



S a f e t y   D a t a   S h e e t  
According to Regulation (EC) 1907/2006  
and (EU) 453/2010

## 1703 Sodium Nitrite

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

#### 1.1 Product identifier

Name:

Sodium Nitrite

**CAS:** [7632-00-0]

**REACH Registration Number:** 01-2119471836-27-XXXX

#### 1.2 Relevant identified uses of the substance or mixture:

For laboratory utilisation, analysis, research and fine chemistry.

#### 1.3 Identification of the company or firm:

PANREAC QUIMICA S.L.U.

C/Garraf 2

Polígono Pla de la Bruguera

E-08211 Castellar del Vallès

(Barcelona) Spain

Tel. (+34) 937 489 400

e-mail: [product.safety@panreac.com](mailto:product.safety@panreac.com)

#### 1.4 Emergency telephone:

Single telephone number for emergency calls: 112 (EU)

Tel.: (+34) 937 489 499

## 2. Identification of dangers

### 2.1 Classification of the substance or the mixture.

**Classification Regulation (CE) nº 1272/2008.**

Ox. Sol. 3

Acute Tox. 2

Aquatic Acute 1

**Classification (67/548/CEE or 1999/45/CE).**

<b>N</b>	Dangerous for the environment	R50
<b>T</b>	Toxic	R25
<b>O</b>	Oxidizing	R8

**2.2 Label elements:****Hazard Pictograms****Signal word**

Danger

**Hazard statements**

H272 May intensify fire; oxidiser.

H330 Fatal if inhaled.

H400 Very toxic to aquatic life.

**Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P220 Keep/Store away from clothing/combustible materials.

P221 Take any precaution to avoid mixing with combustibles.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

For the full text of the R-phrases mentioned in this section, see section 16.

**2.3 Other hazards:**

No further relevant information available.

**3. Composition/information on ingredients**

Name: Sodium Nitrite

Formula:  $\text{NaNO}_2$  M.= 69,00 CAS [7632-00-0]

EC number (EINECS): 231-555-9

EC index number: 007-010-00-4

REACH Registration Number: 01-2119471836-27-XXXX

**4. First aid measures**

#### **4.1 General indications:**

Never provide drink or induce vomiting in the event of loss of consciousness.

#### **4.2 Inhaling:**

Take the person out into the fresh air. In the event of suffocation, proceed to provide artificial respiration.

#### **4.3 Contact with the skin:**

Wash with plenty of water. Remove contaminated clothing.

#### **4.4 Eyes:**

Wash with plenty of water, keeping eyelids open. Seek medical assistance.

#### **4.5 Swallowing:**

Drink large amounts of water. Induce vomiting. Administer a solution of medical-usage active charcoal. Seek immediate medical assistance. Stomach lavage.

### **5. Firefighting measures**

#### **5.1 Suitable extinguishing media:**

As appropriate to the environment. Water.

#### **5.2 Unsuitable extinguishing media:**

No specific data.

#### **5.3 Special hazards arising from the substance or mixture:**

Incombustible. Encourages fire to break out. Keep away from combustible substances. In the event of fire, toxic fumes may form. Precipitate fumes formed with water.

#### **5.4 Advice for firefighters:**

Suitable clothing and footwear.

### **6. Accidental release measures**

#### **6.1 Personal precautions, protective equipment and emergency procedures:**

Do not inhale the dust.

#### **6.2 Environmental precautions:**

Do not allow it to enter the drainage system. Avoid pollution of the soil, water supplies and drains.

#### **6.3 Methods and material for containment and cleaning up:**

Collect up dry and deposit in waste containers for subsequent elimination in accordance with current legislation. Clean any remains with plenty of water.

### **7. Handling and storage**

#### **7.1 Precautions for safe handling:**

No special indications.

#### **7.2 Conditions for safe storage, including any incompatibilities:**

Well sealed containers. Dry atmosphere. Keep away from flammable substances, sources of ignition and heat.

**Recommended storage temperature:** Room temperature.

## **8. Exposure controls/personal protection**

### **8.1 Exposure controls:**

No special indications.

### **8.2 Control parameters:**

Data not available.

### **8.3 Respiratory protection:**

If dust forms, use suitable respiratory protection.

### **8.4 Hand protection:**

Use suitable gloves

### **8.5 Eye/face protection:**

Use suitable goggles.

### **8.6 Individual hygiene measures:**

Use suitable work clothing. Remove contaminated clothing. Wash hands before breaks and when the job is done.

### **8.7 Environmental exposure controls:**

Fulfill the commitments under local environmental protection legislation.

