

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Sodium nitrite, 50 g

Print date: 14.04.2015

Product code: 9991694

Page 1 of 8

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Sodium nitrite, 50 g

CAS No: 7632-00-0
Index No: 007-010-00-4
EC No: 231-555-9

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

Laboratory chemicals

1.3. Details of the supplier of the safety data sheet**Seller**

Company name: CONATEX-DIDACTIC Lehrmittel GmbH
Street: Im Forstgarten 1
Place: D-66459 Kirkel
Internet: www.conatex.com

Supplier

Company name: Carbolution Chemicals GmbH
Street: Im Stadtwald, Gebäude A1.2
Place: D-66123 Saarbrücken
Contact person: Dr. Michael Bauer Telephone: +49 (0)681 302-71232
e-mail: michael.bauer@carbolution-chemicals.de
Internet: www.carbolution-chemicals.de

1.4. Emergency telephone number: +49 (0)681 302-71232**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to Directive 67/548/EEC or 1999/45/EC**

Indications of danger: O - Oxidizing, T - Toxic, N - Dangerous for the environment

R phrases:

Contact with combustible material may cause fire.

Toxic if swallowed.

Very toxic to aquatic organisms.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard categories:

Oxidising solid: Ox. Sol. 3

Acute toxicity: Acute Tox. 3

Hazardous to the aquatic environment: Aquatic Acute 1 (M-Factor = 1)

Hazard Statements:

May intensify fire; oxidiser.

Toxic if swallowed.

Very toxic to aquatic life.

2.2. Label elements**Hazardous components which must be listed on the label**
sodium nitrite

Signal word: Danger

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Sodium nitrite, 50 g

Print date: 14.04.2015

Product code: 9991694

Page 2 of 8

Pictograms:

GHS01-GHS06-GHS09



Hazard statements

- H201 Explosive; mass explosion hazard.
H301 Toxic if swallowed.
H400 Very toxic to aquatic life.

Precautionary statements

- P273 Avoid release to the environment.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

SECTION 3: Composition/information on ingredients

3.1. Substances

- Sum formula: NNaO2
Molecular weight: 69,00

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
231-555-9	sodium nitrite	100 %
7632-00-0	O - Oxidizing, T - Toxic, N - Dangerous for the environment R8-25-50	
007-010-00-4	Ox. Sol. 3, Acute Tox. 3, Aquatic Acute 1; H272 H301 H400	

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

Provide fresh air. Medical treatment necessary.

After contact with skin

Wash with plenty of water. Change contaminated clothing. Medical treatment necessary.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

After ingestion

Rinse mouth immediately and drink plenty of water. Induce vomiting when the affected person is not unconscious. Call a physician immediately.

4.3. Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Sodium nitrite, 50 g

Print date: 14.04.2015

Product code: 9991694

Page 3 of 8

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

The product itself does not burn.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition. Provide adequate ventilation. Avoid generation of dust. Do not breathe dust. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust.

Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. Keep in a cool place. Keep away from sources of ignition. - No smoking.

Advice on storage compatibility

Keep away from combustible material.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****8.2. Exposure controls****Appropriate engineering controls**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust.

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

Eye/face protection

Eye protection: Tightly sealed safety glasses. German Industry Norms (DIN) / European Norms (EN): DIN EN 166

Hand protection

Hand protection: Single-use gloves. Before using check leak tightness / impermeability. Use gloves

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Sodium nitrite, 50 g

Print date: 14.04.2015

Product code: 9991694

Page 4 of 8

only once. German Industry Norms (DIN) / European Norms (EN): DIN EN 374

Skin protection

Body protection: Lab apron. Only wear fitting, comfortable and clean protective clothing.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Suitable respiratory protective equipment: particulates filter device (DIN EN 143).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	solid
Colour:	colourless
Odour:	No data available

Test method

pH-Value:	9
-----------	---

Changes in the physical state

Melting point:	271 °C
Initial boiling point and boiling range:	320 °C
Sublimation point:	No data available
Softening point:	No data available
Flash point:	No data available

Flammability

Solid:	No data available
Gas:	No data available
Lower explosion limits:	No data available
Upper explosion limits:	No data available
Ignition temperature:	No data available

Auto-ignition temperature

Solid:	No data available
Gas:	No data available
Vapour pressure:	No data available
Vapour pressure:	No data available
Density:	2,168 g/cm ³
Water solubility: (at 20 °C)	820 g/L
Partition coefficient:	-3,7
Viscosity / dynamic:	No data available
Viscosity / kinematic:	No data available
Flow time:	No data available
Vapour density:	No data available
Evaporation rate:	No data available
Solvent separation test:	No data available
Solvent content:	No data available

9.2. Other information

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Sodium nitrite, 50 g

Print date: 14.04.2015

Product code: 9991694

Page 5 of 8

Solid content:

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

In case of impact or pressure influence: Explosion hazard. Remove all sources of ignition. Keep away from heat. Ignition hazard.

