# Scientific Laboratory Supplies - Safety Data Sheet

**CHE3500** 

16 April 2021

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 1.1 Revision date: Date printed: 16 September 2024

# **Section 1. Identification**

**Product Identifier** CHE3500

> Product Name SODIUM NITRITE pure 500g.

CAS Number

**REACH Registration No** 01-2119471836-27-XXXX

NaNO =69.00 Molecular Formula

## 1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

#### 1.3 **Supplier** Scientific Laboratory Supplies



Unit 6, Foresters Avenue Fairham Business Park

Fairham Nottingham NG112AF

UNITED KINGDOM

Phone 0115 9821111 Fax 0115 9825275

Email sales@scientific-labs.com

#### 0115 9821111 **Emergency Telephone** (08:00-17:00)

(24hr) 112 (Have this document to hand)

# Section 2. Hazards Identification

## 2.1 Classification of the substance or mixture

# Classification according to regulation 1272/2008/EC

Oxidising solid, category 3 Acute toxicity, category 3 (oral)

Serious eye damage/irritation, category 2 Hazard to aquatic environment, category 1 H272: May intensify fire; oxidizer.

H301: Toxic if swallowed.

H319: Causes serious eye irritation. H400: Very toxic to aquatic life.

## 2.2 Label elements

## Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms







**Hazard Statements** May intensify fire; oxidizer. Toxic if swallowed. Causes serious eye irritation. Very toxic to aquatic life. **Precautionary Statements** 

Keep away from heat / sparks/open flames/hot surfaces - No smoking. Keep / Store away from clothing / combustible materials. Take any precaution to avoid mixing with combustibles... Wear protective gloves / protective clothing / eye protection. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing.

# **Section 3. Composition**

#### 3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Sodium nitrite	7632-00-0	231-555-9	01-2119471836-27-XXXX	>97%	Ox. Sol. 3,Acute Tox. 3 (O),Eye Irrit. 2,Aquatic Acute 1

# Section 4. First Aid

#### 4.1 Description of first aid measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. If discomfort persists

OBTAIN MEDICAL ATTENTION.

Skin Wash off skin thoroughly with water.

Inhalation Remove from exposure. If material has reacted with an acid to form, nitrous fumes, Obtain immediate medical

attention even if patient is not complaining of discomfort.

Ingestion If conscious give plenty of water to drink. Keep warm and at rest. If there is difficulty in breathing give oxygen if

available. If breathing stops or shows signs of failing, apply artificial resuscitation. OBTAIN MEDICAL

ATTENTION URGENTLY.

Personal protection for first Wear protective gloves / eye protection.

aiders

## 4.2 Most important symptoms and effects, both acute & delayed.

No further relevant information available.

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

No further relevant information available.

# **Section 5. Fire Fighting**

# 5.1 Extinguishing media

Extinguishing Media Water spray.
Unsuitable Media Nothing specified.

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

Hazards May evolve toxic fumes if involved in a fire. Mixtures with combustible materials are flammable. Mixtures with

finely divided combustible materials can react explosively.

## 5.3 Advice for firefighters

Advice for firefighters Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear

protective clothing and breathing apparatus.

# Section 6. Accidental Release Measures

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

Personal Protection Evacuate area immediately. If contact with acid is possible, use full protective clothing and breathing apparatus.

### 6.2 Environmental precautions

Environmental Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local

Environmental Health Officer if major spillage occurs.

## 6.3 Methods and material for containment and cleaning up

Major Spillage Shovel/sweep up into container for removal Wash area down with copious amounts of water.

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Minor Spillage Wash area down with copious amounts of water.

#### 6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

# Section 7. Storage & Handling

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains dust concentrations to a minimum.

## 7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage. Store in a suitable area for oxidising agents. Keep well separated from combustible materials.

#### 7.3 Specific end use(s)

See section 1.2.

# Section 8. Workplace Exposure & Personal Protection

#### 8.1 Control parameters

Component	CAS No	Concentration	Workplace Exposure Limits				
			Long Term (8hr	TWA)	Short Term 1	Short Term 15min period)	
Sodium nitrite	7632-00-0	>97%	-	-	-	-	

Exposure data source(s) No occupational exposure data currently available.

## 8.2 Exposure controls

Respiratory Protection If process creates significant amounts of dust use L.E.V. or wear suitable dust mask.

Hand Protection Wear gloves

Skin Protection Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.

Special Hazards No special precautions required.

# Section 9. Physical & Chemical Properties

### 9.1 Information on basic physical and chemical properties

Appearance White or pale yellow tinted crystals or crystalline powder.

