

Material Safety Data Sheet



Chlorophyll Extract Solution

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Carolina Biological Supply Company

2700 York Rd | Burlington, NC 27215 • to order: 800.334.5551 • for support: 800.227.1150

CAROLINA

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Section 1 - Product Description

Product Name: Chlorophyll Extract Solution

Product Code(s): C71453

Size: 2 mL

Chemical Name: See Section 3

CAS Number: See Section 3

Formula: See Section 3

Synonyms: N/A

Distributor: Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215

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

Section 2 - Hazard Identification

Emergency Overview: Harmful by inhalation. Risk of serious damage to eyes. Toxic: danger of very serious irreversible effects through inhalation and if swallowed.

Potential Health Effects:

Eyes: Causes severe burns and eye damage upon direct contact. Vapor is irritating.

Skin: May cause irritation to skin.

Ingestion: May severely irritate or damage digestive tract.

Inhalation: May cause irritation to respiratory tract.

Section 3 - Composition / Information on Ingredients

Principal Hazardous Components: Methyl Alcohol (CAS# 67-56-1) 70%; Chlorophyllin (CAS# 11006-34-1) 1.0%; Orange G (CAS# 1936-15-8) 0.05%; Alizarin Yellow R (CAS# 1718-34-9) 0.2%

TLV units: ACGIH-TLV (Methanol) 200 ppm (TWA); 250 ppm (Ceiling)

PEL units: OSHA-PEL (Methanol) 200 ppm (TWA)

Section 4 - First Aid Measures

Emergency and First Aid Procedures:

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

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

Ingestion - If swallowed, if conscious, give plenty of water and induce vomiting immediately as directed by medical personnel. Immediately call a physician or poison control center. Never give anything by mouth to an unconscious person.

Inhalation - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Section 5 - Firefighting Procedures

Flash Point (Method Used): 17.22 °C (CC)

NFPA Rating:

Health: 1

Fire: 3

Reactivity: 0

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

Flammable Limits in Air % by Volume: LEL: 7.3% UEL: 36%

Autoignition Temperature: (100% Methanol) 463 °C

Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Vapours may travel back to ignition source. Closed Containers exposed to heat may explode.

Section 6 - Spill or Leak Procedures

Steps to Take 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.

Section 7 - Special Precautions

Precautions to Take in Handling or Storing: Avoid contact with skin and eyes. Keep container tightly closed in a cool, well-ventilated place.

Section 8 - Protection Information

Respiratory Protection (Specify Type): None needed under normal conditions of use with adequate ventilation. A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

Ventilation:

Local Exhaust: Yes

Mechanical(General): Recommended

Special: No

Other: No

Protective Gloves: Natural rubber, Neoprene, PVC or equivalent.

Eye Protection: Splash proof chemical safety goggles should be worn.

Other Protective Clothing or Equipment: Lab coat, apron, eye wash, safety shower.

Section 9 - Physical Data

Molecular Weight: N/A

Boiling Point: 71.67 °C

Vapor Density(Air=1): N/A

Percent Volatile by Volume: 99.75%

Solubility in Water: Soluble

Melting Point: -104.3 °C

Vapor Pressure: 66.5 mmHg at 20 °C

Specific Gravity (H2O=1): 0.8715

Evaporation Rate (BuAc=1): N/A

Appearance and Odor: Greenish brown liquid with pungent

odor.

Section 10 - Reactivity Data

Stability: Stable

Conditions to Avoid: Heat and sources of ignition.

Incompatibility (Materials to Avoid): Acids, Oxidizers, Metals,

Hazardous Decomposition Products: COx, Formaldehyde,

Hazardous Polymerization: Will not occur

Section 11 - Toxicity Data

Toxicity Data: (Methanol) orl-rat LD50 5600 mg/kg
(Orange G) orl-rat TDLo 26250 mg/kg/15W Continuous
(Chlorophyllin) itv-mus LD50 285 mg/kg

Effects of Overexposure:

Acute: See Section 2

Chronic: Mutation data cited. Reproductive data cited. Tumorigenic data cited. Not listed as a carcinogen by IARC, NTP or OSHA.

Conditions Aggravated by Overexposure: N/A

Target Organs: Kidneys, Liver, Central Nervous System, Cardiovascular system,

Primary Route(s) of Entry: N/A

Section 12 - Ecological Data

EPA Waste Numbers: D001

Section 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.

Section 14 - Transport Information

DOT Proper Shipping Name: UN1230, Methanol Solution, 3, II, Ltd. Qty, 1 Lt.

Section 15 - Regulatory Information

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute Fire Chronic

Name List:

(Methanol) Yes

Chemical Category:

No

CERCLA Section 103 RQ(lb.): (Methanol) 5000

RCRA Section 261.33: (Methanol) U154

Section 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
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act