

Safety Data Sheet

According to EC Directive 91/155/EEC

Date of issue:
Supersedes edition of

04.11.2005
05.10.2003

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

Identification of the product

Order-No. 250 323
Product name: WTW-PL cell test Ammonium A5/25
Küvetten-Reagenz

Use of the substance/preparation

Reagent for analysis

Company/undertaking identification

Company: WTW * D-82362 Weilheim * Tel. 0881 / 183-0
FAX 0881 / 1748
Emergency telephone No.: +49 (0)6151/722440 * Fax: +49 (0)6151/72-7780

2. Composition/information on ingredients

Aqueous solution of inorganic and organic compounds.

3. Hazards identification

No hazardous product as specified in Directive 67/548/EEC.

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. Call in ophthalmologist if necessary.
After swallowing: immediately make victim drink plenty of water. Consult doctor if feeling unwell.

5. Fire-fighting measures

Suitable extinguishing media:
In adaption to materials stored in the immediate neighbourhood.

Special risks:
Non-combustible. Ambient fire may liberate hazardous vapours.

Special protective equipment for fire fighting:
Do not stay in dangerous zone without self-contained breathing apparatus.

6. Accidental release measures

Person-related precautionary measures:
Do not inhale vapours/aerosols.

Procedures for cleaning / absorption:
Take up with liquid-absorbent material (e.g. Chemizorb®). Forward for disposal. Clean up affected area.

Merck Safety Data Sheet

According to EC Directive 91/155/EEC

Order-No. 250 323
Product name: WTW-PL cell test Ammonium A5/25
Küvetten-Reagenz

7. Handling and storage

Handling:

No further requirements.

Storage:

Tightly closed. Storage temperature: no restrictions.

The data apply to the entire pack.

8. Exposure controls/personal protection

Personal protective equipment:

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Respiratory protection: required when vapours/aerosols are generated.

Eye protection: required

Hand protection: In full contact:
Glove material: nitrile rubber
Layer thickness: 0.11 mm
Breakthrough time: > 480 Min.

In splash contact:
Glove material: nitrile rubber
Layer thickness: 0.11 mm
Breakthrough time: > 480 Min.

The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN374, for example KCL 741 Dermatril® L (full contact), 741 Dermatril® L (splash contact).

This recommendation applies only to the product stated in the safety data sheet and supplied by us as well as to the purpose specified by us. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Industrial hygiene:

Change contaminated clothing. Wash hands after working with substance.

9. Physical and chemical properties

Form: liquid
Colour: almost colourless
Odour: phenol-like
pH value (20 °C) ~ 12.2
Melting point not available
Boiling point not available
Ignition temperature not available

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According to EC Directive 91/155/EEC

Order-No. 250 323
Product name: WTW-PL cell test Ammonium A5/25
Küvetten-Reagenz

Flash point		not available
Explosion limits	lower	not available
	upper	not available
Density	(20 °C)	1.01 g/cm ³
Solubility in water	(20 °C)	soluble

10. Stability and reactivity

Conditions to be avoided
no information available

Substances to be avoided

The generally known reaction partners of water.

Hazardous decomposition products
no information available

11. Toxicological information

Acute toxicity

Quantitative data on the toxicity of this product are not available.

Further toxicological information

Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.

Further data

The product should be handled with the care usual when dealing with chemicals.

12. Ecological information

Ecotoxic effects:
Quantitative data on the ecological effect of this product are not available.

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

13. Disposal considerations

Product:

Chemicals must be disposed of in compliance with the respective national regulations. Under www.retrologistik.de you will find country- and substance-specific information as well as contact partners.

Packaging:

Merck product packaging must be disposed of in compliance with the country-specific regulations or must be passed to a packaging return system. Under www.retrologistik.de you will find special information on the respective national conditions as well as contact partners.

