Material Safety Data Sheet
Dextrose Anhydrous

1. Identification of the Substance or Preparation
Package labelling        Dextrose Anhydrous
EINECS No            200-075-1
CAS No                50-99-7

2. Health Hazards
Skin contact: Not normally harmful to skin, though prolonged exposure should be avoided, and good personal hygiene is essential.
Eye contact: Dust in the eyes may cause physical irritation.
Inhalation: Dust is of nuisance value only.
Ingestion: This is a foodstuff, and poses no hazard.

3. Relevant Information on Ingredients
Dextrose is a sugar crystallised from a hydrolysed starch solution. It is produced in Anhydrous (<1% moisture) and Monohydrate (approx. 9% moisture) forms.

4. First Aid Measures
Skin contact: Not applicable.
Eye Contact: Irrigate the eye to remove deposits and seek medical attention if discomfort persists.
Inhalation: Remove the person from the source of exposure.
Ingestion: Not applicable.

5. Fire Fighting Measures
Extinguishing media: Water spray is suitable.
Not to be used: Not Applicable.
Special precautions: In certain conditions Dextrose/Air mixtures are explosive. Avoid any ignition sources.
Personal Protective Equipment (P.P.E.): Wear Self Contained Breathing Apparatus in fire conditions.

6. Accidental Release Measures
Personal Protective Equipment: Wear appropriate protective clothing to protect against skin contact, eye contact, and respiratory contact.
Small spillages: Use a dry cleaning method e.g. vacuum cleaner, or alternatively brush up spillages and collect in suitable containers.
Large spillages: For large spillages a vacuum cleaning system is essential, or alternatively use a vacuum truck to collect and then dispose of material.
Dextrose deposits should not be allowed to accumulate on horizontal surfaces, as these may form an explosive mixture if they are suddenly released into the atmosphere.
Equipment used in dusty conditions should have a suitable electrical protection rating.

7. Handling and Storage
Packages: Should be stored in cool, well ventilated, dry conditions, away from strong odours and chemicals.
Bulk Storage: Bulk storage vessels are recommended to be fitted with dust control equipment and explosion protection devices.

8. Personal Protective Equipment
Skin: Not required.
Eyes: Goggles or similar eye protection will prevent contact with the eyes.
Lungs: Wear a suitable dust mask when handling the material in a powder form. (Nuisance dust only).
Ingestion: Not required.

9. Physical and Chemical Properties
Appearance: White crystalline product
Solubility: 510 g/l at 25°C.
pH: 5 (typical)
Moisture content: <1% (anhydrous), 9% (monohydrate)
Melting point: anhydrous 146°C; monohydrate 83°C
Boiling point: No data
 Bulk density: 650 g/l (typical)
Vapour pressure: Not applicable
Flash point: Not applicable

10. Stability and Reactivity
Dextrose/Air mixtures form explosive mixtures in certain conditions.
Lower explosive limit: 125 g/m³
Dextrose is a class St 1 dust at normal moisture level.
Minimum Ignition energy: >1000 mJ at normal moisture level.
P max.: 8.0 bar
Kst: 100 bar m/s
Layer ignition temperature: 450°C
In fire it may decompose to release carbon dioxide, water and carbon monoxide (incomplete combustion).

11. Toxicological Information
Dextrose is a foodstuff and poses no toxicological risk.
In a powdered form it is classed as a nuisance dust with a LTOEL of 10mg/m³ total inhalable dust.

12. Ecological Information
Dextrose does not pose an ecological risk, though it should be disposed of in a responsible manner.
No data on Aquatic or Vegetable toxicity

13. Disposal Considerations
There are no special considerations beyond those normally applied to waste disposal. (Local Authority Regulations)

14. Transport Information
There are no special requirements for transport.

15. Regulatory Information
None

16. Other Information
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