



**2.2 GHS Label elements, including precautionary statements. (continued)****Precautionary Statements - Response:**

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

P370+P378 - In case of fire: Use solvent resistant foam, carbon dioxide (CO<sub>2</sub>), dry extinguishing powder. Cool closed containers exposed to fire with water spray to extinguish.

**Precautionary Statements - Storage:**

P403+P235 - Store in a well-ventilated place. Keep cool P405 - Store locked up

**Precautionary Statements - Disposal:**

P501 - Dispose of contents/container to comply with applicable local, national and international regulation.

**2.3 Hazards not otherwise classified (HNOC): n/a****2.4 Unknown Toxicity**

Essential oils blend is a "mixture" for which no health data exist. This product has not been subjected to toxicological testing but has been blended from materials with established toxicological bibliographies. The composition of this mixture is protected by trade secret provision.

**2.5 Other information:**

Prolonged or repeated contact may dry skin and cause irritation.

Toxic to aquatic life with long lasting effects.

**2.6 Interactions with Other Chemicals;**

Essential oils may react with other chemicals to give unknown products.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	CASR-No.	% (w/w)	Trade Secret (*)
Isododecane	93685-81-5	98 - 100	
1,2-Propanediol, 3-[(2-ethylhexyl)oxy]	70445-33-9	0.10 - 0.50	
Essential oils blend	Proprietary	0.30 - 1.00	(*)

(\*) The complete composition and exact percentage (concentration) have been withheld as a trade secret.

**4. FIRST AID MEASURE****4.1 Description of first aid measures**

**First-aid measures general:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**Inhalation:** Move to fresh air. Seek medical advice if cough or other respiratory problem occur.

**Skin contact:** Wash off with plenty of water. Seek medical advice if redness, swelling, itching, burning occur or having allergic reactions.

**Eye contact:** Rinse thoroughly with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub the affected area. Remove contact lens. Consult a physician if irritation persists.

**Ingestion:** Call a physician or Poison Control Centre immediately and follow their instructions. Do not induce vomiting.

**4.2 Most important symptoms and effects both acute and delayed:**

Symptoms of acute accidental exposure would be non-specific.

**4.3 Indication of immediate medical attention and special treatment needed:**

In case of serious respiratory or vomit, call a physician or Poison Control Centre immediately and follow their instructions.

**5. FIRE-FIGHTING MEASURES****5.1 Extinguishing media:**

**Suitable extinguishing media:** Foam. Dry powder. Carbon dioxide. Sand.

**Unsuitable extinguishing media:** Do not use a solid water stream as it may scatter and spread fire.

**5.2 Special hazards arising from the substance or mixture:**

**Fire hazard:** Flammable liquid and vapour. HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames. Vapours may be ignited by static discharges.

**Explosion hazard:** May form flammable/explosive vapour-air mixture. Releases vapours above flash point. Heavier than air, vapours may travel long distances along ground, ignite and flash back to source.

**5.3 Hazardous Combustion Products:**

Carbon oxides

**5.4 Advice for fire-fighters:**

**Uniform Fire Code:** Flammable Liquid I-B

Move containers from fire area IF there is no risk.

**5.5 Explosion Data**

Sensitivity to mechanical impact: No

Sensitivity to static discharge: Yes

**6. ACCIDENTIAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures:**

- Eliminate / remove all ignition sources (no smoking, flares, sparks or flames in immediate area).
- All equipment used when handling these products must be grounded.
- Stop leak IF there is no risk for this action. Do not touch or walk through spilled material.

**Other Information:**

Water spray may reduce vapor, but may not prevent ignition in closed spaces. A solid water stream may scatter and spread fire.

**6.2 Environmental precautions**

Prevent entry into basements, confined areas, waterways or sewers.

**6.3 Methods and material for containment and cleaning up:**

- Use dry earth, sand or non-combustible absorbents /pads and transfer to containers.
- A vapor suppression foam may be used to reduce vapors.
- Take precautionary measures against static discharges.
- Use non-sparking tools to collect absorbed materials.

**7. HANDLING AND STORAGE****7.1 Precautions for safe handling:**

- Obtain special instructions before use. Handle in accordance with good industrial hygiene and safety practice. Use personal protection equipment.
- Avoid contact with skin and eyes. Avoid breathing vapors or mists. No smoking.
- Use grounding and bonding connection when transferring this material to prevent static discharge. Use spark-proof tools and explosion-proof equipment.
- Use with local exhaust ventilation. Use according to package label instructions.

