

# Safety Data Sheet



According to EC Directive 91/155/EEC

Date of issue: 11.03.2003 Supersedes edition of 22.04.1997

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

### Identification of the product

Catalogue No.: 114776  
Product name: Nitrite Test Method: photometric also refill pack for art.  
1.14774.0001 0.005 - 1.00 mg/l NO<sub>2</sub>-N 400 Tests  
0.016 - 3.28 mg/l NO<sub>2</sub>- Spectroquant®  
NO<sub>2</sub>-AN

### Use of the substance/preparation

Reagent for analysis

### Company/undertaking identification

Company: Merck KGaA \* 64271 Darmstadt \* Germany \* Tel: +49 (0)6151/72-0  
Emergency telephone No.: +49 (0)6151/72112 \* 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:
Sulphanilic acid				
121-57-3	204-482-5	612-014-00-X	Xi; R36/38-43	≥ 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, induce vomiting, call in physician.

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### 5. Fire-fighting measures

Suitable extinguishing media:  
powder, foam, spray water.

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, sulfur oxides, hydrochloric acid.

Special protective equipment for fire fighting:

Do not stay in dangerous zone without suitable chemical protection clothing and 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 generation of dusts; do not inhale dusts. Avoid substance contact.

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. At +15°C to +25°C.  
The data apply to the entire pack.

### 8. Exposure controls/personal protection

*Specific control parameter*

EC

Name	Sulphanilic acid
Sensitization	Sh Danger of sensitization of the skin

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### *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

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 740 Dermatril® (full contact), 740 Dermatril® (splash contact). The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

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:

Change contaminated clothing. Apply skin-protective barrier cream. Wash hands after working with substance.

## 9. Physical and chemical properties

Form:	solid	
Colour:	white	
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		~ 350 kg/m <sup>3</sup>
Solubility in water	(20 °C)	soluble

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### 10. Stability and reactivity

#### *Conditions to be avoided*

Heating.

#### *Substances to be avoided*

no information available

#### *Hazardous decomposition products*

in the event of fire: See chapter 5.

#### *Further information*

none

### 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 of dust: Irritation symptoms in the respiratory tract.

After skin contact: Irritations. Risk of skin sensitization.

After eye contact: Irritations.

After swallowing: mucosal irritations.

#### *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.

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](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.

### 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: Sulphanilic acid

#### *German regulations*

Water pollution class 3 (highly polluting substance) VwVwS Anh. 4

Storage class VCI 10-13

Data sheet of the Chemical Professional Association M004 Irritant substances/corrosive substances

M050 Dealing with harmful substances

The employment restrictions for young workers in accordance with section 22 of the Youth Employment Protection Law (JArbSchG) are to be observed.

### 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*

Chapter 8: personal protective equipment.

Chapter 8: specific control parameter.

Chapter 5: fire-fighting measures.

Chapter 11: toxicological information.

Chapter 15: change in water pollution class.

General update.

#### *Contact for information:*

HSSE-C/CI \* Tel: +49 6151/722775 \* Fax: +49 6151/726433 \* e-mail:prodsafe@merck.de

*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.*