

MATERIAL SAFETY DATA SHEET

S
CAROLINA BIOLOGICAL

Revised: 09/05/00
Replaces: None
Printed: 31/12/01

1. PRODUCT DESCRIPTION

Product Name: Starch
Product Code(s): 89-2530, 89-2532, 89-2534, 89-2550, 89-2560, 95-7860
89-2501, 89-2503, 97-2114, 97-2901, 97-2928, 97-2101,
20-2335, 20-2275, 84-0465, 85-0930, 85-0934
Size: Various
Chemical Name: Carbohydrate(Starch)
CAS Number: Mixture
Formula: See section 2
Synonyms: Soluble Starch
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: Starch (CAS# 9005-25-8) 100%
TLV and PEL units:
ACGIH-TLV: 10 mg/m³
OSHA-PEL: 15 mg/m³

3. HAZARD IDENTIFICATION

Emergency Overview: Do not inhale, ingest or allow material to contact skin or eyes.

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, quiet, and get medical attention.

5. FIREFIGHTING PROCEDURES

Flash Point(Method Used): N/A

NFPA Rating: Health: 0
Fire: 1
Reactivity: 0

Extinguisher Media:

Use media suitable to extinguish surrounding fire.

Flammable Limits in Air % by Volume: N/A

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Autoignition Temperature: N/A
Special Firefighting Procedures:
Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Unusual Fire and Explosion Hazards: May be subject to dust explosion if moisture is removed below 7%. Thermal decomposition produces acrid fumes.

6. SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:
Ventilate area of spill. Clean-up personnel should wear proper protective equipment. Avoid creating dust. Sweep or scoop up and containerize for disposal.

7. SPECIAL PRECAUTIONS

Precautions to be Taken in Handling or Storing: Store in clean, dry, well ventilated warehouse. Eliminate sources of spark or ignition.
Other Precautions: Do not inhale, ingest or allow material to contact skin or eyes.

8. SPECIAL PROTECTION INFORMATION

Respiratory Protection(Specify Type): NIOSH-approved dust mask
Ventilation:

Local Exhaust:	Yes
Mechanical(General):	Yes
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 coat, eye wash, and safety shower.

9. PHYSICAL DATA

Molecular Weight:	N/A
Melting Point:	Decomposes
Boiling Point:	N/A
Vapor Pressure:	N/A
Vapor Density(Air=1):	N/A
Specific Gravity(H2O=1):	N/A
Percent Volatile by Volume:	N/A
Evaporation Rate(H2O=1):	N/A
Solubility in Water:	Soluble
Appearance and Odor:	White odorless powder or granules

10. REACTIVITY DATA

Stability: Stable
Conditions to Avoid: Dusting
Incompatibility(Materials to Avoid): Oxidizers
Hazardous Decomposition Products: COx
Hazardous Polymerization: Will not occur

11. TOXICITY DATA

Toxicity Data: ipr-mus LD50: 6600 mg/kg

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Effects of Overexposure: May cause irritation and slight corneal injury to eyes, and allergic reaction to skin. Excessive dust may cause irritation if inhaled or ingested.

Acute: See section 3

Chronic: Not listed as causing cancer by NTP, IARC or OSHA.

Conditions Aggravated by Overexposure:

Target Organs: Eyes, skin, respiratory system, gastrointestinal tract.

Primary Route(s) of Entry: Inhalation, ingestion, eyes, skin.

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

N/A

15. REGULATORY INFORMATION

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting:

	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			

Starch	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 Services Abstract Number

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

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

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

N/A.....Not Available

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

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TLV.....Threshold Limit Value
TSCA.....Toxic Substances Control Act