

Material Safety Data Sheet

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Issue date: November 2005

LAVENDORIA

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: LAVENDORIA

Manufacturer's Product Code(s): C100-G, C100-4G

Use: Carpet cleaning product.

CHEM-DRYÆ AUSTRALIA

P B Mitchell Pty Ltd

A.C.N. 007 850 599

Suite 1 / 10 Hudson Ave

CASTLE HILL NSW 2154

Tel: (02) 9899 6677

Fax: (02) 9680 4171

2. HAZARDS IDENTIFICATION

HAZARDOUS ACCORDING TO ASCC/NOHSC/EU CRITERIA

Hazard Category: Irritant (Xi), Flammable

Hazard Classification: HAZARDOUS SUBSTANCE, DANGEROUS GOOD

RISK PHRASES

R10 Highly flammable

R36/38 Irritating to eyes and skin.

R43 May cause sensitisation by skin contact.

R50 Very toxic to aquatic organisms.

R53 May cause long term adverse effects in the aquatic environment.

R67 Vapours may cause drowsiness and dizziness.

SAFETY PHRASES

S7 Keep container tightly closed.

S16 Keep away from sources of ignition - No smoking.

S24/25 Avoid contact with skin and eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre.

S37 Wear suitable gloves.

S60 This material and/or its container must be disposed of as hazardous waste.

Road Transport

UN Number: 1993

Proper Shipping Name: FLAMMABLE LIQUID, N.O.S.(Contains ISOPROPANOL and d-LIMONENE)

Dangerous Goods Class: 3

Packing Group: III

Poison Schedule: None allocated [Aust].

Warning Statement:

Flammable Liquid. Will cause irritation to eyes and skin. Skin contact may also cause allergic reactions.

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3. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE NAME	Proportion	CAS Number
ISOPROPANOL	30 to 60 %	67-63-0
d-LIMONENE	60 to 100 %	5989-27-5

All other ingredients not hazardous according to ASCC/NOHSC/EU Criteria.

4. FIRST AID MEASURES

Swallowed:

If swallowed, **DO NOT** induce vomiting. If victim conscious, give 1 to 2 glasses of water to drink. Seek urgent medical assistance.

Eye:

If material is splashed into eyes, flush with plenty of water for at least 15 minutes, ensuring eye lids are held open. Immediately transport to hospital or doctor.

Skin:

If material is splashed onto the skin, remove any contaminated clothing and wash skin thoroughly with soap and water. If irritation persists immediately transport to hospital or doctor.

Inhaled:

Remove victim to fresh air. Apply resuscitation if victim is not breathing - Administer oxygen if breathing is difficult. Transport to hospital or doctor immediately.

First Aid Facilities:

Eye wash fountain, safety shower and normal wash room facilities.

Advice to Doctor:

Treat symptomatically.

In case of poisoning, contact Poisons Information Centre

In Australia call Tel: 131126

In New Zealand Tel: 034747000

5. FIRE-FIGHTING MEASURES

Fire/Explosion Hazard

SUITABLE EXTINGUISHING MEDIA: Foam, dry chemical or carbon dioxide.

HAZARDS FROM COMBUSTION PRODUCTS: On combustion there will be a release of oxides of carbon and noxious smoke.

PRECAUTIONS FOR FIRE FIGHTERS AND SPECIAL PROTECTIVE EQUIPMENT: Self-contained breathing apparatus (SCBA) required for fire-fighting personnel. If possible to do so safely, shut off fuel to fire. Can release vapours that form explosive mixtures at temperatures at or above the flashpoint. Vapours can travel to a source of ignition and flash back.

HAZCHEM CODE: 3[Y] [Aust]

FLAMMABILITY

This material is a FLAMMABLE liquid.

Flash Point: 27.8°

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6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures:

Flammable liquid. Avoid all sources of ignition. Provide adequate ventilation. Keep unnecessary people away; Isolate hazard area and deny entry. Wear suitable protective equipment as outlined under personal protection in this MSDS.

Methods and Materials for Containment and Clean Up Procedures:

Throw vermiculite or diatomaceous earth onto spill. **DO NOT** use sawdust. **ALLOW TO ABSORB**. Use non-sparking tools or HEPA vacuum system to pick up. Place into labelled drums for later disposal.

