## **Basic C-FERN® Medium, Prepared**



#### Section 1

### **Product Description**

**Product Name:** Basic C-FERN® Medium, Prepared **Recommended Use:** Science education applications

Synonyms:

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;

#### **GHS Classification:**

**Other Safety Precautions:** May cause eye irritation.

> May cause gastrointestinal discomfort. May cause irritation to respiratory tract.

May cause irritation to skin.

**Acute Toxicity Oral Contains Acute Toxicity Dermal Contains Acute Toxicity Inhalation Gas** 

**Contains** 

**Acute Toxicity Inhalation Vapor** 

Contains

**Acute Toxicity Inhalation Dust/Mist** 

**Contains** 

100 % of the mixture consists of ingredient(s) of unknown toxicity 100 % of the mixture consists of ingredient(s) of unknown toxicity 100 % of the mixture consists of ingredient(s) of unknown toxicity

100 % of the mixture consists of ingredient(s) of unknown toxicity

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### Section 3

### Composition / Information on Ingredients

Chemical Name CAS# % 100 Ammonium Nitrate 6484-52-2 10043-52-4 Calcium chloride 10034-99-8 Magnesium sulfate heptahydrate Potassium phosphate, monobasic 7778-77-0

#### 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.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Eyes:

After contact with skin, wash immediately with plenty of water. Skin Contact:

Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

#### Section 5

### Firefighting Procedures

Extinguishing Media: Use dry chemical, CO2 or appropriate foam.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards:

**Hazardous Combustion Products:** Carbon dioxide, Carbon monoxide, Calcium Oxides, Sulfur Oxides

#### Section 6

### Spill or Leak Procedures

Steps to Take in Case Material Is

Released or Spilled:

No adverse health affects expected from the clean-up of spilled material. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS. Ventilate the contaminated area. Isolate area, Keep unnecessary personnel away, Avoid the generation of

dusts during clean-up.

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

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### **Section 7**

### Handling and Storage

Handling:

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

Storage Code: Green - general chemical storage

### Section 8

#### **Protection Information**

**ACGIH OSHA PEL** 

**Chemical Name** (TWA) (STEL) (TWA) (STEL) No data available N/A N/A N/A N/A

**Control Parameters** 

**Engineering Measures:** No exposure limits exist for the constituents of this product. General room ventilation

might be required to maintain operator comfort under normal conditions of use.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

**Respiratory Protection:** No respiratory protection required under normal conditions of use.

**Eye Protection:** Wear chemical splash goggles when handling this product. Have an eye wash station

available.

**Skin Protection:** Avoid skin contact by wearing chemically resistant gloves, an apron and other protective

equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

Gloves: Natural latex,, Natural rubber, Neoprene, Nitrile, Polyvinyl chloride

### Section 9

### Physical Data

Formula: See Section 3 Vapor Pressure: N/A

Molecular Weight: N/A; Product is a mixture Evaporation Rate (BuAc=1): N/A Appearance: Liquid Vapor Density (Air=1): N/A

Odor: No data available Specific Gravity: N/A Odor Threshold: No data available Solubility in Water: Soluble

pH: No data available Log Pow (calculated): No data available Melting Point: No data available Autoignition Temperature: No data available

Boiling Point: No data available **Decomposition Temperature:** No data available Flash Point: No data available Viscosity: No data available Flammable Limits in Air: N/A N/A Percent Volatile by Volume: N/A

#### Section 10

### Reactivity Data

Reactivity: No data available

Chemical Stability: Stable under normal conditions.

**Conditions to Avoid:** None known.

**Incompatible Materials:** Acids, Strong oxidizing agents, Strong reducing agents

**Hazardous Decomposition Products:** Sulfur Oxides, Calcium Oxides, Carbon dioxide, Carbon monoxide

**Hazardous Polymerization:** Will not occur

#### Section 11

### Toxicity Data

Routes of Entry Inhalation and ingestion.

Symptoms (Acute):

**Delayed Effects:** No data available

**Acute Toxicity:** 

Chemical Name

CAS Number
Oral LD50
Dermal LD50
Inhalation LC50
Oral LD50 Rat =
Dermal LD50 Not determined

Oral LD50 Rat =
Dermal LD50 Not determined

Calcium chloride 10043-52-4 2217 mg/kg determined

Magnesium sulfate heptahydrate 10034-99-8 Oral LD50 Rat = Dermal LD50 >

Potassium phosphate, monobasic 7778-77-0 2301 mg/kg 4640 mg/kg

Oral LD50 Not available

Carcinogenicity:

Chemical NameCAS NumberIARCNTPOSHAAmmonium nitrate6484-52-2Not listedNot listedNot listed

Calcium chloride 10043-52-4 Magnesium sulfate heptahydrate 10034-99-8 Potassium phosphate, monobasic 7778-77-0

**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: See Section 2

**Chronic:** Not listed as a carcinogen by IARC, NTP or OSHA.

## Section 12 Ecological Data

**Overview:** This material is not expected to be harmful to the ecology.

Mobility:No dataPersistence:No dataBioaccumulation:No dataDegradability:No dataOther Adverse Effects:No data

Chemical Name CAS Number Eco Toxicity

N/A 6484-52-2

10043-52-4 10034-99-8 7778-77-0

## 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: Air - IATA Proper Shipping Name: N/A Not regulated for air transport by IATA.

## Section 15 Regulatory Information

**TSCA Status:** All components in this product are on the TSCA Inventory.

Chemical Name CAS § 313 Name § 304 RQ CERCLA RQ § 302 TPQ CAA 112(2)

Number TQ

Ammonium nitrate 6484-52-2 No No No No No No

10043-52-4 10034-99-8 7778-77-0

# Section 16 Additional Information

Revised: 09/09/2015 Replaces: 07/31/2015 Printed: 10-29-2015

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.

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