Odour No specific odour. pH 9 @ 20°C solution.

Boiling Point 320°C
Melting Point 271°C
Flash Point Not applicable
Upper Flammable Limit Not applicable
Lower Flammable Limit Not applicable
Auto Ignition Not applicable

Explosive Properties No.

Oxidising Properties A strong oxidising agent.

Vapour Pressure Not applicable Relative Density 2.1700 Water Solubility 67%

## 9.2 Other information

No data available.

# Section 10. Stability & Reactivity

**10.1** Reactivity No data available.

**10.2** Chemical Stability Stable under normal conditions

**10.3** Possibility of hazardous No data available.

reactions

**10.4** Conditions to Avoid Avoid contact with acids or combustible materials.

10.5 Incompatable Materials Acids: reacts to form poisonous nitrous fumes. Combustible materials. Ammonium salts, phthalic anhydride,

thiosulphates, or urea. Cyanides.

10.6 Hazardous Decomposition Not flammable but will assist a fire, producing irritant and toxic fumes of oxides of nitrogen.

Products

# Section 11. Toxicological Information

#### 11.1 Information on toxicological effects

Eyes Causes serious eye irritation.

Skin The solid and solutions may be irritating to the skin.

LD50 Skin Not available

Ingestion Toxic if swallowed. Repeated small doses cause a fall in blood pressure, rapid pulse, headache and visual

disturbances. Larger doses cause nausea, vomiting, cyanosis, collapse and coma.

LD50 Oral 180mg/kg Rat

Inhalation Presents no significant health hazard by inhalation.

LD50 Inhalation Not available
TCLo Not available

Carcinogenicity Not considered to be a carcinogen.

Mutagenicity A mutagen.

Reproductive Effects None identified.

# Section 12. Ecological

12.1 Toxicity Low levels are readily bio-degraded in the environment. Higher levels are toxic to marine and plant life. LC50,

24hr, Rainbow trout 0.56-17.4 mg/l; EC50 24hr, Daphnia magna 87-144 mg/l. Repeated exposure of up to 0.05

mg/l produces no adverse effect on fish growth.

LC50 Algal Not available

LC50 Crustacea 87mg/kg Daphnia (24 hours)

LC50 Fish 0.56mg/kg Rainbow trout (24 hours)

**12.2** Persistence and No data available.

degradability

N- d-4- ---:1-1-1-

12.3 Bioaccumulative potential No data available.12.4 Mobility in soil No data available.

**12.5** Results of PBT & vPvB

assessment

Assessment not required.

**12.6** Other adverse effects None known at present.

# Section 13. Disposal Considerations

#### 13.1 Waste treatment methods

Disposal Methods Dilute with water and add sodium bicarbonate or soda ash. Add an equal volume of calcium hypochlorite solution

and stir. Stand for 1 hour then neutralise with either hydrochloric acid or sodium hydroxide solution. Wash to drain with excess of water. Larger quantities should be sent for disposal by an authorised waste disposer.

Contaminated Packaging Wash out containers with water.

# Section 14. Transport Information

**14.1 UN Number** 1500

14.2 Proper Shipping Name Sodium nitrite

14.3 Transport classes

UN classification 5.1 Subsidiary hazard(s) 6.1 Transport category 3 ADR Hazard ID 56 Tunnel Restriction Code E

14.4 Packing Group III

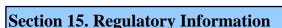
**14.5 Environment hazards** See section 12.

14.6 Special precautions for

No special precautions required.

user

**14.7 Transport in bulk** Not transported in bulk.



15.1 Safety, health and environment regulations specific for subtance/mixture.

Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Oxidising solid, category 3; Acute toxicity, category 3 (oral); Serious eye damage/irritation, category 2; Hazard to

aquatic environment, category 1

Signal word Danger

Hazard Pictograms







**OXIDIZING** 

**AGENT** 

TOXIC

Hazard Statements H272, H301, H319, H400

May intensify fire; oxidizer. Toxic if swallowed. Causes serious eye irritation. Very toxic to aquatic life.

Precautionary Statements P210, P220, P221, P280, P301+P310, P305+P351+P338

Keep away from heat / sparks/open flames/hot surfaces - No smoking. Keep / Store away from clothing / combustible materials. Take any precaution to avoid mixing with combustibles... Wear protective gloves / protective clothing / eye protection. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses

if present and easy to do and continue rinsing.

## 15.2 Chemical safety assessment

Assessment not required.

# **Section 16. Other Information**

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

Revision number: 1.1 (Supercedes revision 1.0)

Revision date: 16 April 2021

Reviewed by chemist: 16 April 2021

Printed date: 16 September 2024

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