Camlab Limited – Material Safety Data Sheet 1110668

1. Identification

Product Code **1110668**

Product Name **SODIUM NITRITE pure**

Molecular Formula **$NaNO_2$ =69.00**

CAS Number **7632-00-0**

Supplier: **CAMLAB LIMITED**

Norman Way Industrial Estate
Over
Cambridge
England
CB4 5WE

Phone **01954 233110**
Fax **01954 233101**

Emergency Telephone **08:00-17:00 01954 233110**
24hr 112
(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 Media: Nothing specified.

6. Accidental Release Measures

Personal Protection	Evacuate area immediately. If contact with acid is possible, use full protective clothing and breathing apparatus.
Enviromental	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
Upper Flammable Limit	Not available
Lower Flammable Limit	Not available
Auto Ignition	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 Decomposition Products	Not flammable but will assist a fire, producing irritant and toxic fumes of oxides of nitrogen.

11. Toxicological Information

Eyes	Contact with the solid or dust may be irritating to the eyes.
Skin	The solid and solutions may be irritating to the 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
Inhalation	Presents no significant health hazard by 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
UN Number	1500
UN Classification	5.1 Oxidising agent
Subsidiary Risk	6.1 Toxic
Flash Point	Not available
Packing Group	III
Transport Category	3
Marine pollutant	No
ADR Hazard ID	56

15. Regulatory Information

Labelling Classification	Oxidising, Toxic, Dangerous for the Environment.
Label Symbols	O T N

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.

Revision Date: 19/11/03.
Data reviewed and PDF file generated: 17/03/10.