Merck Safety Data Sheet

According to EC Directive 91/155/EEC

Order-No.	250 323
Product name:	WTW-PL cell test Ammonium A5/25 Küvetten-Reagenz

14. Transport information

Road & Rail ADR, RID
UN 3316 CHEMIE-TESTSATZ, 9, III

Inland waterway ADN, ADNR not tested

Sea IMDG-Code
UN 3316 CHEMICAL KIT, 9, III
Ems F-A S-P

Air CAO, PAX
UN 3316 CHEMICAL KIT, 9, III

The transport regulations are cited according to international regulations and in the form applicable in Germany . Possible national deviations in other countries are not considered.
THESE TRANSPORT DATA APPLY TO THE ENTIRE PACK !

15. Regulatory information

Labelling according to EC Directives

Symbol: ---

R-phrases: ---

S-phrases: ---

16. Other information

Reason for alteration

General update.

Contact for information:

Merck KGaA * D-64271 Darmstadt * Tel. 06151/72-6969

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.

Safety Data Sheet

According to EC Directive 91/155/EEC

Date of issue:
Supersedes edition of

04.11.2005
17.08.2003

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

Identification of the product

Order-No. 250 323
Product name: WTW-PL cell test Ammonium A5/25
Reagenz NH₄-2

Use of the substance/preparation

Reagent for analysis

Company/undertaking identification

Company: WTW * D-82362 Weilheim * Tel. 0881 / 183-0
FAX 0881 / 1748
Emergency telephone No.: +49 (0)6151/722440 * Fax: +49 (0)6151/72-7780

2. Composition/information on ingredients

Mixture of organic compounds.

Hazardous ingredients:

Name according to EC Directives:

CAS-No.	EC No.	EC-Index-No.	Classification	Content:
Sodium nitroprusside 14402-89-2	238-373-9		T; R25	≥ 10 - < 25 %
troclosene sodium, dihydrate 51580-86-0	220-767-7	613-030-01-7	Xn; R22 Xi; R36/37 R31 N; R50/53	≥ 1 - < 2.5 %

(Full text of R-Phrases in heading 16)

3. Hazards identification

Harmful if swallowed. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. First aid measures

After inhalation: fresh air. Consult doctor if feeling unwell.
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 swallowing: immediately make victim drink plenty of water. Call in physician.

Merck Safety Data Sheet

According to EC Directive 91/155/EEC

Order-No.	250 323
Product name:	WTW-PL cell test Ammonium A5/25 Reagenz NH ₄ -2

5. Fire-fighting measures

Suitable extinguishing media:

Water, CO₂, foam, powder.

Special risks:

Combustible. Development of hazardous combustion gases or vapours possible in the event of fire. The following may develop in event of fire: nitrogen oxides, hydrogen cyanide.

Special protective equipment for fire fighting:

Do not stay in dangerous zone without self-contained breathing apparatus.

Other information:

Contain escaping vapours with water. Prevent fire-fighting water from entering surface water or groundwater.

6. Accidental release measures

Person-related precautionary measures:

Avoid substance contact. Avoid generation of dusts; do not inhale dusts. Ensure supply of fresh air in enclosed rooms.

Environmental-protection measures:

Do not allow to enter sewerage system.

Procedures for cleaning / absorption:

Take up dry. Forward for disposal. Clean up affected area.

7. Handling and storage

Handling:

No further requirements.

Storage:

Tightly closed. Dry. Storage temperature: no restrictions.

The data apply to the entire pack.

8. Exposure controls/personal protection

Personal protective equipment:

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Respiratory protection: required when dusts are generated.

Eye protection: required

Merck Safety Data Sheet

According to EC Directive 91/155/EEC

Order-No. 250 323
Product name: WTW-PL cell test Ammonium A5/25
Reagenz NH₄-2

Hand protection:

In full contact:

Glove material:	nitrile rubber
Layer thickness:	0.11 mm
Breakthrough time:	> 480 Min.

In splash contact:

Glove material:	nitrile rubber
Layer thickness:	0.11 mm
Breakthrough time:	> 480 Min.

The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN374, for example KCL 741 Dermatrill® L (full contact), 741 Dermatrill® L (splash contact).

