

According to EC Directive 91/155/EEC

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

Identification of the product

Catalogue No.: 119811

Product name: Nitrate standard solution traceable to SRM from NIST NaNO₃ in H₂O 1000 mg/l NO₃⁻ CertiPUR®

Manufacturer/supplier identification

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2. Composition/information on ingredients

Aqueous solution.

Synonyms

Nitrate standard for aqueous matrices ready for use

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 water.

After eye contact: rinse out with plenty of water with the eyelid held wide open.

After swallowing: make victim drink plenty of water, induce vomiting. Summon 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

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7. Handling and storage*Handling:*

No further requirements.

Storage:

Tightly closed. At +15°C to +25°C.

8. Exposure controls/personal protection*Personal protective equipment:*

Respiratory protection: required when vapours/aerosols are generated.

Eye protection: required

Hand protection: Use recommended

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.

Industrial hygiene:

Change contaminated clothing. Wash hands after working with substance.

9. Physical and chemical properties

| | | |
|--------------------------|------------|--------------------------|
| Form: | liquid | |
| Colour: | colourless | |
| Odour: | odourless | |
| pH value | (20 °C) | ~ 6 |
| Melting point | | not available |
| Boiling point | | not available |
| Ignition temperature | | not available |
| Flash point | | not available |
| Explosion limits | lower | not available |
| | upper | not available |
| Relative vapour density_ | | not available |
| Density | (20 °C) | ~ 1.00 g/cm ³ |
| Solubility in water | (20 °C) | soluble |

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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

The following applies to nitrites/nitrates in general: methaemoglobinaemia after the uptake of large quantities.

However, when the product is handled appropriately, hazardous effects are unlikely to occur.

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:

The following applies to nitrates in general: may contribute to the eutrophication of water supplies. Hazard for drinking water. Fish: LC₅₀ > 500 mg/l.

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

13. Disposal considerations*Product:*

There are no harmonised regulations on the disposal of chemicals in the member states of the EU. In Germany, the Recycling and Waste Management Act (KrW-/AbfG) stipulates recycling as a requirement. This means that a distinction must be made between "wastes for recycling" and "wastes for disposal". Particular aspects - in the main concerning delivery - are also governed by the Laender. Please contact the competent body (authority or waste disposal company) where you will obtain information on recycling or disposal.

Packaging:

Disposal in compliance with official regulations. Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

14. Transport information

Not subject to transport regulations.

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15. Regulatory information*Labelling according to EC Directives*

Symbol: ---

R-phrases: ---

S-phrases: ---

German regulations

Water pollution class nwg (own classification)

Storage class VCI 10-13

Other national regulations

Swiss toxic class: F

16. Other information*Reason for alteration*

General update.

Change in product name.

Date of issue: 28.06.2000 Supersedes edition of 28.08.1992

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.