



P.O. Box 15018
Hastings, New Zealand

MATERIAL SAFETY DATA SHEET
IN CASE OF LEAK OR SPILL CALL
(06) 879-9438

LAVENDORIA (Aerosol)

Section I - Product Identification

Product Name: Lavendoria (Aerosol)
Product Number: C900-LAV
CAS Number: Blend

Section II - Composition / Information on Ingredients

Chemical Name	Amount	CAS Number
D-Limonene	30.0 – 60.0 %	8028-48-6
Ethanol	10.0 – 30.0 %	64-17-5
2-Propanol	1.0 – 5.0 %	67-53-0
Methanol	1.0 – 5.0 %	67-56-1
Dimethylether (Propellant)	10.0 – 30.0 %	115-10-6

(See Section 8 for exposure guidelines) (See Section 15 for regulatory information)

Section III - Hazards Identification

WARNING - CAUTION: Contents under pressure. Flammable Liquid

NFPA Rating: Health: 1 Flammability: 3 Reactivity: 0

POTENTIAL HEALTH EFFECTS

Eye: Moderately irritating to the eyes.

Skin: Prolonged or repeated contact may result in drying of the skin, which may result in skin irritation and dermatitis.

Inhalation: May cause headaches and dizziness. Prolonged or excessive inhalation may cause respiratory tract irritation.

Ingestion: Ingestion of methanol can cause blindness and death.

Signs and Symptoms of Exposure: Dizziness, visual impairment, nausea, respiratory failure, muscular incoordination and narcosis.

Target Organ: Eyes, skin, respiratory system, and hepatic system.

Section IV - First Aid Measures

Eye Contact First Aid: Flush eye with water for 15 minutes. Get medical attention.

Skin Contact First Aid: Wash skin with soap and water.

Inhalation First Aid: Remove to fresh air.

Ingestion First Aid: Call a physician or poison control centre immediately. Get medical attention immediately.

Section V - Fire Fighting Measures

Flammable Properties: COC Flash Point: 14.4 C (59.9 F)

Autoignition Temperature: 725 C (1337.0 F)

Flammable Limits in Air: LEL: % UEL: %

Extinguishing Media: Carbon dioxide, foam, or dry powder.

Fire & Explosion Hazards: Can release vapors that form explosive mixtures at temperatures at or above the flashpoint. Vapors can travel to a source of ignition and flash back.

Fire Fighting Instructions: Explosive vapor could form. Avoid breathing smoke, fumes, and decomposition products. Contact emergency personnel as necessary. Evacuate non-emergency personnel to a safe area.

Combustion Products: Carbon monoxide and carbon dioxide.

Section VI - Accidental Release Measures

Safeguards (Personnel): Protect skin and eyes from exposure. Eliminate all sources of ignition – heat, sparks, flame, and electricity.

Initial Containment: Absorb spill with inert material.

Large Spills Procedure: Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Do not flush to sewer.

Small Spills Procedure: Clean up area by absorbent material.

Section VII - Handling and Storage

Handling (Personnel): Avoid prolonged or repeated contact with skin. Use with adequate ventilation.

Storage Precautions: Keep away from heat, sparks, and flame.

Section VII - Exposure Controls / Personal Protection

Eye / Face Protection Requirements: Where contact with this material is likely, eye protection is recommended.

Skin Protection Requirements: Where contact is likely, wear chemical resistant gloves.

Respiratory Protection Requirements: Under normal use conditions, with adequate ventilation, no special handling equipment is required.

