

# Safety Data Sheet

According to EC Directive 91/155/EEC

Date of issue:  
Supersedes edition of

08.11.2005  
04.11.2005

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

### Identification of the product

Order-No. 250 343  
Product name: WTW-PL cell test Nitrite N4/25 250343  
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

Mixture of organic compounds.

### Hazardous ingredients:

#### Name according to EC Directives:

| CAS-No.                                       | EC No.    | EC-Index-No. | Classification    | Content:     |
|-----------------------------------------------|-----------|--------------|-------------------|--------------|
| Sulfanilic acid                               |           |              |                   |              |
| 121-57-3                                      | 204-482-5 | 612-014-00-X | Xi; R36/38<br>R43 | ≥ 50 %       |
| N-(1-Naphthyl)ethylenediamine dihydrochloride |           |              |                   |              |
| 1465-25-4                                     | 215-981-2 |              | Xi; R36/38        | ≥ 1 - < 10 % |

(Full text of R-Phrases in heading 16)

## 3. Hazards identification

Irritating to eyes and skin. May cause sensitization by skin contact.

## 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.  
After swallowing: make victim drink plenty of water, call in physician.

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## 5. Fire-fighting measures

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

Special risks:  
Combustible. Development of hazardous combustion gases or vapours possible in the event of fire.  
The following may develop in event of fire: sulfur oxides, nitrous gases, nitrogen oxides, hydrochloric acid.

Special protective equipment for fire fighting:  
Do not stay in dangerous zone without self-contained breathing apparatus. In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

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

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## 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.

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## 7. Handling and storage

*Handling:*

No further requirements.

*Storage:*

Tightly closed. Storage temperature: no restrictions.

The data apply to the entire pack.

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## 8. Exposure controls/personal protection

*Specific control parameter*

EC

|               |                                        |
|---------------|----------------------------------------|
| Name          | Sulphanilic acid                       |
| Sensitization | Sh Danger of sensitization of the skin |

*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.

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Respiratory protection: required when dusts 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](http://www.kcl.de)).

Industrial hygiene:

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

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## 9. Physical and chemical properties

Form: solid

Colour: grey

Odour: odourless

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 ~ 300-400 kg/m<sup>3</sup>

Solubility in water (20 °C) soluble

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|               |                                                           |
|---------------|-----------------------------------------------------------|
| Order-No.     | 250 343                                                   |
| Product name: | WTW-PL cell test Nitrite N4/25 250343<br>Küvetten-Reagenz |

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## 10. Stability and reactivity

*Conditions to be avoided*

Heating.

*Substances to be avoided*

acids, nitrosing agents.

*Hazardous decomposition products*  
in the event of fire: See chapter 5.

*Further information*

sensitive to moisture.

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## 11. Toxicological information

*Acute toxicity*

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

*Further toxicological information*

Property that must be anticipated on the basis from the components of the preparation:

After inhalation: Irritations of the mucous membranes, coughing, and dyspnoea.

After skin contact: Irritations. Risk of skin sensitization.

After eye contact: Irritations.

After swallowing: irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

Other notes:

The following applies to aromatic amines in general: systemic effect: methaemoglobinaemia with headache, cardiac dysrhythmia, drop in blood pressure, dyspnoea, and spasms, principal symptom: cyanosis (blue discoloration of the blood).

Under given conditions, contact with nitrites or nitric acid can lead to the formation of nitrosamines, which have shown themselves to be carcinogenic in animal experiments.

*Further data*

Further hazardous properties cannot be excluded.

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

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## 12. Ecological information

Ecotoxic effects:

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

Biological effects:

Bactericidal effect.

Further ecologic data:

Depending on the concentration, nitrogen compounds may contribute to the eutrophication of water supplies.

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

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## 13. Disposal considerations

### *Product:*

Chemicals must be disposed of in compliance with the respective national regulations. Under [www.retrologistik.de](http://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](http://www.retrologistik.de) you will find special information on the respective national conditions as well as contact partners.

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## 14. Transport information

Entire package: not subject to transport regulations.

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## 15. Regulatory information

### *Labelling according to EC Directives*

|            |                 |                                                |
|------------|-----------------|------------------------------------------------|
| Symbol:    | Xi              | Irritant                                       |
| R-phrases: | 43              | May cause sensitization by skin contact.       |
| S-phrases: | 24-37           | Avoid contact with skin. Wear suitable gloves. |
| contains:  | Sulfanilic acid |                                                |

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## 16. Other information

Text of any R phrases referred to under heading 2:

36/38 Irritating to eyes and skin.  
43 May cause sensitization by skin contact.

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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*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

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Supersedes edition of

07.11.2005  
04.11.2005

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

### Identification of the product

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Product name: WTW-PL cell test Nitrite N4/25 250343  
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

|               |                  |         |           |
|---------------|------------------|---------|-----------|
| CAS-No.:      | 7732-18-5        |         |           |
| M:            | 18.02 g/mol      | EC-No.: | 231-791-2 |
| Formula Hill: | H <sub>2</sub> O |         |           |

## 3. Hazards identification

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

## 4. First aid measures

No special precautionary measures necessary.

## 5. Fire-fighting measures

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

Special risks:  
none

## 6. Accidental release measures

Procedures for cleaning / absorption:  
Pour into drain.

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## 7. Handling and storage

### *Handling:*

No further requirements.

### *Storage:*

Tightly closed. Storage temperature: no restrictions.

The data apply to the entire pack.

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## 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: not required

Eye protection: not required

Hand protection: not required

Industrial hygiene:  
not required

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## 9. Physical and chemical properties

|                      |            |                |                   |
|----------------------|------------|----------------|-------------------|
| Form:                | liquid     |                |                   |
| Colour:              | colourless |                |                   |
| Odour:               | odourless  |                |                   |
| pH value             | (20 °C)    | neutral        |                   |
| Viscosity dynamic    | (20 °C)    | 0.952          | mPa*s             |
| Melting point        |            | 0              | °C                |
| Boiling point        |            | 100            | °C                |
| Ignition temperature |            | not applicable |                   |
| Flash point          |            | not applicable |                   |
| Explosion limits     | lower      | not applicable |                   |
|                      | upper      | not applicable |                   |
| Vapour pressure      | (20 °C)    | 23             | hPa               |
| Density              | (20 °C)    | 1.00           | g/cm <sup>3</sup> |
| Solubility in Water  |            | not available  |                   |

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## 10. Stability and reactivity

*Conditions to be avoided*

none

*Substances to be avoided*

The generally known reaction partners of water.

*Hazardous decomposition products*

none

*Further information*

none

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## 11. Toxicological information

*Acute toxicity*

No toxic effects are to be expected when the product is handled appropriately.

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## 12. Ecological information

not required

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## 13. Disposal considerations

*Product:*

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## 14. Transport information

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## 15. Regulatory information

*Labelling according to EC Directives*

Symbol: ---

R-phrases: ---

S-phrases: ---

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## 16. Other information

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## *Reason for alteration*

General update.

## *Contact for information:*

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