



MATERIAL SAFETY DATA SHEET

REF: 91/155 EEC AND AMENDMENTS WITH RESPECTIVE NATIONAL IMPLEMENTATIONS

ADM CORNSWEET™ CRYSTALLINE SORBITOL

1.0 SUBSTANCE IDENTIFICATION

- 1.1 Commercial product name: Crystalline Sorbitol
- 1.2 Chemical characterisation: D-Sorbitol
- 1.3 Formula: $C_6H_{14}O_6$
- 1.4 Molecular weight: 182.16
- 1.5 CAS No: 50-70-4
- 1.6 EINECS No:
- 1.7 **FOR USE IN FOOD**
- 1.8 Manufactured By: Archer Daniels Midland Company, 1251 Beaver Channel Parkway, Clinton, Iowa 52732, U.S.A.
- 1.9 Supplied in Australia by: ADM Australia Pty Ltd, PO Box 281, Suite 1003, Level 10, 1 Newland Street, Bondi Junction, NSW 2022
- 1.10 Australian Emergency Telephone Number: 0417 285396 (24 hours)
- 1.11 U.S. Emergency Telephone Number: +1 217 424-5200 (24 hours)

2.0 COMPOSITION

- 2.1 Essentially pure Sorbitol.
- 2.2 No hazardous impurities.

3.0 HAZARDS IDENTIFICATION

- 3.1 **Sorbitol is not classified as a Dangerous Substance within the definitions of EC Directive 67/584.**
- 3.2 Contact with eyes (e.g. dust particles) may cause irritation.

4.0 FIRST AID MEASURES

- 4.1 After contact with eyes, flush immediately with plenty of water for 15 minutes and seek medical advice.
- 4.2 After contact with skin, wash the affected area with water, remove contaminated clothing and launder before re-use.

5.0 FIRE FIGHTING MEASURES

- 5.1 Avoid ignition sources where a fine sorbitol dust might be generated.
- 5.2 Water, carbon dioxide, or powder extinguisher may be used.
- 5.3 Fire fighters should wear protective clothing and approved respirator.
- 5.4 Burning may produce carbon monoxide.

6.0 ACCIDENTAL RELEASE MEASURES

- 6.1 Recover product by vacuum or broom and shovel. Flush area with water to remove final traces.
- 6.2 Spillages of sorbitol solutions should be contained and collected on absorbent material. Thoroughly wash affected area.

CRYSTALLINE SORBITOL

7.0 HANDLING AND STORAGE

7.1 Store in a dry, well-ventilated area in tightly closed containers to prevent entry of moisture.

7.2 Industrial hygiene - avoid breathing dust; use in an area with adequate ventilation.
Avoid contact with skin, eyes or clothing. Wash thoroughly after handling.

8.0 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Respiratory protection: Dust mask

8.2 Hand protection: Not required

8.3 Eye protection: Not required

8.4 Other: None

9.0 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Appearance: White crystalline powder

9.2 Odour: None

9.3 pH: Neutral

9.4 Melting point: 77 - 106°C

9.5 Boiling point: N/A - solid

9.6 Specific gravity: NA

9.7 Solubility in water (20°C): 50g per 100g solution

9.8 Solubility in alcohol (20°C): Soluble

10. STABILITY AND REACTIVITY

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10. Shelf life: Sorbitol is chemically stable for many years if stored

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under cool, dry conditions; nevertheless, re-test prior to use is recommended after three years. The product is hygroscopic and must be stored in tightly closed containers to prevent the entry of moisture.

10. Hazardous decomposition

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products: None known

10. Incompatible with acids. Avoid contact with strong oxidising agents and strong

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11. TOXICOLOGICAL INFORMATION

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11. Sorbitol is a widely used sweetener in beverages and foods.

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12. ECOLOGICAL INFORMATION

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12. Sorbitol is biodegradable.

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13. DISPOSAL CONSIDERATIONS

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13. Dispose in landfill or flush to drain with large amounts of water, **depending upon local regulations**. Sorbitol is biodegradable in waste treatment facilities.

14. TRANSPORT INFORMATION

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14. No special requirements and no restrictions on transportation by land, sea or air.

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15. REGULATORY INFORMATION

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15. Sorbitol is a naturally-occurring and widely-used sugar.

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16. ADDITIONAL INFORMATION

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16. See Product Data Sheet.

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16.2 This Safety Data Sheet is based upon a limited review of ADM files and standard Toxicological handbooks.