

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Trade name : Cable Clear®

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Cleaner solution. Degreaser.

#### 1.3. Supplier

BioChem Systems, Inc.  
480 Wildwood Forest Drive  
Suite 400  
Spring, TX 77380  
1 (800) 777-7870

#### 1.4. Emergency telephone number

Emergency number : (800) 633-8253

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### Cleaning solution

##### GHS classification

Flam. Liq. 3 H226  
Skin Irrit. 2 H315  
Skin Sens. 1 H317  
Asp. Tox. 1 H304

#### 2.2. GHS Label elements, including precautionary statements

##### GHS labelling

Hazard pictograms (GHS) :



Signal word (GHS) :

Danger

Hazard statements (GHS) :

H226 - Flammable liquid and vapour.  
H304 - May be fatal if swallowed and enters airways.  
H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.

Precautionary statements (GHS) :

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 - Keep container tightly closed.  
P240 - Ground/Bond container and receiving equipment  
P241 - Use explosion-proof ventilating, lighting, electrical equipment.  
P242 - Use only non-sparking tools.  
P243 - Take precautionary measures against static discharge.  
P261 - Avoid breathing vapours, spray, mist, gas.  
P264 - Wash hands, forearms and face thoroughly after handling.  
P272 - Contaminated work clothing must not be allowed out of the workplace  
P280 - Wear eye protection, face protection, protective clothing, protective gloves.  
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER, a doctor  
P302+P352 - If on skin: Wash with plenty of soap and water  
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower  
P321 - Specific treatment (see first aid instructions on this label)  
P331 - Do NOT induce vomiting.  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P370+P378 - In case of fire: Use alcohol resistant foam, Carbon dioxide (CO<sub>2</sub>), dry extinguishing powder, dry sand, dry chemical to extinguish.  
P403+P235 - Store in a well-ventilated place. Keep cool.  
P405 - Store locked up.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

#### 2.3. Other hazards which do not result in classification

No additional information available

#### 2.4. Unknown acute toxicity (GHS)

Not applicable

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Name	Product identifier	%
D-Limonene	(CAS-No.) 5989-27-5	80 - 100

# Cable Clear®

## Safety Data Sheet

### 3.2. Mixtures – Not Applicable

#### SECTION 4: First-aid measures

##### 4.1. Description of first aid measures

- First-aid measures general : If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.
- First-aid measures after inhalation : IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention. If breathing is difficult, supply oxygen. If breathing has stopped, give artificial respiration.
- First-aid measures after skin contact : IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation develops or persists, get medical attention.
- First-aid measures after eye contact : IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Get medical attention immediately. Continue rinsing.
- First-aid measures after ingestion : IF SWALLOWED: rinse mouth thoroughly. Do not induce vomiting without advice from poison control center or medical professional. Get medical attention immediately.

##### 4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects : May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction.
- Symptoms/effects after inhalation : May cause respiratory irritation.
- Symptoms/effects after skin contact : Causes skin irritation. May cause an allergic skin reaction.
- Symptoms/effects after eye contact : Direct contact with eyes is likely to be irritating.
- Symptoms/effects after ingestion : May be fatal if swallowed and enters airways.

##### 4.3. Immediate medical attention and special treatment, if necessary

No additional information available

#### SECTION 5: Fire-fighting measures

##### 5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray.
- Unsuitable extinguishing media : Do not use a heavy water stream.

##### 5.2. Specific hazards arising from the chemical

- Fire hazard : Flammable liquid and vapour.
- Explosion hazard : No data available.
- Reactivity : The substance is stable under normal storage and handling conditions.

##### 5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment. Eliminate all ignition sources if safe to do so.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.
- Other information : Guard against spontaneous combustion of improperly discarded oily rags.

#### SECTION 6: Accidental release measures

##### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Keep unnecessary personnel away. Eliminate ignition sources. Avoid contact with skin or inhalation of spillage, dust or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them.

##### 6.1.1. For non-emergency personnel

- Protective equipment : Wear Protective equipment as described in Section 8.
- Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

- Protective equipment : Use self-contained breathing apparatus.

##### 6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid release to the environment. Retain and dispose of contaminated wash water. Contact local authorities in case of spillage to drain/aquatic environment.