This recommendation applies only to the product stated in the safety data sheet and supplied by us as well as to the purpose specified by us. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Industrial hygiene:

Immediately change contaminated clothing. Apply skin- protective barrier cream. Wash hands and face after working with substance.

9. Physical and chemical properties

Form:	solid
Colour:	white
Odour:	weak
pH value	not available
Melting point	not available
Boiling point	not available
Ignition temperature	not available
Flash point	not available
Explosion limits	lower not available
	upper not available
Density	not available
Bulk density	~ 500-600 kg/m ³
Solubility in water	(20 °C) soluble

10. Stability and reactivity

Conditions to be avoided

no information available

Substances to be avoided

acids, strong oxidizing agents.

Hazardous decomposition products

in the event of fire: See chapter 5.

Merck Safety Data Sheet

According to EC Directive 91/155/EEC

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Product name:	WTW-PL cell test Ammonium A5/25 Reagenz NH ₄ -2

11. Toxicological information

Acute toxicity

Quantitative data on the toxicity of this product are not available.

Further toxicological information

Applicable to the toxicologically determinant component:

After swallowing: drop in blood pressure, cardiovascular failure, collapse.

The following may be released from the substance under unfavourable conditions: hydrogen cyanide.

Possible symptoms: headache, dizziness, tachycardia, dyspnoea, unconsciousness, spasms, respiratory arrest.

Cannot be excluded: CNS disorders.

Further data

Further hazardous properties cannot be excluded.

The product should be handled with the care usual when dealing with chemicals.

12. Ecological information

Ecotoxic effects:

Quantitative data on the ecological effect of this product are not available.

Biological effects:

Harmful effect on aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Further ecologic data:

Do not allow to enter waters, waste water, or soil!

13. Disposal considerations

Product:

Chemicals must be disposed of in compliance with the respective national regulations. Under www.retrologistik.de you will find country- and substance-specific information as well as contact partners.

Packaging:

Merck product packaging must be disposed of in compliance with the country-specific regulations or must be passed to a packaging return system. Under www.retrologistik.de you will find special information on the respective national conditions as well as contact partners.

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According to EC Directive 91/155/EEC

Order-No. 250 323
Product name: WTW-PL cell test Ammonium A5/25
Reagenz NH₄-2

14. Transport information

Road & Rail ADR, RID
UN 3316 CHEMIE-TESTSATZ, 9, III

Inland waterway ADN, ADNR not tested

Sea IMDG-Code
UN 3316 CHEMICAL KIT, 9, III
Ems F-A S-P

Air CAO, PAX
UN 3316 CHEMICAL KIT, 9, III

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THESE TRANSPORT DATA APPLY TO THE ENTIRE PACK !

15. Regulatory information

Labelling according to EC Directives

Symbol:	Xn	Harmful
R-phrases:	22-52/53	Harmful if swallowed. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrases:	---	
contains:	Sodium nitroprusside	

16. Other information

Text of any R phrases referred to under heading 2:

22	Harmful if swallowed.
25	Toxic if swallowed.
31	Contact with acids liberates toxic gas.
36/37	Irritating to eyes and respiratory system.
50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Reduced labelling on the container due to small quantity.

Reason for alteration

General update.

Contact for information:

Merck KGaA * D-64271 Darmstadt * Tel. 06151/72-6969

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According to EC Directive 91/155/EEC

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04.11.2005
17.08.2003

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

Identification of the product

Order-No. 250 323
Product name: WTW-PL cell test Ammonium A5/25
Blindwert-Simulationsreagenz

Use of the substance/preparation

Reagent for analysis

Company/undertaking identification

Company: WTW * D-82362 Weilheim * Tel. 0881 / 183-0
FAX 0881 / 1748
Emergency telephone No.: +49 (0)6151/722440 * Fax: +49 (0)6151/72-7780

2. Composition/information on ingredients

Aqueous solution of inorganic compounds.

