



# SAFETY DATA SHEET

## BISMUTH SUBNITRATE

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

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PRODUCT NAME:	BISMUTH SUBNITRATE
PART No.:	RM042
SYNONYMS, TRADE NAMES:	BISMUTH OXYNITRATE
SUPPLIER:	J M Loveridge plc Southbrook Road, Southampton Hampshire SO15 1BH Tel: 023 8022 2008 Fax: 023 8022 2117

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### 2. COMPOSITION/INFORMATION ON INGREDIENTS:

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EU INDEX No.: - - -

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### 3. HAZARDS IDENTIFICATION:

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Irritating to skin. Contact with combustible material may cause fire.

Bismuth subnitrate is an oxidising agent.

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### 4. FIRST AID MEASURES:

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GENERAL:	IN ALL CASES OF DOUBT OR WHEN SYMPTOMS PERSIST, ALWAYS SEEK MEDICAL ATTENTION
INHALATION:	Move affected person to fresh air.If recovery not rapid, 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:	Wash affected area with plenty of soap and water. If irritation persists, seek medical attention.
EYES:	Rinse immediately with plenty of water for at least 5 minutes while lifting the eye lids. Seek medical attention. Continue to rinse.

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### 5. FIRE FIGHTING MEASURES:

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<b>EXTINGUISHING MEDIA:</b>	Use extinguishing media suitable against surrounding fire or the cause of fire.
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b>	Take measures to retain water used for extinguishing. Do not release contaminated water into drains, soil and surface water. Dispose of contaminated water and soil according to local regulations.
<b>UNUSUAL FIRE &amp; EXPLOSION HAZARDS:</b>	May ignite combustible materials.
<b>HAZARDOUS COMBUSTION PRODUCTS:</b>	Toxic or corrosive vapours may be released in fire situation. Thermal decomposition may evolve oxides of nitrogen.
<b>PROTECTIVE MEASURES IN FIRE:</b>	Fire fighters should wear self-contained breathing apparatus.

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## 6. ACCIDENTAL RELEASE MEASURES:

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<b>PERSONAL PRECAUTION IN SPILL:</b>	Avoid breathing dust.
<b>PRECAUTIONS TO PROTECT ENVIRONMENT:</b>	Prevent contamination of soil, drains and surface water.
<b>SPILL CLEANUP METHODS:</b>	Take-up spillage with absorbent, inert material and place in a suitable and closable labelled container for recovery or disposal. Wash the area clean with water and detergent, observing environmental requirements.

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## 7. HANDLING AND STORAGE:

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

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## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

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<b>INGREDIENT COMMENTS:</b>	No specific OES assigned, however for dusts of any kind, ensure LTEL (8-hour TWA ref. period) level does not exceed 10 mg.m3 for total inhalable dust or 4 mg.m3 for respirable dust (or) as recommended in current edition of EH40.
<b>VENTILATION:</b>	Provide adequate general and local exhaust ventilation.
<b>RESPIRATORS:</b>	If unable to control dust emissions below OES limits, an approved dust protection to P2 level of protection is recommended.
<b>PROTECTIVE GLOVES:</b>	Use impervious gloves made of butyl rubber or PVC.
<b>EYE PROTECTION:</b>	Use eye protection.
<b>HYGIENIC WORK PRACTICES:</b>	<b>SKIN PROTECTION</b> - apply barrier cream to hands and exposed skin. Regularly vacuum dust to minimise the potential of air-borne exposure.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES:

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**APPEARANCE:** White powder.

**SOLUBILITY DESCRIPTION:** Insoluble in water.

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## 10. STABILITY AND REACTIVITY:

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**STABILITY:** Stable under normal conditions of use.

**CONDITIONS TO AVOID:** Avoid heat.

**MATERIALS TO AVOID:** Combustible materials.

**HAZARDOUS DECOMP. PRODUCTS:** Thermal decomposition or burning may release toxic and corrosive oxides of nitrogen.

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## 11. TOXICOLOGICAL INFORMATION:

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**TOXICOLOGICAL INFORMATION:** Low order of acute toxicity. Used therapeutically in doses of up to 10g per day.

**TARGET ORGANS:** Bismuth compounds can cause kidney damage.  
However incidents of bismuth poisoning generally relate to medicinal treatment and not industrial handling.

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## 12. ECOLOGICAL INFORMATION:

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**ECOLOGICAL INFORMATION:** No specific data or information available regarding environmental impact.

**MOBILITY:** Insoluble in water. (can be separated from aqueous systems by sedimentation and/or filtration techniques. Likely to remain inert in most soil conditions (will solubilise in acidic conditions)).

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## 13. DISPOSAL CONSIDERATIONS:

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**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

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## 14. TRANSPORT INFORMATION:

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**LABEL FOR CONVEYANCE:**

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UK ROAD PACK GR.:	III
ADR CLASS No.:	5.1
ADR CLASS:	Division 5.1: Oxidizing substances.
ADR ITEM No.:	22°(c)
HAZARD No. (ADR):	50 Oxidizing (fire-intensifying) substance.
ADR MARGINAL:	2501
HAZCHEM CODE:	1Z
PROPER SHIPPING NAME I:	NITRATES, INORGANIC, NOS
PROPER SHIPPING NAME II:	TECHNICAL NAME - (contains bismuth subnitrate)
UN No. SEA:	UN 1477
IMDG CLASS:	5.1
IMDG PAGE No.:	5162
IMDG PACK GR.:	III
UN No., AIR:	UN-ID 1477
ICAO CLASS:	5.1
AIR PACK GR.:	III

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## 15. REGULATORY INFORMATION:

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### LABEL FOR SUPPLY:



RISK PHRASES:	R-38 Irritating to skin. R-8 Contact with combustible material may cause fire.
SAFETY PHRASES:	S-17 Keep away from combustible material. S-24 Avoid contact with skin.
UK REGULATORY REFERENCES:	Classification, Packaging and Labelling Regulations 1984, Chemicals (Hazard Information & Packaging) Regulations 1993.

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## 16. OTHER INFORMATION:

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<b>INFORMATION SOURCES:</b>	This product has been classified in accordance with CHIP3 regulations.
<b>REVISION COMMENTS:</b>	Edition 01; Revised item(s):
<b>ISSUED BY:</b>	MK
<b>SDS No.:</b>	065
<b>DATE:</b>	12/07/02
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