



**marking elektrolyte universal  
Safety data sheet**

According to 1907/2006 EG/ REACH

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**1. Substance / preparation and company designation**

Product details

Trade name: Electrolyte Universal, Printosol 2000,  
Supplier: HS Cleaner Werner Krauter GmbH,  
Siemensstrasse 2-5, D-73037 Goepfingen  
Telephone: 07161 / 9383-102, fax 07161 / 9383-9100  
Emergency information: Advice center for symptoms of poisoning, Berlin Tel.  
030/19240

**Reach registration number:**

A registration number for this substance is not available because the substance or its use is subject to Article 2, REACH Regulation (EC)

No: 1907/2006 EC Article 31 is exempt from registration.

Annual tonnages do not currently require registration and are not scheduled for a later date.

**2. Potential Hazards**

2.1 Indication of danger

2.2 Special hazard warnings  
for people and the environment

2.2.1 Symptoms of excessive  
suspension

2.2.1.1 **Inhalation:**

2.2.1.2 **Skin/eye contact** Eye contact may cause irritation

2.2.1.3 **Ingestion:** Ingestion of large amounts of this product may cause problems in the digestive tract, and significantly larger amounts may cause kidney problems.

2.2.1.4 **Chronic damage** Not expected with normal use.

2.2.1.5 **Deterioration of the state of health during use:** no consequential damage known.



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### 3. Composition / information on ingredients

3.1 Chemical characterization: Aqueous solution of potassium nitrate 5-10% with harmless additives.

3.2 Hazardous ingredients

3.2.1 CAS no. designation n EC dir. 7757-79-1

3.2.2 Salary 101.11 Mg

3.2.3 Unit: molecular formula  $\text{KNO}_3$

3.2.4 Code R phrases EINECS NUMBER: 231-818-8

3.2.5 Additional information: Contains potassium nitrate in water

### 4. First Aid Measures

**General information:** rest, fresh air, seek medical help.

**After skin contact:** Wash off with plenty of water. Remove contaminated clothing

**After eye contact:** Rinse out with clear water with the eyelid wide open. If irritation persists, seek medical attention.

**After ingestion:** If swallowed, give person large amounts of cold water or milk to drink. Induce vomiting and seek medical attention. Do not give anything by mouth to an unconscious person.

**After inhalation:** Consult a doctor after inhaling thermal decomposition products. education vs. Pulmonary edema (symptoms may be delayed).

**Information for the doctor:** The following symptoms may occur: After inhaling thermal decomposition products, the formation of pulmonary edema may occur. (Symptoms may be delayed)

**Advice for medical treatment:** Induce vomiting. Have plenty of water to drink afterwards

### 5. Fire-fighting measures

5.1 **Suitable extinguishing media:** water, foam

5.1.1 **Firefighting measures:** see 5.1

5.2 **Special Danger** from the substance, its combustion prod. or resulting gases:

5.3 **Special protective equipment:** Put on protective equipment, breathing apparatus.



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### 6. Accidental release measures

6.1 **Personal precautions:** Keep unprotected people away,

6.2 **Environmental precautions:** Prevent from entering drains, pits and cellars.

6.3 **Procedure for cleaning** / picking up the product:

e.g. universal binder, sand

Do not use: Acidic ammonium-containing and combustible binders.

Send for disposal. post-cleaning.

### 7. Handling and Storage

#### 7.1 Handling:

7.1.1 **Advice on safe handling:** Ensure good ventilation at the workplace. Wear protective gloves if you have skin irritations. Keep container closed and handle with care. Avoid sun exposure.

#### 7.1.2 **Note on fire and explosion protection:**

Closed containers can burst if they overheat due to the high internal pressure that builds up.

#### 7.2 **Storage**

7.2.1 **Requirements for storage rooms and containers:** Store in a cool, dry place. Store only in the original container. Keep container tightly closed. physical and chem. prevent damage to containers.

7.2.2 **Note on storage in one common storage facility:** Store away from reducing agents. Store dark and cool.

7.2.3 Further information on storage conditions.

7.2.3.1 Storage class

7.2.3.2 VbF class



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### 8. **Exposure controls and personal protective equipment**

#### 8.1 **Additional design information:**

No further information, see Section 7

8.2 **Components with workplace-related limit** values to be monitored: not applicable

8.3 Additional note: not published

8.4 **Personal protective equipment:** The usual precautionary measures when handling chemicals must be observed. Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

8.4.1 Respiratory protection: Ensure thorough ventilation / extraction at the workplace.

8.4.2.1 **Hand protection:** Protective gloves required

8.4.2.2 Eye **protection:** required

8.4.2.3 **Body protection:** The use of protective clothing such as aprons, work coats or work clothes is recommended.

