

# Safety Data Sheet

Starch, 1%

**CAROLINA**<sup>®</sup>  
www.carolina.com

## Section 1 Product Description

**Product Name:** Starch, 1%  
**Recommended Use:** Science education applications  
**Synonyms:** Starch solution  
**Distributor:** Carolina Biological Supply Company  
2700 York Road, Burlington, NC 27215  
1-800-227-1150  
**Chemical Information:** 800-227-1150 (8am-5pm (ET) M-F)  
**Chemtrec:** 800-424-9300 (Transportation Spill Response 24 hours)

## Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

**WARNING**



Not a dangerous substance according to GHS classification criteria. No known OSHA hazards.

**GHS Classification:**  
Serious Eye Damage/Eye Irritation Category 2A

|                                                     |                                                                   |
|-----------------------------------------------------|-------------------------------------------------------------------|
| <b>Acute Toxicity Dermal Contains</b>               | 50 % of the mixture consists of ingredient(s) of unknown toxicity |
| <b>Acute Toxicity Inhalation Vapor Contains</b>     | 50 % of the mixture consists of ingredient(s) of unknown toxicity |
| <b>Acute Toxicity Inhalation Dust/Mist Contains</b> | 50 % of the mixture consists of ingredient(s) of unknown toxicity |

## Section 3 Composition / Information on Ingredients

| <u>Chemical Name</u> | <u>CAS #</u> | <u>%</u> |
|----------------------|--------------|----------|
| Starch               | 9005-25-8    | 50       |
| Sodium Benzoate      | 532-32-1     | 50       |

## Section 4 First Aid Measures

### Emergency and First Aid Procedures

**Inhalation:** In case of accident by inhalation: remove casualty to fresh air and keep at rest.  
**Eyes:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.  
**Skin Contact:** After contact with skin, wash immediately with plenty of water.  
**Ingestion:** If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

## Section 5 Firefighting Procedures

**Extinguishing Media:** Use media suitable to extinguish surrounding fire.  
**Fire Fighting Methods and Protection:** Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.  
**Fire and/or Explosion Hazards:** None Known  
**Hazardous Combustion Products:** Carbon dioxide, Carbon monoxide

# Safety Data Sheet

## Section 6

## Spill or Leak Procedures

### Steps to Take in Case Material Is Released or Spilled:

No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS. No special spill clean-up considerations. Collect and discard in regular trash.

## Section 7

## Handling and Storage

**Handling:** Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Do not ingest or take internally.

**Storage:** Keep container tightly closed in a cool, well-ventilated place.

**Storage Code:** Green - general chemical storage

## Section 8

## Protection Information

| Chemical Name   | ACGIH        |        | OSHA PEL                                                     |        |
|-----------------|--------------|--------|--------------------------------------------------------------|--------|
|                 | (TWA)        | (STEL) | (TWA)                                                        | (STEL) |
| Starch          | 10 mg/m3 TWA | N/A    | 15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction) | N/A    |
| Sodium Benzoate | N/A          | N/A    | N/A                                                          | N/A    |

### Control Parameters

#### Engineering Measures:

Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.

#### Personal Protective Equipment (PPE):

Lab coat, apron, eye wash, safety shower.

#### Respiratory Protection:

No respiratory protection required under normal conditions of use.

#### Respirator Type(s):

None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.

#### Eye Protection:

Wear chemical splash goggles when handling this product. Have an eye wash station available.

