toxic Substances Control Act (TSCA)**

Not listed.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**SARA 313 Components**

Not listed.

**Massachusetts Right To Know Components**

Not listed.

**Pennsylvania Right To Know Components**

Not listed.

**New Jersey Right To Know Components**

Not listed.

**California Prop. 65 Components**

Not listed.

## SECTION 16: Other information

### Abbreviations and acronyms

ACGIH - American Conference of Governmental Industrial Hygienists  
DOT - Department of Transportation  
IARC - International Agency for Research on Cancer  
IATA-DGR - International Air Transport Association-Dangerous Goods Regulations  
ICAO-TI - International Civil Aviation Organization-Technical Instructions  
IMDG - International Maritime Code for Dangerous Goods  
LTV - Long Term Value  
NIOSH - National Institute for Occupational Safety and Health  
NTP - National Toxicology Program  
OSHA - Occupational Safety & Health Administration  
PBT - Persistent, Bioaccumulative and Toxic  
PEL - Permissible Exposure Limit  
STV - Short Term Value  
SVHC - Substances of Very High Concern  
TDG - Transport of Dangerous Goods  
TLV - Threshold Limit Value  
vPvB - very Persistent, very Bioaccumulative

### Key literature references and sources for data

This Safety Data Sheet has been prepared based on information available for public as TOXNET information, European Chemicals Agency (ECHA) substance dossier, papers from international cancer research institutes (IARC Monographs), U.S. National Toxicology Program data, U.S. Agency for Toxic Substances and Disease Control (ATSDR), PubChem websites and SDS from our raw material manufacturers.

**Revision date**  
15.08.2022

**Version**  
2.4

**Print date**  
2022-08-15

### Additional information

Indication of changes:

Section 2 & 3

If you need an explanation of the change, contact the supplier (SDS@avantorsciences.com).

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