



SAFETY DATA SHEET

SODIUM NITRITE

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY:

PRODUCT NAME: SODIUM NITRITE
PART No.: RM251
SUPPLIER: J M Loveridge plc
Southbrook Road, Southampton
Hampshire
SO15 1BH
Tel: 023 8022 2008
Fax: 023 8022 2117

2. COMPOSITION/INFORMATION ON INGREDIENTS:

EU INDEX No.: 007-010-00-4
EEC (EINECS) No. 231-555-9
CAS No.: 7632-00-0

3. HAZARDS IDENTIFICATION:

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

4. FIRST AID MEASURES:

GENERAL: IN ALL CASES OF DOUBT OR WHEN SYMPTOMS PERSIST, ALWAYS SEEK MEDICAL ATTENTION

INHALATION: Remove affected person from exposure, rest and keep warm. If recovery not rapid or complete seek medical attention.

INGESTION: DO NOT INDUCE VOMITING. In case of spontaneous vomiting, be sure that vomit can freely drain because of danger of suffocation. Only when conscious, rinse mouth with plenty of water and give plenty of water to drink - (approx 500ml). Keep patient at rest and obtain medical attention.

SKIN: Remove contaminated clothing. Wash affected area with plenty of soap and water. If irritation persists, seek medical attention. Launder clothing before re-use.

EYES: Rinse immediately with plenty of water for at least 5 minutes while lifting the eye lids. Seek medical attention. Continue to rinse.

5. FIRE FIGHTING MEASURES:

EXTINGUISHING MEDIA:	Use extinguishing media suitable against surrounding fire or the cause of fire.
UNUSUAL FIRE & EXPLOSION HAZARDS:	May ignite combustible materials. Mixtures with fuel may explode. Explosion hazard when vapours are exposed to flames.
HAZARDOUS COMBUSTION PRODUCTS:	Noxious or toxic vapours may be released in fire situation. - oxides of nitrogen and oxygen.
PROTECTIVE MEASURES IN FIRE:	Fire fighters should wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES:

PERSONAL PRECAUTION IN SPILL:	Avoid breathing dust. Wear appropriate protective clothing. Eliminate all sources of ignition.
PRECAUTIONS TO PROTECT ENVIRONMENT:	Prevent material from entering drains or water courses. Advise the Environment Agency or relevant local authority if contamination of soil or water systems occurs.
SPILL CLEANUP METHODS:	Take-up spillage with absorbent, inert material and place in a suitable and closable labelled container for recovery or disposal. Do not use combustible materials (such as sawdust) to soak-up spillages. Wash the area clean with water and detergent, observing environmental requirements.

7. HANDLING AND STORAGE:

USAGE PRECAUTIONS:	HANDLING - Product should be used in accordance with good industrial principles for handling and storing of hazardous chemicals. Ensure good ventilation and local exhaust extraction in work place.
STORAGE PRECAUTIONS:	Oxidizing material - Keep away from flammable and combustible materials. Store in a cool, dry, well ventilated place, in securely closed original container.
STORAGE CRITERIA:	Oxidizer storage.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

INGREDIENT COMMENTS:	No specific OES assigned, however for dusts of any kind, ensure LTEL (8-hour TWA ref. period) level does not exceed 10 mg.m ³ for total inhalable dust or 4 mg.m ³ for respirable dust (or) as recommended in current edition of EH40.
VENTILATION:	Provide adequate general and local exhaust ventilation.
RESPIRATORS:	In case of insufficient ventilation, for short periods of work, a suitable approved dust protection to P2 standard is recommended.
PROTECTIVE GLOVES:	Use protective gloves.
EYE PROTECTION:	Use eye protection if eye contact is likely.
OTHER PROTECTION:	Wear personal protective equipment appropriate to the quantity of material handled.
HYGIENIC WORK PRACTICES:	SKIN PROTECTION - apply barrier cream to hands and exposed skin. Regularly vacuum dust to minimise the potential of air-borne exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE:	White to pale yellow crystalline solid.		
PHYSICAL DATA COMMENTS:	Not flammable, but will increase flammability of other materials.		
MELT/FREEZ. POINT (°C, interval):	mp. 281°C		
DENSITY/SPECIFIC GRAVITY (g/ml):	2.2	Temperature (°C):	20°C
BULK DENSITY:	1.3 kg/l		
SOLUBILITY DESCRIPTION:	Very soluble in water.		
DECOMPOSITION TEMP. (°C):	~ 320		

10. STABILITY AND REACTIVITY:

STABILITY:	Stable under normal conditions of use.		
CONDITIONS TO AVOID:	Avoid heat, flames and other sources of ignition. Store away from reactive materials.		
MATERIALS TO AVOID:	Ammonium salts, amines, cyanides, carbon. Strong acids, flammable solvents, combustible materials and reducing agents.		
HAZARDOUS DECOMP. PRODUCTS:	Thermal decomposition may release noxious, toxic or corrosive gases or vapours. - oxides of nitrogen. Oxygen is readily liberated when product is heated and can burn with explosive violence when fuels or organic materials are present. Reacts violently when heated with ammonium salts and cyanides.		