### 9. **Physical and chemical properties**

9.1 **Form:** liquid

9.2 **Color:** colorless,

9.3 **Odour:** dull-sweet

		Value/Range	Unit	Method
9.4	<b>State Change</b>			
9.5	<b>Density according to DIN 51757</b>	1.09 kg / L at 20°		
9.6	<b>Melting point</b>	>4°C		
9.7	<b>Boiling point:</b>	> 100°C (212 F) at 1013 hPa		
9.8	<b>Flash point:</b>	not applicable		
9.9	<b>Ignition temperature</b>	not applicable		
9.10	<b>Explosion hazard:</b>	not applicable		
9.11	<b>Solubility in water:</b>	Immiscible		
9.12	<b>Vapor pressure:</b>	20° / 30° / 50°C not applicable		
9.13	<b>Volatile Organ. Connection:</b>	not applicable		
9.14	<b>Viscosity:</b>	20°C 10-50m Pa.s (Rheo STV MS3)		
9.15	<b>pH:</b>	about 7		



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### 10. Stability and Reactivity

#### 10.1 Thermal decomposition and to

avoidable conditions: Therm. Decomposition of potassium nitrate at temperatures above 600°C

10.2 **Dangerous reactions:** none known

10.3 **Hazardous decomposition products:** nitrous gases, nitrogen, potassium oxide

### 11. Toxicological information

#### 11.1 Acute toxicity:

Not determined

Component Type Value Species

11.2 **LD 50 relevant for classification** (oral, rat) 3750 mg /kg

11.3 **Values:** For the pure substance potassium nitrate

11.3.1 **Primary irritant effect on the skin.** irritating effect

11.3.2 **On the eyes:** Irritations can occur on the eyes.

11.4 **Sensitization:** After absorption: danger of methaemoglobin formation.

### 12. Ecological information

**general Notes** (For the pure substance potassium nitrate) Do not allow to enter waterways or waste water. Aquatic toxicity: Fish toxicity: EC/LC50: >1000mg/l/60h. Behavior in sewage treatment plants: If low concentrations are properly discharged into adapted biological sewage treatment plants, no disturbances in the degradation activity of the activated sludge are to be expected. general Notes: Nitrates can lead to eutrophication of bodies of water, therefore do not allow large quantities to get into bodies of water or waste water.

### 13. Disposal considerations

13.1 **Product:** Electrolyte

13.2 **Waste code number:** EINECS number: 231-818-8

13.3 **Waste designation** Electrolyte

13.4 **Disposal information:** There are no uniform regulations for the disposal of chemicals or residues in the EC. Chemicals that occur as residues are usually hazardous waste. Their elimination is regulated by corresponding laws and regulations of the EC member states and also by the federal states in the Federal Republic of Germany. Please contact the responsible body (authority or waste disposal company) for information on disposal.



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### 14. Transportation Information

- 14.1 Land transport: ADR/RID and GGVS/GGVE  
Not subject to the ADR according to special regulations chap. 3.3, No. 270
- 14.2 Sea transport: IMDG/GGVSee class: 5.1 UN number. 3218 pack Group: III EmS: F-A, S-Q
- 14.3 Air Transport. ICAO-TI & IATA-DGR IICAO-TI and IATA-DGR  
IICAO-IATA Class: 5.1 UN ID number: 3218 Packing group: III Proper shipping name: NITRATES; INORGANIC, AQUEOUS SOLUTION, N.O.S

### 15. Regulations

- 15.1 Labeling according to EC directives
- 15.2 Code letter and hazard designation of the product
  - 15.2.1 R phrases, S phrases -/-
  - 15.2.2 EEC number. 231-818-8 EEC marking., (applies to the pure substance sodium nitrate)
- 15.3 National regulations: for the pure substance potassium nitrate
- 15.4 Other national regulations: Swiss poison class 4
- 15.5 Water hazard class: WGK 1
- 15.6 Storage class VCI: 5.1B

### 16. Other information

- 16.1 **Note on use** (electrolytic metal labelling)  
It cannot be completely ruled out that the electrolytic processing of Autolyte products can sometimes lead to the formation and release of decomposition products. For this reason, we recommend ensuring that the workplace is adequately ventilated when using electrolytic metal marking.
- 16.2 **Advice for physicians** (for pure substance)  
The substance potassium nitrate can act as a methaemoglobin-former (head pressure, nausea, hypotension, synosis of the skin and mucous membranes, cresil collapse). After ingestion, induce vomiting or perform gastric lavage, observing the usual medical precautions. Then add sodium sulfuricum (1 tablespoon to ¼ l water) and activated charcoal. Methaemoglobin formation is neutralized by toluidine blue. (Intravenous) After inhalation of fire gases, pulmonary edema prophylaxis with Auxilon Spray. Possibly symptomatic treatment of the circulatory system if there is a risk of collapse.

The information is based on our current knowledge and serves to describe the product with regard to the safety precautions to be taken. They do not represent any guarantee of the properties of the product described.