



# SAFETY DATA SHEET

## MANNITOL

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

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**PRODUCT NAME:** MANNITOL  
**PART No.:** RM300  
**APPLICATIONS:** Widely used in Food industry. Food additive E 421.  
**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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**EEC (EINECS) No.** 200-711-8  
**CAS No.:** 69-65-8

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### 3. HAZARDS IDENTIFICATION:

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Not regarded as a health hazard under current legislation.  
Product has potential to form explosive air / dust cloud.

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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:** Remove affected person from exposure, rest and keep warm.  
**INGESTION:** Obtain medical attention if adverse symptoms occur.  
**SKIN:** Wash affected area with plenty of soap and water.  
**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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**EXTINGUISHING MEDIA:** Water spray, foam or dry chemical.

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<b>UNUSUAL FIRE &amp; EXPLOSION HAZARDS:</b>	Finely divided material can cause dust explosion.
<b>HAZARDOUS COMBUSTION PRODUCTS:</b>	Burning will produce oxides of carbon.
<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>	Avoid dry sweeping or other methods which raise dust. Vacuum or wet-sweep and place into a suitable closable, labelled container for 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>	Avoid creating or raising dust. Ensure good ventilation and local exhaust extraction in work place.
<b>STORAGE PRECAUTIONS:</b>	Store in a cool, dry, well ventilated place, in securely closed original container.

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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.m <sup>3</sup> for total inhalable dust or 4 mg.m <sup>3</sup> 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 protective gloves.
<b>EYE PROTECTION:</b>	Use eye protection if eye contact is likely.
<b>OTHER PROTECTION:</b>	Wear personal protective equipment appropriate to the quantity of material handled.
<b>HYGIENIC WORK PRACTICES:</b>	SKIN PROTECTION - 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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<b>APPEARANCE:</b>	White powder.		
<b>MELT/FREEZ. POINT (°C, interval):</b>	mp 150°C		
<b>BULK DENSITY:</b>	0.600 kg/l		
<b>pH-VALUE, DILUTED SOLUTION:</b>	5.5	<b>Concentration % M:</b>	20% (aqueous solution)

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**SOLUBILITY VALUE (g/100g H<sub>2</sub>O  
20°C):** 250g/l @ 20°C

**AUTO IGNITION TEMP. (°C):** 460

**FLAMMABILITY LIMIT -  
LOWER (%):** 30 g/m<sup>3</sup>

**FLAMMABILITY LIMIT - UPPER (%):** 60 g/m<sup>3</sup>

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## 10. STABILITY AND REACTIVITY:

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

**CONDITIONS TO AVOID:** Avoid heat, flames and other sources of ignition.  
Risk of dust ignition in air. Lower explosive limit: 30 g/m<sup>3</sup>.

**MATERIALS TO AVOID:** Oxidising agents.

**HAZARDOUS DECOMP. PRODUCTS:** Thermal decomposition or burning will release oxides of carbon.

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## 11. TOXICOLOGICAL INFORMATION:

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**INGESTION:** Intake may induce laxative effects (depending on individual sensitivity).

**SKIN:** Repeated or prolonged contact may cause mild irritation and/or drying (defatting) of skin.

**EYES:** Dust may cause mechanical irritation to eyes.

**HEALTH WARNINGS:** Inhalation of high concentration of dust may cause a mechanical overburdening of the respiratory system.

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## 12. ECOLOGICAL INFORMATION:

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**ECOLOGICAL INFORMATION:** No specific data or information available regarding environmental impact.  
Unlikely to pose ecological risk. Product has a BOD contribution.

**DEGRADABILITY:** Potentially biodegradable.

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## 13. DISPOSAL CONSIDERATIONS:

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**DISPOSAL METHODS:** Disposal should be in accordance with the principles of Duty of Care observing local and national regulations.

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## 14. TRANSPORT INFORMATION:

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**GENERAL:** Not classified as hazardous for transport.

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**15. REGULATORY INFORMATION:**

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**UK REGULATORY REFERENCES:** This product is not classed as dangerous substance under the classification, packaging and labelling of dangerous substances regulations.

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**16. OTHER INFORMATION:**

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**INFORMATION SOURCES:** This product has been classified in accordance with CHIP3 regulations.

**REVISION COMMENTS:** Edition 01; Revised item(s):

**ISSUED BY:** MK

**SDS No.:** 290

**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.