

Material Safety Data Sheet



Coomassie Protein Stain Solution

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Carolina Biological Supply Company

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CAROLINA
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Section 1 - Product Description

Product Name: Coomassie Protein Stain Solution

Product Code(s): 21-9784, 21-1260

Size: 500 mL

Chemical Name: Product is a mixture

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: Flammable. Harmful if swallowed. Do not breathe gas/fumes/vapour/spray.

Potential Health Effects:

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

Skin: May cause severe irritation or chemical burns.

Ingestion: May severely irritate or damage digestive tract.

Inhalation: May severely irritate or damage mucous membranes and respiratory tract.

Section 3 - Composition / Information on Ingredients

Principal Hazardous Components: Acetic Acid (CAS# 64-19-7) 10%

Isopropanol (CAS# 67-63-0) 45%

TLV units: (Isopropanol) ACGIH-TLV 200 ppm (TWA); 400 ppm (STEL)

(Acetic Acid) ACGIH-TLV 10 ppm (TWA); 15 ppm (STEL)

PEL units: (Isopropanol) OSHA-PEL 400 ppm (TWA)

(Acetic Acid) OSHA-PEL 10 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, take off immediately all contaminated clothing, and wash immediately with plenty of water.

Ingestion - If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label. If swallowed, rinse mouth with water (only if the person is conscious).

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

Section 5 - Firefighting Procedures

Flash Point (Method Used): (Isopropanol) 12 °C (CC) (Acetic Acid) 39 °C (CC)

NFPA Rating:

Health: 3

Fire: 3

Reactivity: 0

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

Flammable Limits in Air % by Volume: (Isopropanol) LEL: 2.5% UEL: 12.0%

Autoignition Temperature: (Isopropanol) 399 °C (Acetic Acid) 427 °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.

In use, may form flammable/explosive vapour-air mixture.

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: Do not breathe gas/fumes/vapour/spray.

Avoid excess heat.

Keep away from sources of ignition - No smoking.

This material should be kept in an area suitable for the storage of flammable liquids. Store away from oxidizing agents, sparks and flame.

Bond and ground containers when transferring liquid.

Harmful if swallowed.

Avoid contact with eyes.

After contact with skin, wash immediately with plenty of water. 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): Yes

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: N/A

Vapor Density(Air=1): >1

Percent Volatile by Volume: N/A

Solubility in Water: Soluble

Melting Point: N/A

Vapor Pressure: N/A

Specific Gravity (H2O=1): N/A

Evaporation Rate (BuAc=1): N/A

Appearance and Odor: Clear, colorless liquid, Alcohol odor.

Section 10 - Reactivity Data

Stability: Stable

Conditions to Avoid: Heat and sources of ignition.

Incompatibility (Materials to Avoid): Oxidizers, Reducing agents, Metals, Acids, Bases,

Hazardous Decomposition Products: CO_x,

Hazardous Polymerization: Will not occur

Section 11 - Toxicity Data

Toxicity Data: (Isopropanol) orl-rat LD50 5045 mg/kg; ihl-rat LC50 16000 ppm/8H

(Acetic Acid) orl-rat LD50 3310 mg/kg; ihl-mus LC50 5620 ppm/1H

Effects of Overexposure:

Acute: See Section 2

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

Conditions Aggravated by Overexposure: Skin disorders, Eye disorders,

Target Organs: Kidneys, Central Nervous System,

Primary Route(s) of Entry: N/A

Section 12 - Ecological Data

EPA Waste Numbers: (Isopropanol) 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: UN 1993, Flammable liquids, n.o.s. (isopropanol), 3, II

Labels: Flammable, corrosive

Section 15 - Regulatory Information

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute

Name List:

Isopropanol - No

Acetic Acid - No

Chemical Category:

Isopropanol - Yes

Acetic Acid - No

CERCLA Section 103 RQ(lb.): Isopropanol - No

Acetic Acid - 5000

RCRA Section 261.33: Isopropanol - No

Acetic Acid - No

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