**7.2 Conditions for safe storage, including any incompatibilities:****7.2.1 Storage:**

- Keep containers tightly closed in a dry, cool and well-ventilated place and kept upright to prevent leakage. Keep in properly labeled containers.
- Keep away from heat, sparks, flame and other sources of ignition (i.e: electric motors, pilot lights, static electricity, ...)

**7.2.: Storage: (continued)**

- Do not store near combustible materials. Keep in an area equipped with sprinklers.
- Store in accordance with the particular national regulations. Store in accordance with the local regulations.

**7.2.: Incompatible Products:**

No information available

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION:****8.1 Control parameters:**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Isododecane 93685-81-5	No exposure limit value known	No exposure limit value known	No exposure limit value known
1,2-Propanediol, 3-[(2-ethylhexyl)oxy] 70445-33-9	No exposure limit value known	No exposure limit value known	No exposure limit value known

**ACGIH TLV:** American Conference of Government Industrial Hygienists - Threshold Limit Value.

**OSHA PEL:** Occupational Safety and Health Administration - Permissible Exposure Limits.

**NIOSH IDLH:** National Institute for Occupational Safety and Health - Immediately Dangerous to Life or Health.

**8.2 Exposure controls:****8.2.1 Appropriate engineering controls:**

- Engineering Measures:**
- Showers
  - Eyewash stations
  - Ventilation systems

**8.2.2 Individual protection measures, such as personal protective equipment:**

**Eye / Face protection:** Tight sealing safety goggles.

**Hand and Body Protection:** Wear protective gloves and protective clothing.

Chemical resistant apron. Impervious gloves. Antistatic boots.

**Respiratory protection:** Respiratory protection is normally not required under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands before and immediately after handling the product.

**9. PHYSICAL AND CHEMICAL PROPERTIES:****9.1 Physical and chemical properties:**

- a- Physical state: Liquid
- b- Appearance: Clear to yellowish liquid
- c- Color: Clear to yellowish
- d- Odour: Aromatic
- e- pH : n/a
- f- Freezing point: < 0°C
- g- Boiling point: 176 to 192°C
- h- Flash point: 45°C / 113°F
- i- Specific gravity: 0.74 - 0.75
- j- Viscosity (25°C): No data available
- k- Water solubility: insoluble
- l- Flammability: Flammable
- m- Explosion limits: Lower: 0.5%  
Upper: 4%
- n- Auto-ignition temperature: 410°C / 770°F

**9.2 Other information:** No data available

**10. STABILITY AND REACTIVITY**

**10.1 Reactivity:** No data available

**10.2 Chemical stability:** Stable at ambient temperature and under normal conditions of use. Unstable on exposure to heat. Flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

**10.3 Possibility of hazardous reactions:** None under normal processing

**10.4 Hazardous polymerization:** Hazardous polymerization does not occur

**10.5 Conditions to avoid:** Direct sunlight. Extremely high or low temperatures. Open flame. Heat. Flames and sparks.

**10.6 Incompatible materials:** Strong acids. Strong bases. Strong oxidizing agents.

**10.7 Hazardous decomposition products:** Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide, NOx. Fume. May release flammable gases.

**11. TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects****Information on the likely route of exposure:**

Inhalation is the primary route of exposure. Repeated and prolonged exposure to large amount of vapors may cause irritation of respiratory system. May cause drowsiness and dizziness.

**Product information:**

Acute toxicity: Not available

Aspiration: Category 1

Eyes: Specific test data for the substance or mixture is not available

Skin: Specific test data for the substance or mixture is not available

Ingestion: Specific test data for the substance or mixture is not available

**Component information:****Acute toxicity:**

Isododecane (93685-81-5)	
LC50 Oral (Rat-male, female)	>5000 mg/kg
LC50 Dermal (Rabbit-male, female)	>5000 mg/kg
LC50 Inhalation Vapor (Rat)	>1850 g/m <sup>3</sup> , 4 h
LC50 Inhalation Vapor (Rat)	>21.3 g/m <sup>3</sup> , 1 h

**1,2-Propanediol, 3-[(2-ethylhexyl)oxy] (70445-33-9)**

LD50 Oral (Rat)	>2000 mg/kg
LC50 Dermal (Rat)	>2000 mg/kg
LC50 Inhalation Vapor (Rat)	3.07 mg/l

