

# Safety data sheet

# Electrolyte AE 7

according to Regulation (EC) No. 1907/2006 (REACH)

## 1. Identification of the substance/preparation and of the company/undertaking

### Identification of the substance or preparation

**Name of product: Electrolyte AE 7**

**Material number: 22.007**

### Use of the substance/preparation

Electrolytic marking technology

### Company/undertaking identification

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## 2. Hazards identification

### Classification according to directive 67/548/EEC or 1999/45/EC



Xi

irritant  
 R43

May cause sensitization by skin contact.

### Critical hazard to man and environment:

Electrolytic vapours may form during the electrochemical process.

## 3. Composition/information on ingredients

### Chemical characterization (preparation)

mixture of water/mineral salt and complexing agent

Dangerous ingredients:				
CAS-No.	EINECS / ELINCS	Chemical name	Content	Classification
6484-52-2	229-347-8	Ammonium nitrate	5-10 %	O; R 8, 9
55965-84-9	-	Mixture of: 5-Chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) [EC-Nr. 247-500-7 + 220-239-6]	0,0015-0,06 %	T, N; R 23/24/25, 34, 43, 50/53

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### 4. First aid measures

<b>Following inhalation:</b>	Provide fresh air. In case of respiratory difficulties seek medical attention.
<b>After skin contact:</b>	Change contaminated clothing. After contact with skin, wash immediately with plenty of water. In case of skin reactions, consult a physician.
<b>After eye contact:</b>	Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. In case of troubles or persistent symptoms, consult an ophthalmologist.
<b>After swallowing:</b>	Rinse mouth immediately and drink large quantities of water. If you feel unwell, seek medical advice.

### 5. Fire fighting measures

<b>Suitable extinguishing media:</b>	Product is non-combustible. Extinguishing materials should therefore be selected according to surroundings.
<b>Special exposure hazards arising from the preparation itself, combustion products, resulting gases:</b>	In the event of a fire, the following may be produced when the water evaporates: Chlorine decomposition products (in traces), nitrogen oxides (NO <sub>x</sub> ).
<b>Special protective equipment for fire-fighters:</b>	Wear self-contained breathing apparatus.
<b>Additional information:</b>	Hazchem-Code: - Do not allow fire water to penetrate into surface or ground water.

### 6. Accidental release measures

<b>Personal precautions:</b>	Avoid contact with the substance. Provide adequate ventilation.
<b>Environmental precautions:</b>	Do not allow to penetrate into soil, waterbodies or drains.
<b>Methods for cleaning up:</b>	Soak up with absorbent materials such as sand, siliceous earth, acid- or universal binder. Store in special closed containers and dispose of according to ordinance. Final cleaning. Do not allow to dry.

### 7. Handling and storage

#### Handling

##### Information for safe handling:

Provide adequate ventilation, and local exhaust as needed.  
Avoid contact with the substance. Do not breathe vapour or spray.  
Do not mix with other chemicals.

#### Storage

##### Requirements for storerooms and containers:

Keep container tightly closed.

##### Storage class:

12

### 8. Exposure controls / Personal protection equipment

#### Exposure controls

See information in chapter 7, section storage.

#### Occupational exposure controls

**Respiratory protection:** If vapours form, use respiratory protection.  
Use filter type A-P3 according to EN 141.

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<b>Hand protection:</b>	Protective gloves according to EN 374. Glove material: Butyl rubber-Breakthrough time: >480 min. Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
<b>Eye protection:</b>	Tightly sealed safety glasses according to EN 166.
<b>Skin protection:</b>	Wear suitable protective clothing.
<b>General protection and hygiene measures:</b>	Change contaminated clothing. Wash hands before breaks and at the end of work.

### 9. Physical and chemical properties

<b>Appearance</b>	
<b>Physical state:</b>	liquid
<b>Colour:</b>	colourless
<b>Odour:</b>	characteristic

#### Important health, safety and environmental information

<b>Flash point / flash point range:</b>	Not combustible
<b>Density:</b>	at 20 °C: 1,03 g/mL
<b>pH-value:</b>	6,5-7,5
<b>Solubility in water:</b>	at 20 °C: fully miscible

### 10. Stability and reactivity

<b>Conditions to avoid:</b>	Do not mix with other chemicals.
<b>Materials to avoid:</b>	strong acids and alkalis
<b>Hazardous decomposition products:</b>	In the event of a fire, the following may be produced when the water evaporates: Chlorine decomposition products (in traces), nitrogen oxides (NOx).
<b>Additional information:</b>	Product is stable under normal storage conditions.

