



Safety Data Sheet (SDS)

Issue date 10/27/2017

Reviewed on 10/27/2017

1 Identification

- **Product Identifier**
- **Trade name: Lost Coast Plant Therapy**
- **Relevant identified uses of the substance or mixture and uses advised against:**
No further relevant information
- **Product Description** Organic and natural plant spray concentrate
- **Details of the Supplier of the Safety Data Sheet:**
- **Manufacturer/Supplier:**
Plant Protector, LLC
2174 Table Bluff Rd.
Loleta, Ca. 95551
debiplanttherapy@gmail.com
lostcoastplanttherapy.com
415 309-6114
- **Emergency telephone number:** 1-800-467-4922

2 Hazard(s) Identification



Signal word: Danger

Hazard-determining components of labeling: Isopropanol 99%

Hazard statements:

- H225 Highly flammable liquid and vapor.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.

Precautionary statements:

- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P261 Avoid breathing mist/ vapours/ spray.
- P264 Wash skin thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/ eye protection/ face protection.

Response:

- P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.



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P337 + P313 If eye irritation persists: Get medical advice/ attention.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol resistant foam to extinguish

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Unknown acute toxicity:

This value refers to knowledge of known, established toxicological or ecotoxicological values.

58 % of the mixture consists of component(s) of unknown toxicity.

· **Classification system:** NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme· **NFPA ratings (scale 0 - 4)**· **HMIS-ratings (scale 0 - 4)**

HEALTH	1	Health = 1
FIRE	3	Fire = 3
REACTIVITY	0	Reactivity = 0

· **Hazard(s) not otherwise classified (HNOC):** None known

3 Composition/Information on Ingredients

Non-hazardous components:

58846-77-8	Decyl β-D-glucopyranoside	15-35%
7732-18-5	Water, distilled water, deionized water	5-10%

Chemical characterization: Mixtures· **Description:** Mixture of substances listed below with non-hazardous additions.**Dangerous Components:**

CAS: 8001-22-7	Soybean oil	25-50%
CAS: 67-63-0 RTECS: NT 8050000	Isopropyl alcohol ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2A, H319; STOT SE 3, H336	25-50%
CAS: 77-92-9 RTECS: GE 7350000	Citric Acid ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319	≤ 2.5%
CAS: 84082-70-2	Peppermint oil ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; Flam. Liq. 4, H227	≤ 2.5%

Additional information:

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.



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4 First-Aid Measures

- **Description of first aid measures:**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
Wash with soap and water.
If skin irritation occurs, consult a doctor.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** If swallowed and symptoms occur, consult a doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed:** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed:**
No further relevant information available.

5 Fire-Fighting Measures

- **Extinguishing media:**
- **Suitable extinguishing agents:** CO2, sand, extinguishing powder.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet.
- **Special hazards arising from the substance or mixture:** No further relevant information available.
- **Advice for firefighters:**
- **Protective equipment:**
As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures:**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Do not allow to enter sewers/surface or ground water.
- **Methods and material for containment and cleaning up:**
Ensure adequate ventilation.
Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
- **Reference to other sections:**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

Protective Action Criteria for Chemicals· **PAC-1:**

67-63-0	Isopropyl alcohol	400 ppm
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· **PAC-2:**

67-63-0	Isopropyl alcohol	2000* ppm
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· **PAC-3:**

67-63-0	Isopropyl alcohol	12000** ppm
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7 Handling and Storage



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- **Handling**
- **Precautions for safe handling:** No special precautions are necessary if used correctly.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **Conditions for safe storage, including any incompatibilities:**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s):** No further relevant information available.

8 Exposure Controls/Personal Protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters:**
- **Components with occupational exposure limits:**
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

8001-22-7 Soybean oil	
TWA	Short-term value: 5 mg/m ³ Long-term value: 15 mg/m ³
67-63-0 Isopropyl alcohol	
PEL	Long-term value: 980 mg/m ³ , 400 ppm
REL	Short-term value: 1225 mg/m ³ , 500 ppm Long-term value: 980 mg/m ³ , 400 ppm
TLV	Short-term value: 984 mg/m ³ , 400 ppm Long-term value: 492 mg/m ³ , 200 ppm BEI
· Ingredients with biological limit values:	
67-63-0 Isopropyl alcohol	
BEI	40 mg/L Acetone (background, nonspecific)



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- Evaporation rate:** 1RWDBLODEOH
- **Solubility in / Miscibility with:**
 - Water:** 1RWDBLODEOH
- **Partition coefficient (n-octanol/water):** Not available
- **Viscosity:**
 - Dynamic:** Not available.
 - Kinematic:** Not available.
- **Solvent content:**
 - Organic solvents:** 59.2 % by Volume
 - Water:** 18.6 % by Volume
 - VOC content:** 21.4 % by Volume
- **Solids content:** 0.8 % by Volume
- **Other information:** No further relevant information available.

