



SAFETY DATA SHEET

PENTOBARBITAL SODIUM

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

PRODUCT NAME:	PENTOBARBITAL SODIUM
PART No.:	RM190
SYNONYMS, TRADE NAMES:	Sodium 5-ethyl-5-(1-methylbutyl) barbiturate
SUPPLIER:	J M Loveridge plc Southbrook Road, Southampton Hampshire SO15 1BH Tel: 023 8022 2008 Fax: 023 8022 2117

2. COMPOSITION/INFORMATION ON INGREDIENTS:

EEC (EINECS) No.	200-323-9
CAS No.:	57-33-0
COMPOSITION COMMENTS:	Pentobarbital sodium - {5-ethyl-5- (1-methylbutyl) -2,4,6 (1H,3H,5H) pyrimidinetrione-sodium salt}

3. HAZARDS IDENTIFICATION:

Toxic if swallowed.

Pentobarbital (pentobarbitone) is a potent hypnotic and sedative (Schedule 3 Controlled Drug).

4. FIRST AID MEASURES:

GENERAL:	IN ALL CASES OF DOUBT OR WHEN SYMPTOMS PERSIST, ALWAYS SEEK MEDICAL ATTENTION
SPECIFIC FIRST AID TREATMENT:	No specific antidote. Administer symptomatic and supportive measures.
INHALATION:	Move affected person to fresh air.If recovery not rapid, seek medical attention. If breathing stops, provide artificial respiration. Keep affected person warm and at rest.
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 out. Obtain urgent medical attention. Keep patient warm and at rest.
SKIN:	Remove contaminated clothing. Wash affected area with plenty of soap and water. Obtain 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: Water spray, foam or dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: 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.

UNUSUAL FIRE & EXPLOSION HAZARDS: Finely divided material can cause dust explosion.

HAZARDOUS COMBUSTION PRODUCTS: Burning may release oxides of carbon and other hazardous gases or vapours.

PROTECTIVE MEASURES IN FIRE: Fire fighters should wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES:

PERSONAL PRECAUTION IN SPILL: Avoid formation of dust. Avoid direct contact with skin, eyes and clothing. Wear appropriate protective clothing.

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. 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. Avoid contact with skin or eyes. Avoid breathing dust.

STORAGE PRECAUTIONS: Store in a cool, dry, well ventilated place, in securely closed original container.

STORAGE CRITERIA: Toxic storage.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

INGREDIENT COMMENTS: No OES assigned, but LTEL (8-hour TWA ref. period) of 1 mg.m3 is recommended.

PROCESS CONDITIONS: Use engineering controls to reduce airborne contamination below recommended level.

RESPIRATORS: If unable to control dust emissions below recommended level, an approved respiratory protection (EN 149) must be worn at all times providing FFP3 level of protection.

PROTECTIVE GLOVES: Use impervious gloves.

EYE PROTECTION: Use approved safety goggles or face shield.

OTHER PROTECTION: Wear suitable personal protective equipment appropriate to the task.

HYGIENIC WORK PRACTICES:	SKIN PROTECTION - apply barrier cream to hands and exposed skin. Promptly remove any clothing that becomes contaminated. Apply good personal hygiene principles, such as washing of hands, arms and face. Decontaminate personal protective equipment after use, otherwise dispose of as contaminated waste. Regularly vacuum dust to minimise the potential of air-borne exposure. Use vacuum cleaner fitted with suitable filter to prevent particles blowing back to the atmosphere - (class H type).
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9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE:	White crystalline powder or granules. Hygroscopic.		
PHYSICAL DATA COMMENTS:	Combustible - minimum energy to ignite dust cloud > 556mJ.		
MELT/FREEZ. POINT (°C, interval):	mp: 136°C		
pH-VALUE, DILUTED SOLUTION:	9.0 - 10	Concentration % M:	(10% aqueous solution)
SOLUBILITY DESCRIPTION:	Very soluble in water.		
AUTO IGNITION TEMP. (°C):	> 360°C		
PARTITION COEFF. (log Pow):	< 0 (n-octanol/water)		

10. STABILITY AND REACTIVITY:

STABILITY:	Stable under normal conditions of use.
CONDITIONS TO AVOID:	Avoid dust formation. Risk of dust ignition in air.
MATERIALS TO AVOID:	Oxidising agents.
HAZARDOUS DECOMP. PRODUCTS:	Thermal decomposition or burning may release oxides of carbon and other hazardous gases or vapours. - oxides of nitrogen.