### 11. Toxicological information

<b>Toxicological Tests</b>	
<b>After eye contact:</b>	May cause irritations.
<b>General remarks</b>	May cause sensitization by skin contact.

### 12. Ecological information

<b>Ecotoxicity</b>	
<b>Aquaticity:</b>	Information about Mixture of 5-chlorine-2-methyl-2H-isothiazol-3-on and 2-methylen-isothiazol-3-on (3:1) (Biocide): Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Algae toxicity: EC50 Pseudokirchneriella subcapitata: 0,018 mg/L/72h. EC50 Selenastrum capricornutum: 0,025 mg/L/96h. Bacterial toxicity: EC50 Pseudomonas putida: 5,7 mg/L/16h. Daphnia toxicity: EC50 Daphnia magna: 0,12 mg/L/48 h.

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	Fish toxicity: LC50 trout: 0,19 - 0,28 mg/L/96 h.
<b>Water Hazard Class:</b>	1 = mild water pollutant
<b>Additional ecological information</b>	
<b>General information:</b>	Do not allow to enter ground water, sewage or drains.

### 13. Disposal considerations

**Product:**

**Waste key number** 110198\* = Wastes from chemical surface treatment and coating of metals and other materials (eg. galvanic processes, zinc coating processes, pickling processes, etching, phosphatising, alkaline degreasing, anodising)

\* = Evidence for disposal must be provided.

**Recommendation:** Special waste. Waste disposal according to official state regulations.

**Contaminated packaging:**

**Waste key number** 150102 = Plastic packaging.

**Recommendation:** Waste disposal according to official state regulations.  
Handle contaminated packaging in the same way as the substance itself.  
Cleaned containers may be recycled.

### 14. Transport information

**Overland transport (ADR/RID)**

**Product designation:** Not restricted

**Transport by sea (IMDG)**

**Proper shipping name:** Not restricted

**Air transport (IATA)**

**Proper shipping name:** Not restricted

**Additional information** Not a hazardous material with respect to transportation regulations.

### 15. Regulatory information

**Labelling (67/548/EEC o 1999/45/EC)****Code letter and hazard symbol:**

Xi irritant

**R phrase(s):** R 43 May cause sensitization by skin contact.

**S phrase(s):** S 2 Keep out of the reach of children.

S 24 Avoid contact with skin.

S 37 Wear suitable gloves.

**Text for labelling**

Contains Mixture of 5-chlorine-2-methyl-2H-isothiazol-3-on and 2-methylen-isothiazol-3-on (3:1): May produce an allergic reaction.

**National regulations**

**National regulations – Great Britain Hazchem-Code:** -

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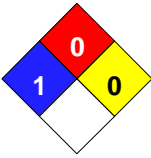
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**National regulations – Germany**  
**Storage class:** 12  
**Water Hazard Class:** 1 = mild water pollutant  
**Informations on working limitations:**  
 Observe employment restrictions concerning young persons.

**National regulations – EC member states:**  
**Volatile organic compounds (VOC):**  
 0 % by weight

**National regulations – USA:**  
**Hazard rating systems**



NFPA Hazard Rating:  
 Health: 1 (Slight)  
 Fire: 0 (Minimal)  
 Reactivity: 0 (Minimal)

HMIS Version III Rating:  
 Health: 1 (Slight)  
 Flammability: 0 (Minimal)  
 Physical Hazard: 0 (Minimal)

Personal Protection: X = Consult your supervisor

HEALTH		1
FLAMMABILITY		0
PHYSICAL HAZARD		0
		X

**16. Other information**

**Further remarks**

**R phrase(s):**

- R 8 = Contact with combustible material may cause fire.
- R 9 = Explosive when mixed with combustible material.
- R 23/24/25 = Toxic by inhalation, in contact with skin and if swallowed.
- R 34 = Causes burns.
- R 43 = May cause sensitization by skin contact.
- R 50/53 = Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Reason of change:** General revision

**Group that issues data sheet**

**Contact person:** See chapter 1, department responsible for information.

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.