

according to the Global Harmonized System

Revision Date 08/02/2012

Version 1.1

#### **SECTION 1.Identification**

#### **Product identifier**

Product number 109866

Product name Nitrite standard 1000 mg NO<sub>2</sub>(NaNO<sub>2</sub> in H<sub>2</sub>O) Titrisol®

## Relevant identified uses of the substance or mixture and uses advised against

Identified uses Reagent for analysis

## Details of the supplier of the safety data sheet

Company EMD Millipore Corporation | 290 Concord Road, Billerica, MA 01821,

United States of America | SDS Phone Support: +1-978-715-1335 | General Inquiries: +1-978-751-4321 | Monday to Friday, 9:00 AM to

4:00 PM Eastern Time (GMT-5)

e-mail: mm\_sds@merckgroup.com

**Emergency telephone** 613-996-6666 CANUTEC (Canada)

+1-703-527-3887 CHEMTREC (International)

24 Hours/day; 7 Days/week

### **SECTION 2. Hazards identification**

### **GHS Classification**

Acute aquatic toxicity, Category 1, H400

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### **GHS-Labeling**

Hazard pictograms



Signal Word Warning

Hazard Statements

H400 Very toxic to aquatic life.

Precautionary Statements

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P273 Avoid release to the environment.

#### Other hazards

None known.

### SECTION 3. Composition/information on ingredients

Chemical nature Aqueous solution

#### Hazardous ingredients

Chemical Name (Concentration)
CAS-No.
sodium nitrite (>= 1 % - < 5 %)
7632-00-0

#### **SECTION 4. First aid measures**

#### **Description of first-aid measures**

Inhalation

After inhalation: fresh air.

Skin contact

After skin contact: wash off with plenty of water. Remove contaminated clothing.

Eye contact

After eye contact: rinse out with plenty of water.

Inaestion

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

Never give anything by mouth to an unconscious person.

## Most important symptoms and effects, both acute and delayed

Dizziness, narcosis, euphoria, agitation, cardiovascular disorders, Convulsions, Tiredness The following applies to nitrites/nitrates in general: methemoglobinemia after the uptake of large quantities.

## Indication of any immediate medical attention and special treatment needed

No information available.

## **SECTION 5. Fire-fighting measures**

#### Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

#### Special hazards arising from the substance or mixture

Not combustible.

#### Advice for firefighters

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Special protective equipment for fire-fighters

In the event of fire, wear self-contained breathing apparatus.

Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

### SECTION 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders: Protective equipment see section 8.

### **Environmental precautions**

Do not empty into drains.

#### Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills.

Observe possible material restrictions (see sections 7 and 10).

Take up with liquid-absorbent material (e.g. Chemizorb® ). Dispose of properly. Clean up affected area.

## SECTION 7. Handling and storage

#### Precautions for safe handling

Observe label precautions.

### Conditions for safe storage, including any incompatibilities

Tightly closed.

Store at +15°C to +25°C (+59°F to +77°F).

### SECTION 8. Exposure controls/personal protection

## Exposure limit(s)

Contains no substances with occupational exposure limit values.

### **Engineering measures**

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

#### Individual protection measures

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled. The chemical resistance of the protective equipment should be inquired at the respective supplier.

Hygiene measures

Change contaminated clothing. Wash hands after working with substance.

Eye/face protection

Safety glasses

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#### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

#### Recommended:

full contact:

Glove material: Nitrile rubber Glove thickness: 0.11 mm Break through time: > 480 min

splash contact:

Glove material: Nitrile rubber
Glove thickness: 0.11 mm
Break through time: > 480 min

#### Respiratory protection

required when vapors/aerosols are generated.

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

### SECTION 9. Physical and chemical properties

Physical state liquid

Color colorless

Odor odorless

Odor Threshold not applicable

pH ca. 7

at 68 °F (20 °C)

Melting point No information available.

Boiling point No information available.

Flash point No information available.

Evaporation rate No information available.

Flammability (solid, gas) No information available.

Lower explosion limit No information available.

Upper explosion limit No information available.

Vapor pressure No information available.

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Relative vapor density No information available.

Relative density 1.02 g/cm<sup>3</sup>

at 68 °F (20 °C)

Water solubility at 68 °F (20 °C)

soluble

Partition coefficient: n-

octanol/water

No information available.

Autoignition temperature No information available.

Decomposition temperature No information available.

Viscosity, dynamic No information available.

## SECTION 10. Stability and reactivity

#### Reactivity

See below

#### Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

### Possibility of hazardous reactions

Violent reactions possible with:

The generally known reaction partners of water.

A risk of explosion and/or of toxic gas formation exists with the following substances:

Amines

#### Conditions to avoid

no information available

### Incompatible materials

no information available

### Hazardous decomposition products

no information available

## **SECTION 11. Toxicological information**

### Information on toxicological effects

Likely route of exposure Eye contact, Skin contact

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Product number 109866 Version 1.1

Product name Nitrite standard 1000 mg NO₂(NaNO₂ in H₂O) Titrisol®

Acute oral toxicity

Acute toxicity estimate: > 2,000 mg/kg

Calculation method

Specific target organ systemic toxicity - single exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ systemic toxicity - repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard

Regarding the available data the classification criteria are not fulfilled.

#### Carcinogenicity

IARC No ingredient of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

ACGIH No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.

#### **Further information**

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

Further toxicological data:

After uptake of large quantities:

Systemic effects:

Tiredness, Dizziness, euphoria, agitation, Convulsions, narcosis, cardiovascular disorders

Other information

The following applies to nitrites in general: risk of methemoglobin formation. Possibility of formation of nitrosamines with secondary and in given circumstances even tertiary amines.

Nitrosamines have shown themselves to be carcinogenic in animal experiments.

Further data:

Handle in accordance with good industrial hygiene and safety practice.

### **SECTION 12. Ecological information**

# **Ecotoxicity**

No information available.

#### Persistence and degradability

No information available.

Bioaccumulative potential

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No information available.

# Mobility in soil

No information available.

#### Other adverse effects

Additional ecological information

Discharge into the environment must be avoided.

#### **SECTION 13. Disposal considerations**

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

### **SECTION 14. Transport information**

Land transport (DOT)

UN number UN 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (SODIUM NITRITE)

Class 9

Packing group III

Environmentally hazardous --

Air transport (IATA)

UN number UN 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (SODIUM NITRITE)

Class 9

Packing group III

Environmentally hazardous ---

Special precautions for user no

Sea transport (IMDG)

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UN number UN 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (SODIUM NITRITE)

Class 9

Packing group III

Environmentally hazardous --

Special precautions for user yes

EmS F-A S-F

## **SECTION 15. Regulatory information**

#### Canada

#### WHMIS Classification

D1B Toxic Material Causing Immediate and Serious Toxic Effects

Toxic by ingestion

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

### **Notification status**

TSCA: On TSCA Inventory

DSL: All components of this product are on the Canadian DSL list.

### **SECTION 16. Other information**

#### Training advice

Provide adequate information, instruction and training for operators.

# Full text of H-Statements referred to under sections 2 and 3.

H400 Very toxic to aquatic life.

# Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at www.wikipedia.org.

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to appropriate safety precautions. It does not represent a warranty of any product properties and we assume no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.

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