**Irritation /Corrosion**

Isododecane (93685-81-5)	
Skin - Erythema /Eschar (Rabbit)	Score 1.56, 72 h
Skin - Edema (Rabbit)	Score 0, 72 h
Eyes - Cornea opacity (Rabbit)	Score 0, 72 h
Eyes - Iris lesion (Rabbit)	Score 0, 72 h
Eyes - Edema of the conjunctivae	Score 0, 72 h
Eyes - Redness of the conjunctivae	Score 0, 72 h

**Mutagenic effects:** No data available

**Carcinogenicity:** No data available

**Reproductive toxicity:** No data available

**12. ECOLOGICAL INFORMATION****12.1 Ecotoxicity:**

Isododecane (93685-81-5)	
Acute EL50, Algae - Pseudokirchneriella subcapitata	>1000 mg/l, 72 h
Acute EL50, Daphnia - Mysidopsis bahia	>1000 mg/l, 96 h
Acute LL0, Fish - Oncorhynchus mykiss	>1000 mg/l, 96 h
Chronic NOAEL, Algae - Pseudokirchneriella subcapitata	>1000 mg/l, 72 h

**12.2 Persistence and degradability:** No data available

**12.3 Bioaccumulation potential:** No data available

**12.4 Other adverse effects:** Not established.

**13. DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods****Disposal methods:**

This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

**Contaminated packaging**

Dispose of contents/containers in accordance with local regulations.

**US EPA Waste Number:** D001

**14. TRANSPORT INFORMATION****DOT**

**UN-No.** UN2286  
**Proper Shipping Name** PENTAMETHYLHEPTANE  
**Hazard Class** 3  
**Packing Group** III  
**Emergency Response Guide**  
**Additional information:** B1, IB3, T2, TP1

**IATA - DGR Class**

**UN-No.** UN2286  
**Proper Shipping Name** PENTAMETHYLHEPTANE  
**Hazard Class** 3  
**Packing Group** III  
**Additional information:** **Passenger aircraft 355: 60 L**  
**Cargo aircraft 366: 220 L**

**IMDG/IMO**

**UN-No.** UN2286  
**Proper Shipping Name** PENTAMETHYLHEPTANE  
**Hazard Class** 3  
**Packing Group** III  
**EmS No.** F-E, S-D  
**Description** UN2286, PENTAMETHYLHEPTANE

**15. REGULATORY INFORMATION****International Inventories**

**TSCA** Complies  
**DSL** All components are listed either on DSL or NDSL

*TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*

*DSL/NDSL - Canadian Domestic Substances List / Non-Domestic Substances List*

**15. REGULATORY INFORMATION****US Federal Regulations**

**SARA 311/312 Hazard Categories:** Fire hazard  
Immediate (acute) health hazard

**SARA title III Section 302 , Extremely Hazardous Substances :** None

**SARA title III Section 313, Toxic Chemicals :** None

**US EPA CERCLA Hazardous Substances (40CFR 302):** None

**US State Regulations****California Proposition 65:**

To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, bith defects or reproductive harm.

**US State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Penn.	Illinois
Isododecane (93685-81-5)	X	X	X	
1,2-Propanediol, 3-[(2-ethylhexyl)oxy] (70445-33-9)				

**International Regulations****Canada**

<b>1,2-Propanediol, 3-[(2-ethylhexyl)oxy] (70445-33-9)</b>
Listed on the Canadian DSL (Domestic Sustances List)
WHMIS Classification E

**16. OTHER INFORMATION**

**NFPA** Health Hazard: 2 Flammability: 3 Reactivity: 0

**HMIS** Health Hazard: 2 Chronic Health Hazard: \* Flammability: 3  
Physical Hazard: 0 Personal Protection: x



**Main Ingredient List:** ISODODECANE, ETHYLHEXYLGLYCERIN, MELALEUCA ALTERNIFOLIA (TEA TREE) LEAF OIL, CITRUS LIMONUM (LEMON) PEEL OIL, CITRUS AURANTIUM DULCIS (ORANGE) PEEL OIL, CITRUS AURANTIFOLIA (LIME) PEEL OIL, CITRUS GRANDIS (GRAPEFRUIT) PEEL OIL.

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