

# Safety Data Sheet

acc. to OSHA HCS

Printing date 08/17/2022

Reviewed on 08/17/2022

## 1 Identification

- **Product identifier**
- **Trade name:** Anti-Corrosive Additive
- **Article number:** 43392
- **Application of the substance / the mixture:** Laboratory chemicals
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
SERVA Electrophoresis GmbH  
Carl-Benz-Str. 7  
D-69115 Heidelberg  
Tel.: +49 6221 13840-0  
FAX: +49 6221 13840-10  
msds.info@serva.de
- **Information department:** Product Safety department Tel.: +49 6221 13840-35
- **Emergency telephone number:**  
Medical Emergency Information in case of poisoning:  
Poison Information Center Mainz - Phone: +49 (0) 6131 19240  
(advisory service in German or English language)



## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

- **Label elements**
- **GHS label elements**  
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms:** GHS07, GHS08
- **Signal word:** Warning
- **Hazard-determining components of labeling:**  
Ethanediol
- **Hazard statements:**  
Harmful if swallowed.  
May cause damage to organs through prolonged or repeated exposure.
- **Precautionary statements**  
Do not breathe mist/vapours/spray.  
Wash thoroughly after handling.  
If swallowed: Call a poison center/doctor if you feel unwell.  
Rinse mouth.  
Get medical advice/attention if you feel unwell.  
Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



Health = 0

Fire = 1

Reactivity = 0

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· **HMIS-ratings (scale 0 - 4)**

HEALTH	1	Health = 1
FIRE	1	Fire = 1
REACTIVITY	0	Reactivity = 0

· **Other hazards**· **Results of PBT and vPvB assessment:**

- **PBT:** PBT - assessment not available.
- **vPvB:** vPvB - assessment not available.

### 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**· **Description:** Mixture of the substances listed below with nonhazardous additions.· **Dangerous components:**

107-21-1	Ethanediol	80-100%
17265-14-4	Disodium sebacate	2.5-7%
29385-43-1	methyl-1H-benzotriazole	0.1-0.2%
64665-57-2	sodium 4(or 5)-methyl-1H-benzotriazolide	0.1-0.2%

· **Additional information:**

the product contains no further substances which shall be indicated according to REACH-Regulation (Regulation (EC) No. 1907/2006).

For the wording of the listed hazard phrases refer to section 16.

### 4 First-aid measures

· **Description of first aid measures**· **After inhalation:** Supply fresh air; consult doctor in case of complaints.· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly. Consult doctor if you feel unwell.

· **After eye contact:**

Rinse opened eye for several minutes under running water. Remove present contact lenses, if easy to do, and continue rinsing. Consult ophthalmologist In case of complaints.

· **After swallowing:**

Rinse out mouth and then drink plenty of water.

Immediately call a doctor.

· **Most important symptoms and effects, both acute and delayed** No further relevant information available.· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### 5 Fire-fighting measures

· **Extinguishing media**· **Suitable extinguishing agents:**CO<sub>2</sub> extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.· **Special hazards arising from the substance or mixture**

In case of fire formation of harmful vapours and of fumes/ mist is possible.

· **Advice for firefighters**· **Protective equipment:** Wear self-contained respiratory protective device.

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## 6 Accidental release measures

### · Personal precautions, protective equipment and emergency procedures

Wear protective clothing.

Ensure adequate ventilation

### · Environmental precautions: Do not allow to enter sewers/ surface or ground water.

### · Methods and material for containment and cleaning up

Dispose contaminated material as waste according to item 13.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

### · Protective Action Criteria for Chemicals

#### · PAC-1:

107-21-1	Ethanediol	30 ppm
29385-43-1	methyl-1H-benzotriazole	2 mg/m <sup>3</sup>
64665-57-2	sodium 4(or 5)-methyl-1H-benzotriazolide	1.9 mg/m <sup>3</sup>

