

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.: (0881) 183-0, Fax.: (0881) 62539

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

2. Composition/information on ingredients

Chemical characterization:Aqueous saline solutionHazardous ingredients:Ammonium chlorideHazard symbols:Harmful (Xn)R-phrases:22-36Content:3,8 %CAS-No.12125-02-9EINECS-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.

WTW Safety Data Sheet

Identification of the substance/preparation

Ammonium Standard Solution 10 g/l NH4⁺

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: NH_3 , 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
Industrial hygiene:	Wash hands after working with solution.

WTW Safety Data Sheet

Identification of the substance/preparation

Ammonium Standard Solution 10 g/l NH4⁺

9. Physical and chemical properties

Form: Liquid	Colour: Colourless	Odour: Odourless
pH-value Melting temperature: Boiling temperature: Ignition temperature: Flash point: Explosion limite lower: upper: Density: Solubility in water: Thermal decomposition:	3,1 at 20°C °C about 100°C °C °C / / / / miscible /	

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,

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.

unconsciousness.

WTW Safety Data Sheet

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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: R-phrases: / S-phrases: /	No hazardous	product
German regulations		
Water pollution class;	WGK: 1	Slightly polluting substance
Regulation on combustible liquids;	VbF: Non combustible	
Other regulations:	None	

16. Other information

Date of issue:	12.2.2004
Supersedes edition of	22.3.2001
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.