

WTW Safety Data Sheet According to EC Directives 91/155/EEC

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

Product name:

NH₃ Electrolyte Solution

Ord. No.: 180 100 *Model:* ZBK/NH₃/2

Manufacturer:

WTW Wissenschaftlich-Technische Werkstätten GmbH, Dr.-Karl-Slevogt-Straße 1, D-82362 Weilheim, Germany,..Tel.: (0881) 183-0, Fax.: (0881) 62539

Emergency telephone: (001)-703-527-3887

2. Composition/information on ingredients

Chemical characterization: Aqueous saline solution

Hazardous ingredients: Ammonium chloride

 Hazard symbols:
 Harmful (Xn)

 R-phrases:
 22-36

 Content:
 < 1 %</td>

 CAS-No.:
 12125-02-9

 EINECS-No.:
 235-186-4

3. Hazards identification

No hazardous product.

4. First aid measures

After inhalation: Fresh air

After skin contact: Wash off with plenty of water.

Remove contaminated clothing.

After eye contact: Rinse out with plenty of water with the eyelid

held wide open.

After ingestion: Make injured person drink plenty of water.

Induce vomiting.

Immediately summon doctor.

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5. Fire-fighting measures

Suitable extinguishing media: Water, CO₂, powder, foam.

Unsuitable extinguishing media: No information available.

Special risks: None

Other information: Non combustible

6. Accidental release measures

Personal-related precautionary measures: None

Environmental-protection measures: Do not allow to enter sewerage system.

Procedures for cleaning/absorption: Clean up affected area with water.

7. Handling and storage

Handling: No further requirements

Storage: Tightly closed

8. Exposure control/personal protection

Specific control parameters: None

Personal protective equipment

Respiratory protection: Required when dusts are generated.

Eye protection: Protective glasses

Hand protection: Gloves

Industrial hygiene: Wash hands after working with solution.

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9. Physical and chemical properties

Form: Liquid Colour: Colourless Odour. Odourless

pH-value °C

Melting temperature: about 0°C Boiling temperature: about 100°C

Ignition temperature: °C
Flash point: °C
Explosion limite lower: /
upper: /

Density: 1 g/cm³
Solubility in water: miscible

Thermal decomposition: /

10. Stability and reactivity

Conditions to be avoided: Strong heating

Substances to be avoided: Alkali hydroxides, nitrates

Hazardous decomposition products: Ammonia, hydrochloric acid

Further information: None

11. Toxicological information

Acute toxicity: LD50 (oral): 1440 mg/kg for Ammonium chloride

Further toxicological information: After ingestion of large amounts: headache,

nausea, unconciousness, mucosal irritation.

Eye contact: causes irritant effects.

12. Ecological information

Ecotoxic effects: Ammonium ions cause biological effects:

fish: toxic as from 0,3 mg/l.

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13. Disposal considerations

Products: There are no uniform regulations for the disposal of chemicals

or residues. The disposal is regulated through corresponding

regional laws and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which

will advise you on how to dispose the special waste.

Packaging: Handle contaminated packaging in the same way as the

substance itself. If not officially specified differently, nonconta-

minated packaging may be treated like household waste or recycled.

14. Transport information

Not subject to transport regulations.

15. Regulatory information

Labelling according to EC directives

Symbol: No hazardous product.

R-phrases: / S-phrases: /

German regulations

Water pollution class; nonpolluting substance

Regulation on combustible liquids; VbF: Non combustible

Other regulations: None

16. Other information

Date of issue: 12.2.2004
Supersedes edition of 20.8.2001
Reason for alteration: General update

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

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