

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

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

Product name:

Ammonium Standard Solution 10 g/l NH₄⁺

Ord. No.: 120 240 *Model:* ES/NH₄

Manufacturer:

WTW Wissenschaftlich-Technische Werkstätten GmbH, Dr.-Karl-Slevogt-Straße 1, D-82362 Weilheim, Germany, Tel.: +49(0)881 183-0, Fax.: +49(0)881 183-420

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:
 3,8 %

 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. Summon doctor.

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5. Fire-fighting measures

Suitable extinguishing media: To suit environment.

Unsuitable extinguishing media: No information available.

Special risks: Development of hazardous vapours possible in the event

of fire. The following may develop in the event of fire:

NH₃, HCl, chlorine.

Use chemical protection clothing and selfcontained breathing

apparatus in the dangerous zone.

Other information: Non combustible

6. Accidental release measures

Personal-related precautionary measures: Avoid generation of dusts.

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

Procedures for cleaning/absorption: Take up with liquid-absorbent material.

Forward for disposal.

Clean up effected 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: Only required when dusts are generated.

Eye protection: Protective glasses

Hand protection: Gloves (nitrile rubber)

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 3,1 at 20°C

Melting temperature: °C

Boiling temperature: about 100°C

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

Solubility in water: miscible

Thermal decomposition: /

10. Stability and reactivity

Conditions to be avoided: Do not alkalize the standard solution.

Substances to be avoided: Alkali hydroxides, chlorates, nitrates, nitrides.

Hazardous decomposition products: Ammonia, hydrochloric acid.

Further information: None

11. Toxicological information

Acute toxicity: LD50 (oral, rat): 1650 mg/kg (Ammonium chloride)

Further toxicological information: After skin contact: slight irritation symptoms.

After eye contact: irritant effect. After ingestion: mucosal irritations.

After ingestion of large amounts: headache, nausea,

unconsciousness.

12. Ecological information

Ecotoxic effects: Ammonium ions cause biological effects: fish: toxic as

from 0,3 mg/l.

No ecological problems are to be expected when the product is handled and used with due care and attention.

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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, noncontaminated 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; WGK: 1 Slightly polluting substance

Storage class VCI: 12

Regulation on combustible liquids; VbF: Non combustible

Other regulations: None

16. Other information

Date of issue: 15.07.2006
Supersedes edition of Reason for alteration: 12.02.2004
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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