

MATERIAL SAFETY DATA SHEET

DEXTRIN POWDER, CORN
CAROLINA BIOLOGICAL

Revised: 12/09/07
Replaces: 10/07/07
Printed: 20/05/08

1. PRODUCT DESCRIPTION

Product Name: Dextrin, Powder
Product Code(s): 85-7400
Size: 500 g
Chemical Name: Corn
CAS Number: 9004-53-9
Formula: $(C_6H_{10}O_5)_n$
Synonyms: Corn Dextrin
Distributor: Carolina Biological Supply Company
2700 York Road
Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec (Transportation Spill Response 24 hours): 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Principle Hazardous Components: Dextrin, Powder (CAS#9004-53-9) 100%
TLV and PEL units: ACGIH-TLV: Nuisance Particulates-10 mg/m3
OSHA-PEL: None-established

3. HAZARD IDENTIFICATION

Emergency Overview: CAUTION! Dextrin powder dispersed in air may constitute an explosion hazard. Hygroscopic.
Potential Health Effects:
Eyes: May cause irritation.
Skin: May cause irritation.
Ingestion: May cause gastrointestinal discomfort.
Inhalation: May cause irritation to respiratory tract.

4. FIRST AID MEASURES

Emergency and First Aid Procedures:
Eyes - Flush with water for at least 15 minutes, raising and lowering eyelids occasionally. Get medical attention if irritation persists.
Skin - Thoroughly wash exposed area for at least 15 minutes. Remove contaminated clothing. Launder contaminated clothing before reuse. Get medical attention if irritation persists.
Ingestion - If swallowed, if conscious, give plenty of water. Immediately call a physician or poison control center. Never give anything by mouth to an unconscious person.
Inhalation - Remove to fresh air. Give oxygen if breathing is difficult; give artificial respiration if breathing has stopped. Keep person warm and quiet, and get medical attention.

5. FIREFIGHTING PROCEDURES

Flash Point (Method Used): Non Flammable
NFPA Rating: Health: 0
Fire: 1
Reactivity: 0

Extinguisher Media:

Flammable Limits in Air % by Volume: lower 0.04 oz/cu ft/upper 0.055 oz/cu.

feet.

Autoignition Temperature:

Special Firefighting Procedures:

Firefighters should wear full protective equipment and NIOSH approved

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self-contained breathing apparatus.
Unusual Fire and Explosion Hazards: Minimum ignition energy-0.03-0.06 joule.
Ignition temperature 380-420C (716-788F). 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.

6. SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:
Ventilate area of spill. Eliminate all sources of ignition.
Remove all non-essential personnel from area. Clean-up personnel should wear proper protective equipment and clothing. Absorb material with suitable absorbent and containerize for disposal.

7. SPECIAL PRECAUTIONS

Precautions to be Taken in Handling or Storing: Store in a cool dry place away from oxidizing agents. Wash thoroughly after handling.
Other Precautions: Read label on container before using. Do not wear contact lenses when working with chemicals. Remove and wash contaminated clothing.

8. SPECIAL PROTECTION INFORMATION

Respiratory Protection(Specify Type):
None needed under normal conditions of use with adequate ventilation.
NIOSH approved equipment should be worn if PELs are exceeded.
Ventilation:

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

Protective Gloves:

Rubber, neoprene, PVC, or equivalent.

Eye Protection:

Splash proof chemical safety goggles should be worn at all times.

Other Protective Clothing or Equipment:

Lab apron, eye wash, and safety shower.

9. PHYSICAL DATA

Molecular Weight: No information available
Melting Point: Decomposes.
Boiling Point: Decomposes.
Vapor Pressure: Negligible as solid
Specific Gravity(H₂O=1): 1.53 @ 20 C
Percent Volatile by Volume: Non-volatile (NA)
Evaporation Rate(H₂O=1): Non-volatile (NA)
Solubility in Water: 59 to 71 grams per 100 mL. water at 212C.
Appearance and Odor: white to yellow powder; no odor.

10. REACTIVITY DATA

Stability: Stable
Conditions to Avoid: Practices which produce dust.
Incompatibility(Materials to Avoid): Strong oxidizers.

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Hazardous Decomposition Products: Combustion will produce carbon dioxide,
smoke and probably emits carbon monoxide.
Hazardous Polymerization: Will not occur

11. TOXICITY DATA

Toxicity Data: No information available

Effects of Overexposure:

Acute: See section 3

Chronic:

Conditions Aggravated by Overexposure: No information available

Target Organs: No information available

Primary Route(s) of Entry: No information available

12. ECOLOGICAL DATA

EPA Waste Numbers: None

13. DISPOSAL INFORMATION

Waste Disposal Methods: Dispose in accordance with all applicable Federal,
State and Local regulations.

Always contact a permitted waste disposer (TSD) to assure compliance.

14. TRANSPORT INFORMATION

non-regulated

15. REGULATORY INFORMATION

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute

	SARA EHS Sec. 302	SARA Sec. 313 Chemicals Name Chemical List Category	CERCLA Sec. 103 RQ lbs.	RCRA Sec.
Product or Components 261.33	TPQ			

Dextrin	No	No	No	No	No
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16. ADDITIONAL INFORMATION

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary

ACGIH.....American Conference of Governmental Industrial Hygienists

CAS Number..Chemical Abstracts Service Number

CERCLA.....Comprehensive Environmental Response, Compensation, and Liability Act

DOT.....U.S. Department of Transportation

IARC.....International Agency of Research on Cancer

mppcf.....million particles per cubic foot

N/A.....Not Available

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NTP.....National Toxicology Program
OSHA.....Occupational Safety and Health Administration
PEL.....Permissible Exposure Limit
ppm.....parts per million
RCRA.....Resource Conservation and Recovery Act
SARA.....Superfund Amendments and Reauthorization Act
TLV.....Threshold Limit Value
TSCA.....Toxic Substances Control Act