##### 6.3. Methods and material for containment and cleaning up

- For containment : Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps. Stop leak without risks if possible. Store in closed containers outside buildings and dispose of according to the Waste Regulations. (See section 13). Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
- Methods for cleaning up : Dike the spilled material, where this is possible. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13). Clean, preferably with a detergent. Do not use solvents. Do not allow into drains or water courses.

##### 6.4. Reference to other sections

See Sections 8 and 13.

#### SECTION 7: Handling and storage

##### 7.1. Precautions for safe handling

- Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.
- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. No open flames. No smoking. Flammable vapours may accumulate in the container. Take precautionary measures against static discharge. Use only non-sparking tools.
- Hygiene measures : Wash thoroughly after handling.

# Cable Clear®

## Safety Data Sheet

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof equipment.
Storage conditions	: Store in a well-ventilated place. Keep container tightly closed.
Incompatible products	: Heat sources.
Incompatible materials	: Strong oxidizing agents. Acids.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

D-Limonene (5989-27-5)		
OSHA	Remark	Occupational exposure limit not established
ACGIH	Remark	Occupational exposure limit not established
All Canadian Provinces	Remark	Occupational exposure limit not established

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

### 8.3. Individual protection measures/Personal protective equipment

Personal protective equipment symbol(s):



#### Personal protective equipment:

Safety glasses. Gloves. Protective clothing.

#### Materials for protective clothing:

Wear suitable protective clothing, gloves and eye/face protection

#### Hand protection:

Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Suitable gloves for this specific application can be recommended by the glove supplier. Change contaminated gloves immediately.

#### Eye protection:

Wear eye protection, including chemical splash goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles.

#### Skin and body protection:

Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.

#### Respiratory protection:

In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment with gas filter (type A2). Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection. Wear a NIOSH-approved (or equivalent) full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Cleaning solution

Physical state	: Liquid
Appearance	: Clear. Bright.
Colour	: Clear Straw
Odour	: Orange
Odour threshold	: No data available
pH	: No data available
Melting point	: < -80 °C
Freezing point	: No data available
Boiling point	: 176 °C
Flash point	: 51 °C
Relative evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 2.3 hPa(a) (1.7 mm Hg) @ 20 °C
Relative vapour density at 20 °C	: No data available
Relative density	: 0.84 @ 20 °C (H <sub>2</sub> O=1)
Solubility	: Water: 5.69 mg/l
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 0.846 mPa·s @ 25 °C
Explosive limits	: 0.7 - 6.1 vol %
Explosive properties	: No data available
Oxidising properties	: Not an Oxidizer.

### 9.2. Other information

No additional information available

# Cable Clear®

## Safety Data Sheet

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The substance is stable under normal storage and handling conditions.

#### 10.2. Chemical stability

No data available.

#### 10.3. Possibility of hazardous reactions

Hazardous polymerization does not occur.

#### 10.4. Conditions to avoid

Heat.

#### 10.5. Incompatible materials

Oxidizing agents.

#### 10.6. Hazardous decomposition products

Thermal decomposition generates : Carbon oxides (CO, CO<sub>2</sub>). Toxic fumes.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

#### D-Limonene (5989-27-5)

LD50 oral rat 4400 mg/kg

LD50 dermal rabbit > 5000 mg/kg

Skin corrosion/irritation : Causes skin irritation.  
Serious eye damage/irritation : Not classified  
Respiratory or skin sensitisation : May cause an allergic skin reaction.  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified  
Reproductive toxicity : Not classified  
STOT-single exposure : Not classified  
STOT-repeated exposure : Not classified  
Aspiration hazard : May be fatal if swallowed and enters airways.  
Viscosity, kinematic : No data available  
Symptoms/effects : May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction.  
Symptoms/effects after inhalation : May cause respiratory irritation.  
Symptoms/effects after skin contact : Causes skin irritation. May cause an allergic skin reaction.  
Symptoms/effects after eye contact : Direct contact with eyes is likely to be irritating.  
Symptoms/effects after ingestion : May be fatal if swallowed and enters airways.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : Very toxic to aquatic life with long lasting effects.