## **9. Physical and chemical properties**

Appearance: solid

Colour: White to slightly yellowish

Granulometry: N/A

Odour: Odourless.

pH: ~9 ((50 g/l))

Melting point/freezing point: 271 °C

Initial boiling point and boiling range:

N/A

Flash point:

N/A

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits:

N/A

Vapour pressure: N/A

Vapour density: N/A

Relative density:

Insertar Aquí Grupo de repetición

2,168 g/ml

Solubility: 820 g/l in water ( 20 °C )

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature:

N/A

Decomposition temperature: above 320 °C

Kinematic viscosity: N/A

Dynamic viscosity:

N/A

## **10. Stability and reactivity**

### **10.1 Conditions to avoid:**

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

### **10.2 Incompatible materials:**

Flammable substances. (There is a risk of explosion). Aluminium. Hydrazine and derivatives. Cyanides. Ammoniacal compounds Unsaturated hydrocarbons. Ethylene oxides.

### **10.3 Hazardous decomposition products:**

No specific data.

### **10.4 Chemical stability:**

Hygroscopic.

## **11. Toxicological information**

### **11.1 Acute toxicity:**

LD L0 oral man : 4-6 g/m3

LD L0 oral hmn : 71 mg/kg

LD50 oral rat : 85 mg/kg

LC50 inh rat : 5500 mg/m3

### **11.2 Dangerous effects for health:**

Through contact with the eyes: irritations Due to absorption: nausea narcosis cyanosis If it is absorbed in large quantities: vomiting loss of consciousness metahemoglobinemia with headaches hypotension breathing difficulties collapse

## **12. Environmental information**

### **12.1 Toxicity:**

#### **- EC50 test (mg/l):**

Bacteria (Ps. putida) EC0 123 mg/l

Classification: Highly toxic

Algae (M. aeruginosa) EC0 350 mg/l

Classification: Highly toxic

Protozoa (E. sulcatum) EC0 2,8 mg/l

Classification: Extr. toxic

#### **- Receptor medium:**

Risk for the water environment

Medium

Risk for the land environment

Medium

#### **- Observations:**

Acute ecotoxicity in the dumping area.

### **12.2 Persistence and Degradability :**

#### **- Test:**

#### **- Biotic degradation classification:**

BOD5/COD

Biodegradability

#### **- Abiotic degradation depending on pH:**

#### **- Observations:**

### **12.3 Bioaccumulative potential:**

- **Test:**

- **Bioaccumulation:**

Risk

- **Observations:**

### **12.4 Mobility in soil :**

Data not available.

### **12.5 Assessment PBT and MPMB :**

Data not available.

### **12.6 Other adverse effects:**

Do not allow it to enter soils or water channels.

## **13. Disposal considerations**

### **13.1 Waste treatment methods:**

In the European Union, there are no homogeneous standards established for elimination of chemical waste, which is waste of a special nature, and treatment and elimination of same is subject to the domestic legislation in each country.

In view of this, in each case, you should contact the competent authority or those companies legally authorized for elimination of waste.

2001/573/EC: Council Decision of 23 July 2001 amending Commission Decision 2000/532/EC as regards the list of wastes. Council Directive 91/156/EEC of 18 March 1991 amending Directive 75/442/EEC on waste.

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### **13.2 Contaminated containers:**

Contaminated containers and packaging of dangerous substances or preparations must be treated in the same manner as the actual products contained in them.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

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## **14. Transport information**

Overland (ADR):

Technical name: SODIUM NITRITE

UN 1500 Class: 5.1 6.1 PELIG.M.AMB Packaging group: III (E)

By sea (IMDG):

Technical name: SODIUM NITRITE

UN 1500 Class: 5.1 6.1 PELIG.M.AMB Packaging group: III

By air (ICAI-IATA):

Technical name: Sodium nitrite

UN 1500 Class: 5.1 6.1 PELIG.M.AMB Packaging group: III

Packaging instructions: CAO 563 PAX 559

## **15. Regulatory information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

## **16. Other information**

**Other precautionary statements**

P273 Avoid release to the environment.

P280 Wear protective gloves, protective clothing, eye protection or face protection.

P284 Wear respiratory protection.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P310 Immediately call a POISON CENTER or doctor/physician.

P320 Specific treatment is urgent (see on this label).

P370+P378 In case of fire: Use for extinction.

P391 Collect spillage.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

**Labelling (65/548/CEE or 1999/45/CE)**

R-phrase(s):     **R50** Very toxic to aquatic organisms.  
                          **R25** Toxic if swallowed.  
                          **R8** Contact with combustible material may cause fire.

S-phrase(s):     **S61** Avoid release to the environment. Refer to special instructions/safety data sheets.  
                          **S45** In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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Date published: 15.09.2011

In respect of the previous review, changes have been made to the following sections: 15

The information included in this Safety Data Sheet is based on our most up-to-date knowledge, and is solely intended to inform regarding aspects of safety; the properties and characteristics indicated herein are not guaranteed.