



LABORATORY CHEMICALS AND CONSUMABLES

# MATERIAL SAFETY DATA SHEET

## D (+) GLUCOSE ANHYDROUS

### 1. Chemical Product and Company information.

**Product name:** D (+) Glucose Anhydrous

**Contact Information:**

Radchem cc  
PO Box 166982  
Brackendowns  
Alberton 1454  
Telephone : **011 867 3726 / 2864**

### 2. Hazard Identification

As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.

### 3. Composition / information on ingredients

**CAS #:** 50-99-7

**Synonym:** Dextrose anhydrous, anhydrous; dextrosol; dextrose U.S.P. anhydrous; corn sugar; grape sugar

**Chemical Name:** D (+) Glucose Anhydrous

**Chemical Formula:** C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>

### 4. First Aid Measures

**Eye Contact:** Wash thoroughly with running water. Get medical advice if irritation develops.

**Skin Contact:** Not expected to require first aid measures.

**Serious Skin Contact:** Not available

**Inhalation:** Not expected to require first aid measures.

**Serious Inhalation:** Not available

**Ingestion:** Not expected to require first aid measures.

**Serious Ingestion:** Not available.



## **5. Fire-fighting measures**

**Flammability of the Product:** Non - Flammable

**Fire Hazards in Presence of Various Substances:** Not considered to be a fire hazard.

**Explosion Hazards in Presence of Various Substances:** This material in sufficient quantity and reduced particle size is capable of creating a dust explosion

**Fire Fighting Media and Instructions:** Use any means suitable for extinguishing surrounding fire.

**Special Remarks on Fire Hazards:** Not available

**Special Remarks on Explosion Hazards:** Not available

## **6. Accidental release measures**

**Small Spill:** Remove all sources of ignition. Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. **Spills:** Clean up spills in a manner that does not disperse dust into the air. Use non-sparking tools and equipment. Reduce airborne dust and prevent scattering by moistening with water. Pick up spill for recovery or disposal and place in a closed container. Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. **Spills:** Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

**Large Spill:**

## **7. Handling and storage**

**Precautions:** Protect against physical damage. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

**Storage:** Keep in a tightly closed container, stored in a cool, dry, ventilated area.

## **8. Exposure controls/personal protection**

**Engineering Controls:** For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres. In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered.

**Personal Protection:** Wear protective gloves and clean body-covering clothing. Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

**Personal Protection in Case of a Large Spill:** Not available

## **9. Physical and chemical properties**

**Physical state and appearance:** Colourless crystals or white crystalline powder

**Odour:** Odourless

**Taste:** Not available

**Colour:** Colourless or white

**Odour Threshold:** Not available

**Ionicity (in Water):** Not available.

**Dispersion Properties:** Not available

**Solubility:** 1 g/1.1 ml water @ 25C



**Boiling Point:** Not available

**Melting Point:** 146C

**Critical Temperature:** Not available

**Specific Gravity:** Not available

**Vapour Density:** Not available

**Volatility:** Not available

### **10. Stability and reactivity**

**Stability:** Stable under ordinary conditions of use and storage.

**Instability Temperature:** Not available.

**Conditions of Instability:** Moisture and incompatibles

**Incompatibility with various substances:** Reacts with sodium nitrite plus potassium nitrite, sodium peroxide plus potassium nitrate.

**Corrosivity:** Not available

**Special Remarks on Reactivity:** Not available

**Special Remarks on Corrosivity:** Not available

**Polymerization:** Will not occur.

### **11. Toxicological information**

**Routes of Entry:** Not available

**Toxicity to Animals:** Not available

**Chronic Effects on Humans:** Investigated as a tumorigen, mutagen, reproductive effectors

**Other Toxic Effects on Humans:** Not available

**Special Remarks on Toxicity to Animals:** Not available

**Special Remarks on Chronic Effects on Humans:** Not available

**Special Remarks on other Toxic Effects on Humans:** Not available

### **12. Ecological information**

**Ecotoxicity:** Not available

**BOD5 and COD:** Not available

**Products of Biodegradation:** Not available

**Toxicity of the Products of Biodegradation:** Not available

**Special Remarks on the Products of Biodegradation:** Not available

### **13. Disposal considerations**

**Waste Disposal:** Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

### **14. Transport information**

**DOT Classification:** Not available

**Identification:** : Not available

**Special Provisions for Transport:** Not available

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