

# MATERIAL SAFETY DATA SHEET



## **TITAN BIOTECH LIMITED**

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### D-MANNITOL

#### **Section 1: Chemical Product Identification**

**Product Name:** D-MANNITOL

**Product Code:** 1245

**CAS#:** 69-65-8

**CI#:** Not available

**Synonym:** Mannite

**Chemical Name:** Not available

**Chemical Formula:** C<sub>6</sub>H<sub>14</sub>O<sub>6</sub>

#### **Section 2: Composition and Information on Ingredients**

##### **Substances**

**Synonyms:** Mannite

**Formula:** C<sub>6</sub>H<sub>14</sub>O<sub>6</sub>

**Molecular weight:** 182,17 g/mol

**CAS-No. :** 69-65-8

#### **Section 3: Hazards Identification**

##### **Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008 :not a hazards substance or mixture

**Classification according to EU Directives 67/548/EEC or 1999/45/EC**

not a hazards substance or mixture

#### **Section 4: First Aid Measures**

##### **Description of first aid measures**

General advice Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled If breathed in.** Move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact** Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact** Flush eyes with water as a precaution.

**If swallowed** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.



## MATERIAL SAFETY DATA SHEET

**Most important symptoms and effects, both acute and delay** No data available

**Indication of any immediate medical attention and special treatment needed** no data available

### Section 5: Fire and Explosion Data

#### Extinguishing media

**Suitable extinguishing media** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special hazards arising from the substance or mixture** Carbon oxides

**Advice for firefighters** Wear self contained breathing apparatus for firefighting if necessary.

### Section 6: Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures** Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

**Environmental precautions** Do not let product enter drains.

**Methods and materials for containment and cleaning up** Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers.

### Section 7: Handling and Storage

**Precautions for safe handling** Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

**Conditions for safe storage, including any incompatibilities** Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): Non Combustible Solids

**Specific end use(s)** A part from the uses no other specific uses are stipulated

### Section 8: Exposure Controls/Personal Protection

#### Exposure controls

**Appropriate engineering controls** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

**Eye/face protection** Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body Protection** Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection** For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure** Do not let product enter drains.

## MATERIAL SAFETY DATA SHEET

### Section 9: Physical and Chemical Properties

**Appearance Form:** Powder

**Odour** no data available

**Odour Threshold** no data available

**pH** no data available

**Melting point/freezing point** no data available

**Initial boiling point and boiling range** no data available.

**Flash point** no data available

**Evaporation rate** no data available

**Flammability (solid, gas)** no data available

**Upper/lower flammability or explosive limits** no data available

**Vapour pressure** no data available

**Vapour density** no data available

**Relative density** no data available

**Water solubility** no data available

**Partition coefficient:** no data available

**Auto-ignition temperature** no data available

### Section 10: Stability and Reactivity Data

**Reactivity** no data available

**Chemical stability** Stable under recommended storage conditions.

**Possibility of hazardous reactions** no data available

**Conditions to avoid** Exposure to light may affect product quality.

**Incompatible materials** Strong oxidizing agents

**Hazardous decomposition products** **Other decomposition products** - no data available

### Section 11: Toxicological Information.

**Information on toxicological effects** **Acute toxicity** LD50 Oral - Rat - 13.500 mg/kg

**Inhalation:** no data available

**Dermal:** no data available

**Skin corrosion/irritation** no data available

**Serious eye damage/eye irritation** no data available

**Respiratory or skin sensitization** no data available

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as

### Section 12: Ecological Information

**Toxicity** no data available

**Persistence and degradability** no data available

**Bioaccumulative potential** no data available

**Mobility** in soil no data available

**Results of PBT and vPvB assessment** **PBT/vPvB assessment** no data available

**Other adverse effects** no data available