Exposure Guidelines:

Ethanol: Immediate Lethal Dosage: 3300 ppm
OSHA TWA: 1000 ppm, 1900 mg/m³
ACGIH TWA: 1000 ppm, 1880 mg/m³

2-Propanol: Immediate Lethal Dosage: 2000 ppm
OSHA TWA: 400 ppm, 980 mg/m³
ACGIH TWA: 400 ppm, 983 mg/m³
ACGIH STEL: 500 ppm, 1230 mg/m³

Methanol: Immediate Lethal Dosage: 6000 ppm
OSHA TWA: 200 ppm, 260 mg/m³
ACGIH TWA: 200 ppm, 262 mg/m³
ACGIH STEL: 250 ppm, 328 mg/m³

Section IX - Physical and Chemical Properties

Form: Aerosol **Color:** Colorless **Odor:** Orange Aroma

Boiling Point: 65 C **Vapor Pressure:** 43 psia @ 20 C

Vapor Density: >1.1 (Air = 1) **Solubility In Water:** slight **Specific Gravity:** 0.8 (Water = 1)

% Volatiles: 97 %

Section X - STABILITY and Reactivity

Stability: Stable **Polymerization:** Hazardous polymerization will not occur.

Incompatibility With Other Materials: Incompatible with alkaline and alkaline earth metals. Avoid contact with strong oxidizing agents.

Decomposition: In the case of a fire, carbon dioxide and carbon monoxide may be produced.

Conditions to Avoid: Heat, sparks, and flames.

Section XI - Toxicological Information

Ethanol: Test Code: Oral LD50 Species: Rat Results: 7060 mg/Kg
Test Code: Inhalation LC50 Species: Rat Results: 20000 ppm/10H

Section XII - Ecological Information

Ethanol: Test Code: LC50 Species: Fingerling trout Results: 11,200 mg/1 24 Hr
Test Code: E20 Species: Daphnia Results: >7800 mg/L

Section XIII - Disposal Considerations

Waste Disposal: Incineration is recommended. Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

Section XIV - Transportation Information

Product Label: Lavendoria (Aerosol) **M.O.T. Shipping Name:** Consumer commodity

M.O.T. Hazard Class: ORM-D **M.O.T. Label:** None

Miscellaneous:

See M.O.T. Exception 49CFR 173,306 (h)

Please see the other side for more information

IATA Shipping Classification:

Aerosols, flammable, 2.1. UN1950. Packaging Instructions Y203, Limited Quantity

IMO / IMDG Shipping Classification:

AEROSOLS (maximum 1 litre), 2, UN1905 Limited Quantity. EmS Number: 2-13

Note: See IMDG Code 3.4.6.3.

Section XV – Regulatory Information

Regulatory Lists Searched:

01=SARA Title III Section 302 02=SARA Title Section 313
03=RCRA Hazardous Waste Codes 04=CERCLA Hazardous Substances
05=Clean Air Act 06=California Prop. 65
07=Florida Right-to-Know 08=Massachusetts Right-to-Know
09=New Jersey Right-to-Know 10=Pennsylvania Right-to-Know

Regulatory Disclosures: Ethanol, dimethyl ether, and methanol can be found on the following state lists:

Pennsylvania, Massachusetts, and Florida.



EEC Symbols and Indications of Danger: Extremely flammable (F+)

R-Phrases: R20/22 – Harmful by inhalation and if swallowed.

R38 – Irritating to skin

R10 – Flammable

S-Phrases: S24 – Avoid contact with skin

S36/39 – Wear suitable protective clothing and eye/face protection

S16.1 – Keep away from sources of ignition.

WHMIS Hazard Symbols: Class A – Compressed Gas, Class B – Flammable and Combustible Material



LAVENDORIA (Aerosol)

Canadian Disclosure List: Ethanol (64-17-5) 2-Propanol (67-63-0) Methanol (67-56-1)	SARA Title III – Section 313 2-Propanol (67-63-0) Methanol (67-56-1)
CERCLA Hazardous Substances Methanol (67-56-1) RCRA Code: U154	RCRA Hazardous Substances Methanol (67-56-1) RCRA Code: U154
Clean Air Act – Section 112 Methanol (67-56-1)	Title V 2-Propanol (67-63-0) Methanol (67-56-1)
SC Toxic Air Pollutants List (67-56-1)	

Miscellaneous Information: This material or all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substance Control Act (TSCA).

Section XVI – Other Information

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Supersedes Date: June 12, 2002

Approved by: Dale Jensen
Approval Date: November 13, 2002
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