#### Skin Protection:

Not normally considered a skin hazard. Where use can result in skin contact, practice good personal hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

#### Gloves:

Butyl rubber, Neoprene, Nitrile, Polyvinyl chloride

## Section 9

## Physical Data

**Formula:** see section 3

**Molecular Weight:** No data available

**Appearance:** Cloudy (milky) Liquid

**Odor:** None

**Odor Threshold:** No data available

**pH:** No data available

**Melting Point:** Estimated 0 C

**Boiling Point:** Estimated 100 C

**Flash Point:** > 100 C

**Flammable Limits in Air:** No data available N/A

**Vapor Pressure:** No data available

**Evaporation Rate (BuAc=1):** No data available

**Vapor Density (Air=1):** No data available

**Specific Gravity:** 1

**Solubility in Water:** Soluble

**Log Pow (calculated):** No data available

**Autoignition Temperature:** No data available

**Decomposition Temperature:** No data available

**Viscosity:** No data available

**Percent Volatile by Volume:** No data available

## Section 10

## Reactivity Data

#### Reactivity:

Not generally reactive under normal conditions.

#### Chemical Stability:

Stable under normal conditions.

#### Conditions to Avoid:

None known.

#### Incompatible Materials:

Strong oxidizing agents

#### Hazardous Polymerization:

Will not occur

## Section 11

## Toxicity Data

#### Routes of Entry

Ingestion.

#### Symptoms (Acute):

No data available

#### Delayed Effects:

No data available

# Safety Data Sheet

## Acute Toxicity:

### Chemical Name

Starch  
Sodium Benzoate

### CAS Number

9005-25-8  
532-32-1

### Oral LD50

Oral LD50 Rat  
2100 mg/kg

### Dermal LD50

### Inhalation LC50

## Carcinogenicity:

### Chemical Name

Starch  
Sodium Benzoate

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532-32-1

### IARC

Not listed  
Not listed

### NTP

Not listed  
Not listed

### OSHA

Not listed  
Not listed

## Chronic Effects:

### Mutagenicity:

No evidence of a mutagenic effect.

### Teratogenicity:

No evidence of a teratogenic effect (birth defect).

### Sensitization:

No evidence of a sensitization effect.

### Reproductive:

No evidence of negative reproductive effects.

### Target Organ Effects:

#### Acute:

No information available

#### Chronic:

No information available

## Section 12

## Ecological Data

### Overview:

This material is not expected to be harmful to the ecology.

### Mobility:

No data

### Persistence:

No data

### Bioaccumulation:

No data

### Degradability:

No data

### Other Adverse Effects:

No data

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### Eco Toxicity

Not available  
Aquatic LC50 (96h) Fathead Minnow > 100 MG/L  
Aquatic EC50 (48h) Daphnia < 650 MG/L

## Section 13

## Disposal Information

### Disposal Methods:

Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

### Waste Disposal Code(s):

Not Determined

## Section 14

## Transport Information

### Ground - DOT Proper Shipping Name:

Not regulated for transport by US DOT.

### Air - IATA Proper Shipping Name:

Not regulated for air transport by IATA.

## Section 15

## Regulatory Information

### TSCA Status:

All components in this product are on the TSCA Inventory.

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### § 313 Name

No  
No

### § 304 RQ

No  
No

### CERCLA RQ

No  
No

### § 302 TPQ

No  
No

### CAA 112(2) TQ

No  
No

## Section 16

## Additional Information

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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.

# Safety Data Sheet

## Glossary

|        |                                                                       |      |                                               |
|--------|-----------------------------------------------------------------------|------|-----------------------------------------------|
| ACGIH  | American Conference of Governmental Industrial Hygienists             | NTP  | National Toxicology Program                   |
| CAS    | Chemical Abstract Service Number                                      | OSHA | Occupational Safety and Health Administration |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act | PEL  | Permissible Exposure Limit                    |
| DOT    | U.S. Department of Transportation                                     | ppm  | Parts per million                             |
| IARC   | International Agency for Research on Cancer                           | RCRA | Resource Conservation and Recovery Act        |
| N/A    | Not Available                                                         | SARA | Superfund Amendments and Reauthorization Act  |
|        |                                                                       | TLV  | Threshold Limit Value                         |
|        |                                                                       | TSCA | Toxic Substances Control Act                  |
|        |                                                                       | IDLH | Immediately dangerous to life and health      |