Emergency information(Transport):

Dangerous Goods - Initial Emergency Response Guide (SAA/SNZ HB76:1997)

For **LIQUIDS - Flammable**, Guide No: 15

7. HANDLING AND STORAGE

Precautions for Safe Handling:

Flammable liquid. Avoid ignition sources. Provide adequate ventilation. Do not get in eyes. Avoid direct or prolonged contact with skin.

Conditions for Safe Storage:

Keep containers tightly closed, when not using the product. Store in original packages as approved by manufacturer. Store in an area that is dry and well-ventilation away from ignition sources. Store below 27°C. Store away from strong oxidizing agents. For further information please refer to the Engineering Controls of this MSDS. Store in original packages as approved by manufacturer*.

* For further information please contact your Local Chem-Dry representative.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards

No exposure standards are available for this product, however, the following exposure standards have been assigned by [NOHSC] to the following components of the product:

ISOPROPANOL

[NOHSC]

[TWA]400 ppm 983 mg/m³

[STEL]500 ppm 1,230 mg/m³

References: H;R

Engineering Controls

Flammable liquid. Maintain adequate ventilation at all times. Prevent accumulation of vapours in hollows or sumps. Eliminate any sources of ignition.

Personal Protection Equipment

GLOVES: Butyl rubber, nitrile rubber.

EYES: Chemical goggles or spectacles with side shields to protect eyes.

RESPIRATORY PROTECTION: Avoid breathing of mists/vapours. Filter capacity and respirator type depends on exposure levels and type of contaminant. Select and use respirators in accordance with AS/NZS 1715/1716. When mists/vapours exceed the exposure standards then the use of a half-face respirator fitted with an organic vapour cartridge is recommended. If entering confined spaces or if unknown levels of contaminate are a potentiality, then the use of a Self-contained breathing apparatus (SCBA) with positive pressure air supply complying with AS/NZS 1715 / 1716, or any other acceptable International Standard is recommended.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colourless liquid with an orange odour.
Boiling Point:	Not available.
Vapour Pressure:	Not available.
Specific Gravity:	0.83
Flash Point:	27.8°C
Flammability Limits:	LEL: Not available. UEL: Not available.
Solubility in Water:	Insoluble.

Other Properties

% Volatiles: 100 %

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY:

Stable under normal conditions of use.

CONDITIONS TO AVOID:

Ignition sources and mixing with incompatibles.

INCOMPATIBLE MATERIALS:

Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS:

Decomposes on heating emitting oxides of carbon and noxious smoke.

HAZARDOUS REACTIONS:

Will not occur.

11. TOXICOLOGICAL INFORMATION

No adverse health effects are expected, if the product is handled in accordance with this Material Safety Data Sheet and the product label. Symptoms and effects that may arise if the product is mishandled and overexposure occurs are:

ACUTE HEALTH EFFECTS:

Swallowed:

May cause irritation to mouth, throat and stomach with effects including pains in the stomach, which may lead to nausea, vomiting and diarrhoea.

Eye:

Will cause irritation to the eyes, with effects including: tearing, pain, stinging and blurred vision.

Skin:

Will cause irritation to the skin, with effects including: Redness, itchiness, and drying/defatting.

Inhaled:

Mists or vapours may cause irritation to the respiratory system.

Chronic:

Prolonged or repeated skin contact may lead to dermatitis. Prolonged contact may cause severe eye irritation and some form of permanent eye damage may occur. Prolonged or repeated contact with this substance will cause sensitisation by skin contact. Vapours may cause drowsiness and dizziness.

Isopropanol:

Inhalation LC50(rat): 16,000 ppm/8H

Oral LD50(rat): 5,045 mg/kg

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11. TOXICOLOGICAL INFORMATION (Continued)

d-LIMONENE:

Oral LD50(rat): 4,400 mg/kg

Dermal LD50(rabbit): > 5,000 mg/kg

The literature and the European Union both indicate that prolonged or repeated exposure to the skin with d-Limonene and products that contain this ingredient, will lead to sensitisation of the skin, indicating that some individuals may experience skin allergies or rashes that upon consequent re-exposure even at very dilute concentrations of the product will re-activate these symptoms.