#### D-Limonene (5989-27-5)

LC50 fish 1 0.72 mg/l 96h Fathead Minnow (Pimephales promelas)

EC50 daphnia 1 0.307 mg/l

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

### SECTION 14: Transport information

#### Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN2319 Terpene hydrocarbons, n.o.s. (Contains: d-limonene), 3, III

UN-No.(DOT) : UN2319

Proper Shipping Name (DOT) : Terpene hydrocarbons, n.o.s.  
Contains: d-limonene

Class (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Packing group (DOT) : III - Minor Danger

Hazard labels (DOT) : 3 - Flammable liquid

DOT Quantity Limitations Passenger aircraft/rail : 60 L  
(49 CFR 173.27)



# Cable Clear®

## Safety Data Sheet

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 220 L  
Emergency Response Guide (ERG) Number : 128  
Other information : Non-Bulk Domestic Ground: This material is not regulated for domestic ground shipments by the U.S. Department of Transportation (DOT) when transported in non-bulk (a packaging which has a maximum capacity of 119 gallons or less as a receptacle for a liquid). Reference 49 CFR 173.120(b) (2) and 173.150 (f) (1). In summary, for non-bulk domestic ground shipments:  
DOT Class: Not Regulated Hazard Class: Not Applicable UN No.: Not Applicable

### Transportation of Dangerous Goods

In accordance with TDG  
UN-No. (TDG) : UN2319  
Packing group : III - Minor Danger  
TDG Primary Hazard Classes : 3 - Class 3 - Flammable Liquids  
Transport document description : UN2319 TERPENE HYDROCARBONS, N.O.S. (contains: d-limonene), 3, III  
Proper Shipping Name (Transportation of Dangerous Goods) : TERPENE HYDROCARBONS, N.O.S. contains: d-limonene  
Hazard labels (TDG) : 3 - Flammable liquids



Explosive Limit and Limited Quantity Index : 5 L  
Excepted quantities (TDG) : E1  
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index : 60 L  
Other information :

In accordance with TDG Part 9: Consignments of dangerous goods that originate in the United States... can be transported in Canada under the requirements of 49 CFR. However, consignments that originate in Canada are not permitted under these Regulations...When a consignment of dangerous goods is transported from a place outside Canada to a place in Canada and is reshipped within Canada by road vehicle, the dangerous goods safety marks displayed in accordance with 49 CFR, the ICAO Technical Instructions or the IMDG Code at the time of entry into Canada may continue to be displayed...The shipping document that accompanies the dangerous goods must include a notation that the dangerous goods safety marks are in accordance with 49 CFR, the ICAO Technical Instructions or the IMDG Code  
DOT (TDG) Class: Not Regulated Hazard Class: Not Applicable UN No.: Not Applicable

### Transport by sea (IMDG)

Transport document description (IMDG) : UN 2319 TERPENE HYDROCARBONS, N.O.S. (Contains: d-limonene), 3, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS (32°C c.c.)  
UN-No. (IMDG) : 2319  
Proper Shipping Name (IMDG) : TERPENE HYDROCARBONS, N.O.S.  
Class (IMDG) : 3 - Flammable liquids  
Packing group (IMDG) : III - substances presenting low danger  
Limited quantities (IMDG) : 5 L

### Air transport (IATA)

Transport document description (IATA) : UN 2319 Terpene hydrocarbons, n.o.s. (Contains: d-limonene), 3, III, ENVIRONMENTALLY HAZARDOUS  
UN-No. (IATA) : 2319  
Proper Shipping Name (IATA) : Terpene hydrocarbons, n.o.s.  
Class (IATA) : 3 - Flammable Liquids  
Packing group (IATA) : III

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

<b>Cable Clear®</b>	
All chemical substances in this product are listed as "Active" in the EPA (Environmental Protection Agency) "TSCA Inventory Notification (Active-Inactive) Requirements Rule" ("the Final Rule"). as of Feb. 2019 or are otherwise exempt.	
SARA Section 311/312 Hazard Classes	Physical hazard - Flammable (gases, aerosols, liquids, or solids) Health hazard - Skin corrosion or Irritation Health hazard - Aspiration hazard Health hazard - Respiratory or skin sensitization

### 15.2. Canadian regulations

<b>D-Limonene (5989-27-5)</b>
All chemical substances in this product are listed on the Canadian Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL) or are exempt

### 15.3. US State regulations

This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

## SECTION 16: Other information

Revision date : 10/12/2023  
Other information : Revised by: Regulatory & Compliance.

# Cable Clear®

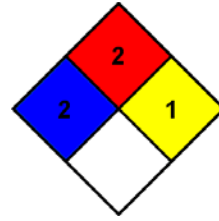
## Safety Data Sheet

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NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA fire hazard : 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.

NFPA reactivity : 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.



HMIS Hazard Rating

Health : 2

Flammability : 2

Physical : 1

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*