11. TOXICOLOGICAL INFORMATION:

TOXIC DOSE - LD 50:	85 mg/kg (oral rat)		
HEALTH HAZARDS, GENERAL:	Irritating to eyes or if inhaled as dust.		
INHALATION:	Harmful if inhaled as dust. Product may be absorbed through lungs and may cause symptoms similar to those of ingestion.		
INGESTION:	Toxic by ingestion. Symptoms may include headache, dizziness, visual disturbances and loss of consciousness.		
SKIN:	Irritating to skin. Can be absorbed through skin causing systemic effects.		
EYES:	May cause eye irritation.		
HEALTH WARNINGS:	Studies have provided no evidence that sodium nitrite is carcinogenic to man. It may however react with amine compounds in the diet to form carcinogenic nitrosamines.		
MEDICAL SYMPTOMS:	Symptoms of intoxication may include cyanosis, rapid shallow breathing, lowered blood pressure and increased heart rate. In severe cases methaemoglobineamia may occur and prove fatal.		

12. ECOLOGICAL INFORMATION:

Ecotoxicological data	EC50 24 hours Daphnia magna 87 - 144 mg/l
LC 50, 96 HRS, FISH mg/l:	Rainbow trout = 0.56 - 17.4 mg/l
ECOLOGICAL INFORMATION:	Toxic to aquatic organisms. Evidence is available of inhibition of aerobic processes.
MOBILITY:	Soluble in water. Predicted to have high mobility in soil. Expected to disperse quickly within water systems.
BIO ACCUMULATION:	Not expected to bio-accumulate.

13. DISPOSAL CONSIDERATIONS:

DISPOSAL METHODS:	This material and/or its container must be disposed of as hazardous waste according to Special Waste Regulations 1996 or according to local regulations, in compliance with Duty of Care Regulations and Special Waste Regulations.
WASTE CLASS:	WASTE CODE: 0705** HAZARDOUS PROPERTY: H2, H5, H14

14. TRANSPORT INFORMATION:

UK ROAD PACK GR.:	III
ADR CLASS No.:	5.1
ADR CLASS:	Division 5.1: Oxidizing substances. - Subsidiary class 6.1: Toxic substance
ADR ITEM No.:	23°(c)
HAZARD No. (ADR):	50 Oxidizing (fire-intensifying) substance.
ADR MARGINAL:	2501
ADR LABEL No.:	5.1 + 06.1
HAZCHEM CODE:	1Z
PROPER SHIPPING NAME I:	SODIUM NITRITE
UN No. SEA:	UN 1500
IMDG CLASS:	5.1
IMDG PAGE No.:	5181
IMDG PACK GR.:	III
SEA TRANSPORT NOTES:	Subsidiary risk label required - class 6.1
UN No., AIR:	UN-ID 1500
ICAO CLASS:	5.1
AIR SUB CLASS:	6.1
AIR PACK GR.:	III

15. REGULATORY INFORMATION:

LABEL FOR SUPPLY:



RISK PHRASES:

R-8 Contact with combustible material may cause fire.
R-25 Toxic if swallowed.
R-50 Very toxic to aquatic organisms.

SAFETY PHRASES:

S-1/2 Keep locked up and out of the reach of children.
S-45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S-61 Avoid release to the environment. Refer to special instructions/ Safety Data Sheets.

UK REGULATORY REFERENCES:

Chemicals (Hazard Information & Packaging) Regulations 1993. Classification, Packaging and Labelling Regulations 1984.

16. OTHER INFORMATION:

INFORMATION SOURCES:

This product has been classified in accordance with CHIP3 regulations.

REVISION COMMENTS:

Edition 01; Revised item(s):

ISSUED BY:

MK

SDS No.:

451

DATE:

12/07/02

DISCLAIMER:

The foregoing data has been compiled for safety information only and does not form part of any selling specification. Information contained in this Data Sheet is to the best of JMLs knowledge correct at the time of publication. Customers should always satisfy themselves, that the product which they have selected is entirely suitable for their purpose under their conditions of use and in compliance with current regulations. For any further information, please contact the supplier.