



Section 1. Product and Company Identification

**Product Name** Dextrose Monohydrate  
**CAS Number** 14431-43-7

**Parchem - fine & specialty chemicals**

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**EMERGENCY RESPONSE NUMBER**  
**CHEMTEL**

Toll Free US & Canada: 1 (800) 255-3924

All other Origins: 1 (813) 248-0585

Collect Calls Accepted

Section 2. Hazards Identification

**Classification of the substance or mixture**

Not a hazardous substance or mixture.

**WARNING:** May cause combustible dust concentrations in the air. Treat as a nuisance dust. Material may be combustible at high temperature, but will not readily ignite.

Section 3. Composition / Information on Ingredients

**Common Name** Dextrose Monohydrate  
**CAS Number** 14431-43-7

Section 4. First Aid Measures

**General:** When symptoms persist or if in doubt, seek immediate professional medical advice. Chronic exposure may lead to dermatitis or respiratory sensitization.

**Following Inhalation:** May irritate respiratory system. Persons with respiratory problems should avoid breathing dust. Use NIOSH approved respiratory mask for nuisance dust. For overexposure- remove to fresh air

**Skin contact:** For broken or sensitive skin wear protective gloves. Wash dust from skin with soap and water.

**Eye Contact:** May irritate eyes. Wear protective glasses or goggles. Carefully and thoroughly flush from eyes with eye bath or water.

**Ingestion:** First aid measures normally not required for incidental ingestion. Ingestion of larger amounts or material may result in vomiting or diarrhea. Treat symptomatically. Do not induce vomiting.

**Self-protection for first responders:** None

Section 5. Firefighting Measures

**Suitable Extinguishing Techniques:** Apply water, foam, CO2, Dry chemical powder. Do not use water jet.



**Special Firefighting Procedures:** Wear self-contained breathing apparatus  
**Chemical Hazards from Fire:** Thermal decomposition may produce CO and CO<sub>2</sub>. Hazardous polymerization will not occur.

Section 6. Accidental Release Measures

**Emergency Procedures:** None  
**Protective Equipment:** Skin, eye, ingestions controls (Section 4)  
**Method of Clean-Up:** Collect mechanically avoiding excessive dust generation. Sweeping should be avoided to prevent the formation of dust clouds and static electricity discharge (ignition source).  
**Disposal:** Dispose of in solid waste landfill in accordance with all applicable federal, state and local regulations. Remove small residual amounts by flushing with water to the sanitary water system

Section 7. Handling and Storage

**Handling:** Material may be combustible. In case of open handling, use devices with built-in aspiration where possible. Do not use near ignition sources.  
**Measures to Prevent Dust Accumulation:** Explosive dust/air mixtures may form. Provide sufficient ventilation. Provide local aspiration where dust is likely to occur. Accumulated dust should be immediately vacuumed.  
**Storage:** Material may be combustible. Do not store near heat or flame. Store in original packaging. Keep dry. Material is stable for three years when stored under these conditions.

Section 8. Exposure Controls / Personal Protection

**Engineering Controls Respiratory Protection:** Adequate ventilation and local aspiration  
NIOSH approved respiratory mask for nuisance dust  
**Eye Protection:** Protective glasses or goggles  
**Hand/Skin Protection:** No special hand protection required. Barrier gloves or protective clothing should be used to minimize contact with sensitive skin.

Section 9. Physical and Chemical Properties

**Physical State:** Solid- Powder  
**Color:** White to tan  
**Odor:** Neutral  
**Critical temperature:** Not available  
**pH:** Neutral to slightly acidic (5.0 - 7.5)  
**Melting point/melting range:** 86°C (186.8°F)  
**Boiling point/boiling range:** Decomposes  
**Flash Point:** Undetermined  
**Flammability:** Combustible but will not readily ignite  
**Explosion Hazard:** Explosive dust/air mixtures can form  
**Oxidizing Characteristics:** Non-oxidizing



**Vapor Pressure:** Does Not Apply  
**Vapor Density:** Does Not Apply  
**Specific gravity:** 1.54 (Water=1)  
**Solubility:** Easily soluble in cold water

Section 10. Stability and Reactivity

**Conditions to Avoid:** Exposure to temperatures near or above 200°C. Exposure to open flames  
**Materials to Avoid:** None  
**Hazardous Decomposition Products:** Thermal decomposition may produce CO and CO<sub>2</sub>

Section 11. Toxicological Information

**Acute Toxicity:** No acute toxicity  
**Chronic Effects on Humans:** Passes through the placental barrier  
**Specific Symptoms in Lab Animals:** Acute oral toxicity (LD50): 25,800 mg/kg (Rat)

**Routes of Exposure/Symptoms**

**Skin:** may irritate sensitive skin

**Eyes:** may irritate eyes

**Respiratory:** may irritate respiratory system

**Cancer, Mutagenicity, Reproductive Toxicity:** Not listed as a carcinogen. No current National Toxicology Program, IARC or OSHA involvement currently recorded. Not listed on the State of California Proposition 65 list of chemicals known to the State to cause cancer or reproductive toxicity.

Section 12. Ecological Information

**Physical/Chemical Elimination Biodegradation:** Material is soluble in cold water. Short term degradation products are not likely. Long term degradation products may arise.

**PBT, vPvBT Assessment:** Material does not meet the criteria for classification as Persistent Bioaccumulative Toxic Chemical (PBT) or very Persistent very Bioaccumulative Toxic Chemical (vPvBT) under REACH regulations.

**Harmful Effects:** No known harmful effects. Negative ecological effects are not expected.

Section 13. Disposal Considerations

**Waste Treatment Methods:** Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

**All Transports:** No limitations, special markings not required



Section 15. Regulatory Information

**Section 15- Regulatory (USA)**

**Toxic Substances Control Act (TSCA) State of California Proposition 65:** TSCA 8(b) inventory: Dextrose monohydrate Not on the list of chemicals known to the State to cause cancer or reproductive toxicity.

**WHMIS (Canada):** Not controlled under WHMIS (Canada)

**DSCL (EEC):** Not classified according to EU regulations

Section 16. Other Information

**Disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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