12. ECOLOGICAL INFORMATION

There is no ecotoxicological information available for this product, however, for the following components:

Isopropanol:

LC50 96HR (Fish): >100 mg/l

13. DISPOSAL CONSIDERATIONS

Refer to appropriate authority in your State. Dispose of material through a licensed waste contractor. Advise flammable nature..

14. TRANSPORT INFORMATION

Road Transport

UN Number: 1993

Proper Shipping Name: FLAMMABLE LIQUID, N.O.S.(Contains ISOPROPANOL and d-LIMONENE)

Dangerous Goods Class: 3

Packing Group: III

Label: Irritant (Xi), Flammable

Air Transport

UN Number: 1993

Proper Shipping Name: FLAMMABLE LIQUID, N.O.S.(Contains ISOPROPANOL and d-LIMONENE)

Dangerous Goods Class: 3

Packing Group: III

Label: Irritant (Xi), Flammable

Sea Transport

UN Number: 1993

Proper Shipping Name: FLAMMABLE LIQUID, N.O.S.(Contains ISOPROPANOL and d-LIMONENE)

Dangerous Goods Class: 3

Packing Group: III

Label: Irritant (Xi), Flammable

15. REGULATORY INFORMATION

Poison Schedule: None allocated [Aust]

Inventory Status:

<i>Inventory</i>	<i>Status</i>
Australia (AICS)	Y
United States (TSCA)	Y
Europe (EINECS/ELINCS)	Y

Y = all ingredients are on the inventory.

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16. OTHER INFORMATION

Date of Preparation:

Issue date: October 10, 2005

Supersedes: December 25, 2001

Reasons for Update:

1. Alignment with the 2nd Edition of National Code of Practice for the Preparation of Material Safety Data Sheets [NOHSC:2001(2003)].
2. Changes and /or addition made to all sections.

Key Legend Information:

NOHSC - National Occupational Health & Safety Commission {Formerly Worksafe}[Aust]

ASCC - Australian Safety and Compensation Council [Aust]

SUSDP - Standard for the Uniform Scheduling of Drugs and Poisons [Aust]

TWA - Time Weighted Average [Int]

STEL - Short Term Exposure Limit [Int]

AICS - Australian Inventory of Chemical Substances

Dangerous Goods - Initial Emergency Response Guide (SAA/SNZ HB76:1997) [Aust]

EPA - Environmental Protection Agency [Int]

NIOSH - National Institute for Occupational Safety and Health [US]

TSCA - Toxic Substances Control Act [US]

OSHA - Occupational Safety and Health Administration [US]

AS/NZS 1715 - Selection, use and maintenance of respiratory protective devices. [Aust/NZ]

AS/NZS 1716 - Respiratory protective devices. [Aust/NZ]

Hazchem Code - Fire fighters designation [Aust]

IATA - International Aviation Transport Authority [Int]

ICAO - International Civil Aviation Organization [Int]

IMO - International Maritime Organisation. [Int]

IMDG - International Maritime Dangerous Goods [Int]

United Nations Recommendations for the Transport of Dangerous Goods and Globally Harmonized System for the classification and labelling of Chemicals. [Int]

EINECS - European Inventory of Existing Commercial Chemical Substances. [Int]

ELINCS - European List of Notified Chemical Substances. [Int]

EU - European Union [Int]

EU Directives: The classification criteria used, are adopted from the European Community's (EC) legislation for classifying dangerous substances. The criteria are taken from:

EC Council Directive 67/548/EEC

EC Council Directive 1999/45/EC

[Aust/NZ] = Australian New Zealand

[Int] = International

[US] = United States of America

Principal References:

Information supplied by manufacturer, reference sources including the public domain.

Disclaimer

This MSDS summarises our best knowledge of the health and safety hazard information available on the product and the measures to be used to handle and use the product safely. Each user should read this MSDS and consider the information in connection with the way the product is intended to be handled or used. Responsibilities of the supplier associated with this product are outlined in our standard terms and conditions, a copy of which is sent to customers and is available on request.

END OF MSDS