#### · PAC-2:

107-21-1	Ethanediol	150 ppm
29385-43-1	methyl-1H-benzotriazole	22 mg/m <sup>3</sup>
64665-57-2	sodium 4(or 5)-methyl-1H-benzotriazolide	21 mg/m <sup>3</sup>

#### · PAC-3:

107-21-1	Ethanediol	900 ppm
29385-43-1	methyl-1H-benzotriazole	130 mg/m <sup>3</sup>
64665-57-2	sodium 4(or 5)-methyl-1H-benzotriazolide	130 mg/m <sup>3</sup>

### · Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

### · Precautions for safe handling: Ensure good ventilation/exhaustion at the workplace.

### · Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.

### · Conditions for safe storage, including any incompatibilities

#### · Storage:

#### · Requirements to be met by storerooms and receptacles: No special requirements.

#### · Information about storage in one common storage facility: Not required.

#### · Further information about storage conditions: Keep receptacle tightly sealed and store in dry conditions.

#### · Specific end use(s): No further relevant information available.

## 8 Exposure controls/personal protection

### · Control parameters

### · Components with limit values that require monitoring at the workplace:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

#### 107-21-1 Ethanediol (80-100%)

TLV	Short-term value: 10** mg/m <sup>3</sup> , 50* ppm Long-term value: 25* ppm *vapor fraction.**inh. fraction, aerosol only, A4
WEEL	I (2)

### · Additional information: The lists that were valid during the creation were used as basis.

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- **Exposure controls**
- **Additional information about design of technical systems:** No further data; see item 7.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
  - Keep away from foodstuffs, beverages and feed.
  - Store protective clothing separately.
  - Immediately remove all soiled and contaminated clothing.
  - Avoid contact with the eyes and skin.
  - Wash hands before breaks and at the end of work.
- **Breathing equipment:**
  - Short term filter device:
  - Filter A/P2
- **Protection of hands:**
  - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
  - Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
  - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves:**
  - The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
  - The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material:**
  - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**
  - Nitrile rubber, NBR
  - Chloroprene rubber, CR
- **Eye protection:** Safety glasses
- **Body protection:** Protective work clothing

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information:**
- **Color:** Pink
- **Odor:** Recognizable
- **Odor threshold:** no information available
- **Melting point/Melting range:** -16 °C (3.2 °F)
- **Boiling point/Boiling range:** >160 °C (>320 °F)
- **Flammability (solid, gaseous):** no information available
- **Explosion limits:**
- **Lower:** 3.2 Vol %
- **Upper:** 43 Vol %
- **Flash point:** >124 °C (>255.2 °F)
- **Decomposition temperature:** no information available
- **pH-value at 20 °C (68 °F):** 8.2-8.6
- **Viscosity:**
- **Kinematic viscosity:** Not determined.
- **Dynamic viscosity:** no information available
- **Solubility in / Miscibility with:**
- **Water at 20 °C (68 °F):** 1000 g/l

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- **Partition coefficient (n-octanol/water):** no information available
- **Vapor pressure at 20 °C (68 °F):** 0.053 hPa (0 mm Hg)
- **Density at 20 °C (68 °F):** 1.122-1.125 g/cm<sup>3</sup> (9.36309-9.38813 lbs/gal)
- **Relative density:** Not determined.

- **Other information**
- **Appearance:**
- **Form:** Solution
- **Important information on protection of health and environment, and on safety:**
- **Ignition temperature:** 410 °C (770 °F)
- **Danger of explosion:** Not determined.
- **VOC %:**
- **VOC content:** 0.00 %

## 10 Stability and reactivity

- **Reactivity:** No further relevant informations available
- **Chemical stability:**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:**  
Avoid contact with:  
Strong oxidizers  
hydroxides of alkaline metals
- **Hazardous decomposition products:** In case of fire: See Section 5

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:** Harmful if swallowed.