Hazardous ingredients:

Name according to EC Directives:

CAS-No.	EC No.	EC-Index-No.	Classification	Content:
Copper(II) sulphate 7758-98-7	231-847-6	029-004-00-0	Xn; R22 Xi; R36/38 N; R50/53	≥ 0.1 - < 0.25 %

(Full text of R-Phrases in heading 16)

3. Hazards identification

No hazardous product as specified in Directive 67/548/EEC.

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 swallowing: immediately make victim drink plenty of water. Consult doctor if feeling unwell.

Merck Safety Data Sheet

According to EC Directive 91/155/EEC

Order-No.	250 323
Product name:	WTW-PL cell test Ammonium A5/25 Blindwert-Simulationsreagenz

5. Fire-fighting measures

Suitable extinguishing media:
In adaption to materials stored in the immediate neighbourhood.

Special risks:
Non-combustible.

Other information:
Prevent fire-fighting water from entering surface water or groundwater.

6. Accidental release measures

Person-related precautionary measures:
Do not inhale vapours/aerosols.

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

Procedures for cleaning / absorption:
Take up with liquid-absorbent material (e.g. Chemizorb®). Forward for disposal. Clean up affected area.

7. Handling and storage

Handling:

No further requirements.

Storage:

Tightly closed. Storage temperature: no restrictions.

The data apply to the entire pack.

8. Exposure controls/personal protection

Personal protective equipment:

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Respiratory protection: required when vapours/aerosols are generated.

Eye protection: required

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Hand protection:

In full contact:

Glove material:	nitrile rubber
Layer thickness:	0.11 mm
Breakthrough time:	> 480 Min.

In splash contact:

Glove material:	nitrile rubber
Layer thickness:	0.11 mm
Breakthrough time:	> 480 Min.

The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN374, for example KCL 741 Dermatrill® L (full contact), 741 Dermatrill® L (splash contact).

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Industrial hygiene:
Change contaminated clothing. Wash hands after working with substance.

9. Physical and chemical properties

Form:	liquid	
Colour:	light blue	
Odour:	odourless	
pH value	(20 °C)	~ 4.9
Melting point		not available
Boiling point		not available
Ignition temperature		not available
Flash point		not available
Explosion limits	lower	not available
	upper	not available
Density	(20 °C)	1.00 g/cm ³
Solubility in water	(20 °C)	soluble

10. Stability and reactivity

Conditions to be avoided
no information available

Substances to be avoided

The generally known reaction partners of water.

Hazardous decomposition products
no information available

Merck Safety Data Sheet

According to EC Directive 91/155/EEC

Order-No. 250 323
Product name: WTW-PL cell test Ammonium A5/25
Blindwert-Simulationsreagenz

11. Toxicological information

Acute toxicity

Quantitative data on the toxicity of this product are not available.

Further toxicological information

Hazardous properties cannot be excluded, but are relatively improbable due to the low concentration of the dissolved substance(s).

Further data

The product should be handled with the care usual when dealing with chemicals.

12. Ecological information

Ecotoxic effects:

Quantitative data on the ecological effect of this product are not available.

Further ecologic data:

Do not allow to enter waters, waste water, or soil!

13. Disposal considerations

Product:

Chemicals must be disposed of in compliance with the respective national regulations. Under www.retrologistik.de you will find country- and substance-specific information as well as contact partners.

Packaging:

Merck product packaging must be disposed of in compliance with the country-specific regulations or must be passed to a packaging return system. Under www.retrologistik.de you will find special information on the respective national conditions as well as contact partners.

14. Transport information

Road & Rail ADR, RID

UN 3316 CHEMIE-TESTSATZ, 9, III

Inland waterway ADN, ADNR not tested

Sea IMDG-Code

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Product name: WTW-PL cell test Ammonium A5/25
Blindwert-Simulationsreagenz

15. Regulatory information

Labelling according to EC Directives

Symbol: ---
R-phrases: ---
S-phrases: ---

16. Other information

Text of any R phrases referred to under heading 2:

22 Harmful if swallowed.
36/38 Irritating to eyes and skin.
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Reason for alteration

General update.

Contact for information:

Merck KGaA * D-64271 Darmstadt * Tel. 06151/72-6969

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