SAFETY DATA SHEET
MANNITOL

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

PRODUCT NAME: MANNITOL

PART No.: RM300

APPLICATIONS: Widely used in Food industry. Food additive E 421.

SUPPLIER: J M Loveridge plc
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2. COMPOSITION/INFORMATION ON INGREDIENTS:

EEC (EINECS) No. 200-711-8
CAS No.: 69-65-8

3. HAZARDS IDENTIFICATION:

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

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.

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.

5. FIRE FIGHTING MEASURES:

EXTINGUISHING MEDIA: Water spray, foam or dry chemical.
UNUSUAL FIRE & EXPLOSION HAZARDS:
Finely divided material can cause dust explosion.

HAZARDOUS COMBUSTION PRODUCTS:
Burning will produce oxides of carbon.

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

6. ACCIDENTAL RELEASE MEASURES:

PERSONAL PRECAUTION IN SPILL:
Avoid breathing dust.

PRECAUTIONS TO PROTECT ENVIRONMENT:
Prevent contamination of soil, drains and surface water.

SPILL CLEANUP METHODS:
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.

7. HANDLING AND STORAGE:

USAGE PRECAUTIONS:
Avoid creating or raising dust. Ensure good ventilation and local exhaust extraction in work place.

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

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:
If unable to control dust emissions below OES limits, an approved dust protection to P2 level of protection 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 powder.

MELT/FREEZE. POINT (°C, interval):
mp 150°C

BULK DENSITY:
0.600 kg/l

pH-VALUE, DILUTED SOLUTION:
5.5

Concentration % M:
20% (aqueous solution)
**SOLUBILITY VALUE** (g/100g H2O 20°C): 250g/l @ 20°C
**AUTO IGNITION TEMP. (°C):** 460
**FLAMMABILITY LIMIT - LOWER(%):** 30 g/m3
**FLAMMABILITY LIMIT - UPPER(%):** 60 g/m3

10. STABILITY AND REACTIVITY:

**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/m3.
**MATERIALS TO AVOID:** Oxidising agents.
**HAZARDOUS DECOMP. PRODUCTS:** Thermal decomposition or burning will release oxides of carbon.

11. TOXICOLOGICAL INFORMATION:

**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.

12. ECOLOGICAL INFORMATION:

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

13. DISPOSAL CONSIDERATIONS:

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

14. TRANSPORT INFORMATION:

**GENERAL:** Not classified as hazardous for transport.
15. REGULATORY INFORMATION:

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

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.: 290

DATE: 12/07/02

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