10 Stability and Reactivity

- **Reactivity:** No further relevant information available.
- **Chemical stability:** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological Information

- **Information on toxicological effects:**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

67-63-0 Isopropyl alcohol

Oral	LD50	5045 mg/kg (Rat)
Dermal	LD50	12800 mg/kg (Rabbit)
Inhalative	LC50/4 h	30 mg/l (Rat)
	LC50/96 hours	9640 mg/l (Pimephales)

Proprietary acid

Oral	LD50	5040 mg/kg (Mouse)
		5400 mg/kg (Rat)
Dermal	LD50	>2000 mg/kg (Rat)
	LC50/48 hrs	440 mg/l (Daphnia)

- **Primary irritant effect:**
- **On the skin:** May cause an allergic skin reaction.
- **On the eye:** Irritating effect.
- **Additional toxicological information:**

- **Carcinogenic categories:**

- **IARC (International Agency for Research on Cancer):**

67-63-0 Isopropyl alcohol

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Trade name: Lost Coast Plant Therapy**· NTP (National Toxicology Program):**

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

12 Ecological Information

· Toxicity:**· Aquatic toxicity:****67-63-0 Isopropyl alcohol**

EC50 6851 mg/l (Green algae)

5102 mg/l (Water flea)

Proprietary acid

EC50 1534 mg/l (Daphnia)

· Persistence and degradability: No further relevant information available.**· Behavior in environmental systems:****· Bioaccumulative potential:** No further relevant information available.**· Mobility in soil:** No further relevant information available.**· Additional ecological information:****· General notes:**

Do not allow undiluted product or product that has not been neutralized to reach ground water, water course or sewage system.

· Results of PBT and vPvB assessment:**· PBT:** Not applicable.**· vPvB:** Not applicable.**· Other adverse effects:** No further relevant information available.

13 Disposal Considerations

· Waste treatment methods:**· Recommendation:**

Observe all federal, state and local environmental regulations when disposing of this material.

· Uncleaned packagings**· Recommendation:** Disposal must be made according to official regulations.

14 Transport Information

· UN-Number:**· DOT, ADR/ADN, IMDG, IATA**

UN1219

· UN proper shipping name:**· US DOT**

Isopropanol

· ADR/ADN

UN1219 Isopropanol mixture

· IMDG, IATA

ISOPROPANOL (ISOPROPYL ALCOHOL) mixture



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· **Transport hazard class(es):**

· **US DOT**



· **Class:** 3 Flammable liquids
· **Label:** 3

· **ADR/ADN**



· **Class:** 3 (F1) Flammable liquids
· **Label:** 3

· **IMDG, IATA**



· **Class:** 3 Flammable liquids
· **Label:** 3
· **Packing group:** II
· **DOT, ADR/ADN, IMDG, IATA** II
· **Environmental hazards:** Not applicable.
· **Special precautions for user:** Warning: Flammable liquids 33
· **Danger code (Kemler):** F-E,S-D
· **EMS Number:** B
· **Stowage Category**
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.
· **Transport/Additional information:**
· **DOT**
· **Quantity limitations:** On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
· **Limited Quantity:** 1L

· **ADR/ADN**

· **Excepted quantities (EQ):** Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml

· **IMDG**

· **Limited quantities (LQ):** 1L
· **Excepted quantities (EQ):** Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml

· **UN "Model Regulation":**

UN 1219 ISOPROPANOL MIXTURE, 3, II



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15 Regulatory Information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture:**
- **SARA (Superfund Amendments and Reauthorization):**

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

67-63-0 Isopropyl alcohol

· **TSCA (Toxic Substances Control Act):**

8001-22-7 Soybean oil

67-63-0 Isopropyl alcohol

Proprietary acid

7732-18-5 Water, distilled water, deionized water

· **California Proposition 65:**

· **Chemicals known to cause cancer:**

None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

· **New Jersey Right-to-Know List:**

67-63-0 Isopropyl alcohol

· **New Jersey Special Hazardous Substance List:**

67-63-0 Isopropyl alcohol

F3

· **Pennsylvania Right-to-Know List:**

8001-22-7 Soybean oil

67-63-0 Isopropyl alcohol

· **Pennsylvania Special Hazardous Substance List:**

67-63-0 Isopropyl alcohol

E

· **Carcinogenic categories:**

· **EPA (Environmental Protection Agency):**

None of the ingredients are listed.

· **TLV (Threshold Limit Value established by ACGIH):**

67-63-0 Isopropyl alcohol

A4

· **NIOSH-Ca (National Institute for Occupational Safety and Health):**

None of the ingredients are listed.

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).



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16 Other Information

Revision Date: 10/27/17
Revised by: Kenneth Dunn

Disclaimer: The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

Abbreviations and acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety and Health
OSHA: Occupational Safety & Health Administration
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEI: Biological Exposure Limit
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 4: Flammable liquids – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Skin Sens. 1: Skin sensitisation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3