



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No. DD 18
Effective Date February 20, 1999

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	DEXTRIN, POWDER (CORN)			
Chemical Synonyms	Corn Dextrin			
Formula	$(C_6H_{10}O_5)_n$			
Unit Size	up to 2.5 Kg.			
C.A.S. No.	9004-53-9			
	CHEMTREC	Health	0	
	800-424-9300	Fire	1	
	Day 716-226-6177	Reactivity	0	
	NFPA HAZARD RATING	HMIS *		
LEAST 0	SLIGHT 1	MODERATE 2	HIGH 3	EXTREME 4

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Dextrin	100%	None established.

CAUTION! DEXTRIN POWDER DISPERSED IN AIR MAY

CONSTITUTE AN EXPLOSION HAZARD. HYGROSCOPIC.

SECTION III PHYSICAL DATA

Melting Point (°F)	Decomposes.	Specific Gravity (H ₂ O = 1)	1.53 @ 20°C
Boiling Point (°F)	Decomposes.	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	N/A	Evaporation Rate (=1)	N/A
Vapor Density (Air=1)	N/A		
Solubility in Water	59 to 71 grams per 100 mL. water at 212°C.		
Appearance & Odor	White to yellow powder; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable.	Flammable Limits in Air % by Volume	Lower 0.04 oz/cu. ft.	Upper 0.055 oz/cu. ft.
Extinguisher Media	Water spray; carbon dioxide; dry chemical.			

SPECIAL FIREFIGHTING PROCEDURES

Combustible dust. Avoid procedures which would cause a dust cloud of the material to be formed. In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing to prevent eye and skin contact.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Minimum ignition energy-0.03-0.06 joule. Ignition temperature 380°-420°C (716°-788°F). If dextrin is allowed to become air-borne as dust, explosive conditions may prevail. Avoid conditions which produce dust. Can react vigorously with oxidizing materials.

D.O.T. **NON-REGULATED.**

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

SECTION V HEALTH HAZARD DATA

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Threshold Limited Value None established. Nuisance Particulates-10 mg/m³ (ACGIH, 1992-93).

Effects of Overexposure Minimal - Dust may be irritating to nose and eyes. **SKIN:** Low hazard for usual laboratory handling. **INGESTION:** Expected to be a low ingestion hazard. Exercise appropriate procedures to minimize potential hazards.

Emergency and First Aid Procedures
EYES: Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. If irritation develops or persists, get medical attention. **SKIN:** Wash thoroughly with soap and water. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. **INGESTION:** If conscious, give water to drink and call physician. Never give anything by mouth to an unconscious person.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Practices which produce dust.
	Stable	X		

Incompatibility (Materials to Avoid) Strong oxidizers.

Hazardous Decomposition Products Combustion will produce carbon dioxide, smoke and probably emits carbon monoxide.

Hazardous Polymerization **Conditions to Avoid**

May Occur	Will Not Occur	Not applicable.
	X	

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled Recover for use if not contaminated. Vacuum or sweep up and place in a suitable container for disposal. Avoid causing dusty conditions. Flush spill area with soap and water.

Waste Disposal Method Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.

Dispose of in an approved incinerator or if uncontaminated material may be disposed of in a sanitary landfill.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) None needed in normal laboratory handling. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved dust mask or respirator.

Ventilation	Local Exhaust	Yes.	Special	No.
	Mechanical (General)	Explosion proof.	Other	No.

Protective Gloves None needed. **Eye Protection** Chemical safety glasses.

Other Protective Equipment Safety glasses, lab coat, eye wash station, ventilation hood.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Store in a cool, dry place away from oxidizing agents. Wash thoroughly after handling. Keep container tightly closed when not in use.

Other Precautions Read label on container before using. Do not wear contact lenses when working with chemicals.

Remove and wash contaminated clothing.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision No. 5	Date 2/20/99	Approved Michael Raszeja	Chemical Safety Coordinator MR
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