11. TOXICOLOGICAL INFORMATION:

TOXIC DOSE - LD 50:	118 mg/kg (oral rat)
TOXICOLOGICAL INFORMATION:	Pentobarbital is a potent hypnotic and sedative barbiturate (CD Sch 3). Toxic if swallowed and can be absorbed through skin. One gram (1g) dose of Pentobarbital Sodium has been reported to be fatal in humans.
HEALTH HAZARDS, GENERAL:	ENSURE MEDICAL SERVICES ARE MADE AWARE THAT THE PATIENT COULD BE SUFFERING FROM BARBITURATE POISONING AND IF POSSIBLE GIVE INDICATION OF QUANTITY INGESTED .
INGESTION:	SEEK URGENT MEDICAL ATTENTION. Keep patient warm and at rest.
SKIN:	Absorption through skin may cause drowsiness.
EYES:	On contact with eyes the material will hydrolyse causing severe conjunctival irritation or damage.
HEALTH WARNINGS:	Toxic effects will depend on the quantity of product absorbed or ingested and may include respiratory depression, cardiovascular depression with hypotension and shock leading to renal failure, coma.
OTHER HEALTH EFFECTS:	No adverse health effects have been reported from long term industrial handling of this product.

MEDICAL CONSIDERATIONS:	FIRST AID MEASURES. It is essential to maintain the airways in case of respiratory depression - DO NOT LEAVE PATIENT UNATTENDED; administer symptomatic and supportive measures.
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12. ECOLOGICAL INFORMATION:

ECOLOGICAL INFORMATION:	No specific data or information available regarding environmental impact. Avoid release to the environment. Waste from this product may present environmental hazard.
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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: H6

14. TRANSPORT INFORMATION:

UN No. ROAD:	2811
UK ROAD PACK GR.:	III
ADR CLASS No.:	6.1
ADR CLASS:	Division 6.1:Toxic substances.
ADR ITEM No.:	25°(c)
HAZARD No. (ADR):	60 Toxic or slightly toxic substance.
ADR MARGINAL:	2601
HAZCHEM CODE:	2X
PROPER SHIPPING NAME I:	TOXIC SOLID, ORGANIC, NOS
PROPER SHIPPING NAME II:	TECHNICAL NAME - (Pentobarbital sodium)
UN No. SEA:	UN 2811
IMDG CLASS:	6.1
IMDG PAGE No.:	6270-6
IMDG PACK GR.:	III
UN No., AIR:	UN-ID 2811
ICAO CLASS:	6.1
AIR PACK GR.:	III

15. REGULATORY INFORMATION:

LABEL FOR SUPPLY:



RISK PHRASES:	R-25 Toxic if swallowed.
SAFETY PHRASES:	S-22 Do not breathe dust. S-24 Avoid contact with skin. S-36/37 Wear suitable protective clothing and gloves. S-27/28A After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of soap and water. S-45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
UK REGULATORY REFERENCES:	Classification, Packaging and Labelling Regulations 1984. Chemicals (Hazard Information & Packaging) Regulations 1993.

16. OTHER INFORMATION:

USER NOTES:	THIS PRODUCT MUST ONLY BE USED BY A QUALIFIED PERSONS WHO WILL BE FULLY CONVERSANT WITH THE HAZARDS RELATING TO THE USE OF THIS MATERIAL. Further medical advice can be obtained from the POISONS INFORMATION CENTRE.
INFORMATION SOURCES:	This product has been classified in accordance with CHIP3 regulations.
REVISION COMMENTS:	Edition 01; Revised item(s):
ISSUED BY:	MK
SDS No.:	335
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.