10.5. Incompatible materials

Keep away from: material, combustible.

10.6. Hazardous decomposition products

No data available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution

Toxicological data are not available.

Acute toxicity

Toxic. Acute toxicity, dermal.

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
7632-00-0	sodium nitrite				
	oral	LD50	180 mg/kg	Ratte	

Irritation and corrosivity

No data available

Sensitising effects

No data available

Severe effects after repeated or prolonged exposure

No data available

Carcinogenic/mutagenic/toxic effects for reproduction

Due to missing data no statement can be made whether the substance fulfills the criteria of CMR categories 1 or 2. Practical experiences do not give any evidence for CMR activity of categories 1 or 2.

Specific effects in experiment on an animal

No data available

Additional information on tests

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

Practical experience

Observations relevant to classification

No data available

SECTION 12: Ecological information

12.1. Toxicity

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Sodium nitrite, 50 g

Print date: 14.04.2015

Product code: 9991694

Page 6 of 8

Very toxic to aquatic life.

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h] [d]	Species	Source
7632-00-0	sodium nitrite					
	Acute fish toxicity	LC50 mg/l	0,56 - 1,78	96 h	Onchorhynchus mykiss	
	Acute crustacea toxicity	EC50 mg/l	12,5 - 100	48 h	Daphnia magna	

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
7632-00-0	sodium nitrite	-3,7

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

No data available

Further information

Do not allow to enter into surface water or drains. The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

Waste disposal number of waste from residues/unused products

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals
Classified as hazardous waste.

Waste disposal number of used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals
Classified as hazardous waste.

Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances
Classified as hazardous waste.

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Sodium nitrite, 50 g

Print date: 14.04.2015

Product code: 9991694

Page 7 of 8

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:	UN1500
14.2. UN proper shipping name:	SODIUM NITRITE
14.3. Transport hazard class(es):	5.1
14.4. Packing group:	III
Hazard label:	5.1+6.1
Classification code:	OT2
Limited quantity:	5 kg
Transport category:	3
Hazard No:	56
Tunnel restriction code:	E

Other applicable information (land transport)

E1

Inland waterways transport (ADN)

14.1. UN number:	UN1500
14.2. UN proper shipping name:	SODIUM NITRITE
14.3. Transport hazard class(es):	5.1
14.4. Packing group:	III
Hazard label:	5.1+6.1
Classification code:	OT2
Special Provisions:	802
Limited quantity:	5 kg

Other applicable information (inland waterways transport)

E1

Marine transport (IMDG)

14.1. UN number:	UN1500
14.2. UN proper shipping name:	SODIUM NITRITE
14.3. Transport hazard class(es):	5.1
14.4. Packing group:	III
Hazard label:	5.1+6.1
Special Provisions:	-
Limited quantity:	5 kg
EmS:	F-A, S-Q

Other applicable information (marine transport)

E1

Air transport (ICAO)

14.1. UN number:	UN1500
14.2. UN proper shipping name:	SODIUM NITRITE
14.3. Transport hazard class(es):	5.1
14.4. Packing group:	III
Hazard label:	5.1+6.1
Limited quantity Passenger:	10 kg
IATA-packing instructions - Passenger:	559
IATA-max. quantity - Passenger:	25 kg

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Sodium nitrite, 50 g

Print date: 14.04.2015

Product code: 9991694

Page 8 of 8

IATA-packing instructions - Cargo: 563
IATA-max. quantity - Cargo: 100 kg

Other applicable information (air transport)

E1
: Y546

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information****Additional information**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

National regulatory information

Water contaminating class (D): 2 - water contaminating

SECTION 16: Other information**Relevant R-phrases (Number and full text)**

08 Contact with combustible material may cause fire.
25 Toxic if swallowed.
50 Very toxic to aquatic organisms.

Relevant H- and EUH-phrases (Number and full text)

H201 Explosive; mass explosion hazard.
H272 May intensify fire; oxidiser.
H301 Toxic if swallowed.
H400 Very toxic to aquatic life.