· **LD/LC50 values that are relevant for classification:**

### 107-21-1 Ethanediol

Oral	LD50	4,700 mg/kg (rat)
Dermal	LD50	10,620 mg/kg (rbt)
	LC50/96h	>18,500 mg/l (trout)

- **Specific target organ toxicity - repeated exposure:**  
May cause damage to organs through prolonged or repeated exposure.
- **Other information (about experimental toxicology)**  
experience concerning human exposure to 1,2-ethanediol:  
the substance may cause adverse effects on kidneys through repeated oral exposure or through repeated dermal exposure to large amounts.
- **Additional toxicological information:**

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

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· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

## 12 Ecological information

- **Toxicity:**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability:**  
DOC decrease >70% (28 d)  
Easily biodegradable
- **Bioaccumulative potential:** The bioaccumulative potential is considered to be low.
- **Mobility in soil:** No further relevant information available.
- **Results of PBT and vPvB assessment:**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects:**
- **Additional ecological information:**
- **General notes:**  
Do not allow product to reach ground water, water course or sewage system.  
Water hazard class 1 (Self-assessment): slightly hazardous for water

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
Disposal must be made according to official regulations.  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:**  
Disposal of uncleaned packagings must be made according to official regulations in the same manner as the product.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14 Transport information

- |  |                 |
|--|-----------------|
| · <b>UN-Number</b>   |                 |
| · <b>ADR, IMDG, IATA</b>   | Void            |
| · <b>UN proper shipping name</b>   |                 |
| · <b>ADR, IMDG, IATA</b>   | Void            |
| · <b>Transport hazard class(es)</b>  |                 |
| · <b>ADR, IMDG, IATA</b>   |                 |
| · <b>Class:</b>  | Void            |
| · <b>Label:</b>  | -               |
| · <b>Packing group</b>   |                 |
| · <b>ADR, IMDG, IATA</b>   | Void            |
| · <b>Environmental hazards</b>   |                 |
| · <b>Marine pollutant:</b>   | No              |
| · <b>Special precautions for user</b>  | Not applicable. |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable. |

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· **Transport/Additional information:** Not dangerous according to the above specifications.

## 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**  
No further relevant information available.

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

107-21-1 Ethanediol

· **TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

· **Hazardous Air Pollutants**

107-21-1 Ethanediol

· **Proposition 65**

None of the ingredients is listed.

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

107-21-1 Ethanediol

· **Carcinogenicity categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value)**

107-21-1 Ethanediol

A4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms** GHS07, GHS08

· **Signal word** Warning

· **Hazard-determining components of labeling:**

Ethanediol

· **Hazard statements**

Harmful if swallowed.

May cause damage to organs through prolonged or repeated exposure.

· **Precautionary statements**

Do not breathe mist/vapours/spray.

Wash thoroughly after handling.

If swallowed: Call a poison center/doctor if you feel unwell.

Rinse mouth.

Get medical advice/attention if you feel unwell.

Dispose of contents/container in accordance with local/regional/national/international regulations.

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· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

· **Department issuing SDS:** Product safety department· **Contact:** +49 6221 13840-35· **Date of preparation / last revision** 08/17/2022 / 2· **Abbreviations and acronyms:**

*RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)*

*ICAO: International Civil Aviation Organisation*

*PBT: persistent, bioaccumulative, toxic substance (REACH)*

*vPvB: very persistent, very bioaccumulative substance (REACH)*

*REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals*

*CLP: Regulation on classification, labelling and packaging of substances and mixtures*

*bw: body weight*

*ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*IATA: International Air Transport Association*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*ELINCS: European List of Notified Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*NFPA: National Fire Protection Association (USA)*

*HMIS: Hazardous Materials Identification System (USA)*

*VOC: Volatile Organic Compounds (USA, EU)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*NIOSH: National Institute for Occupational Safety*

*OSHA: Occupational Safety & Health*

*TLV: Threshold Limit Value*

*PEL: Permissible Exposure Limit*

*REL: Recommended Exposure Limit*

*Acute Tox. 4: Acute toxicity – Category 4*

*STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2*