Camlab Limited – Material Safety Data Sheet

1110667

1. Identification

Product Code 1110667

Product Name SODIUM NITRITE pure

Molecular Formula NaNO₂ =69.00

CAS Number 7632-00-0

Supplier:

camlab

CAMLAB LIMITED

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(Have this document to hand)

2. Composition

Component	CAS No	EEC No	Conc w/w	Classification & Risk Phrases	Exp (See 8.1)
Sodium nitrite	7632-00-0	231-555-9	> 97.0%	O T N : R8,R25,R50	N/A

3. Hazards Identification







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

4. 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.

5. Fire Fighting Measures

Hazards Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus. May evolve toxic fumes if

involved in a fire. Mixtures with combustible materials are flammable. Mixtures with finely

divided combustible materials can react explosively.

Extinguishing

Media

Water spray.

Unsuitable

Nothing specified.

Media

6. Accidental Release Measures

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

Protection and breathing apparatus.

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.

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

Minor Spillage Wash area down with copious amounts of water.

7. Storage & Handling

Handling Precautions 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.

Storage Conditions Well ventilated, cool, dry storage . Store in a suitable area for oxidising agents. Keep

well separated from combustible materials.

8.1 Workplace Exposure Limits

No prescribed exposure limits available

8.2 Personal Protection

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

Hands Wear gloves.

Eyes Use chemical splash proof glasses or goggles.

Skin Avoid contact with skin. If skin contact or contamination of clothing is likely, protective

clothing must be worn.

9. Physical & Chemical Properties

Appearance White or pale yellow tinted crystals or crystalline powder.

Odour No specific odour.

pH 9 (In solution)

Boiling point 320.0 °C

Melting point 271.0 °C

Flash point Not available

Flash point

Upper Flammable Limit

Lower Flammable Limit

Not available

Not available

Not available

Explosive properties No.

Oxidising Properties A strong oxidising agent.

Vapour Presure Not available Relative Density 2.1700 °C Water Solubility 67%

10. Stability & Reactivity

Chemical Stability Stable under normal conditions

Conditions to Avoid Avoid contact with acids or combustible materials.

Materials to Avoid Acids : reacts to form poisonous nitrous fumes. Combustible materials. Ammonium salts,

phthalic anhydride, thiosulphates, or urea. Cyanides.

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

Decomposition Products nitrogen.

11. Toxicological Information

Contact with the solid or dust may be irritating to the eyes. Eyes

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

LD50 Skin Not available

Ingest 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 Ingest Oral Rat 85mg/Kg

Presents no significant health hazard by inhalation. Inhalation

Carcinogenicity Not considered to be a carcinogen.

Mutagenicity A mutagen.

Reproductive Effects None identified.

12. Ecological

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.

13. Disposal Considerations

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.

14. Transport Information

Proper Shipping Name Sodium Nitrite

1500 UN Number

UN Classification 5.1 Oxidising agent

Subsidiary Risk 6.1 Toxic Not available Flash Point

Packing Group III Transport Category Marine pollutant No ADR Hazard ID 56





15. Regulatory Information

Labelling Oxidising, Toxic, Dangerous for the Environment.

Classification

Label Symbols







Risk & safety Phrases

Contact with combustible material may cause fire. Toxic if swallowed. Very toxic to aquatic organisms. Keep locked up and out of reach of children. In case of accident or if you feel unwell, seek medical advice immediately (show the label). Avoid release to the environment,

refer to special instructions/safety data sheet.

EEC Number 231-555-9

16. Other Information

Document Information

This document has been prepared in accordance with directive 88/379/EEC.

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment.

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