1. IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

**Product Name:** LOVELAND PRODUCTS FITNESS FUNGICIDE

**Other Means of Identification:** Mixture

**Recommended Use of the Chemical and Restriction on Use:** Agricultural fungicide

**Details of Manufacturer or Importer:**
Landmark Operations Limited
Suite 3, Level 1, Building B
11 Talavera Road
Macquarie Park NSW 2113

**Phone Number:** 02 9889 5400

**Emergency telephone number:** National Poison Information Centre: 13 11 26

2. HAZARDS IDENTIFICATION

**Hazardous Nature:**
Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.
Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

- **health hazard**
  - Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

- **environment**
  - Aquatic Acute 1 H400 Very toxic to aquatic life.
  - Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

- **Acute Tox. (Oral) 4 H302 Harmful if swallowed.
  - Skin Sens. 1 H317 May cause an allergic skin reaction.
  - Flam. Liq. 4 H227 Combustible liquid.

**Signal Word** Danger

**Hazard Statements**
H227 Combustible liquid.
H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H304 May be fatal if swallowed and enters airways.
H410 Very toxic to aquatic life with long lasting effects.

**Precautionary Statements**
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P273 Avoid release to the environment.
P264 Wash hands thoroughly after handling.

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P270  Do not eat, drink or smoke when using this product.
P272  Contaminated work clothing should not be allowed out of the workplace.
P301+P310  IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P321  Specific treatment (see on this label).
P333+P313  If skin irritation or rash occurs: Get medical advice/attention.
P330  Rinse mouth.
P331  Do NOT induce vomiting.
P370+P378  In case of fire: Use for extinction: CO2, powder or water spray.
P302+P352  IF ON SKIN: Wash with plenty of water.
P362+P364  Take off contaminated clothing and wash it before reuse.
P405  Store locked up.
P403+P235  Store in a well-ventilated place. Keep cool.
P501  Dispose of contents/container in accordance with local/regional/national regulations.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Characterization: Mixtures
Description: Mixture of substances listed below with nonhazardous additions.

Hazardous Components:

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Hazard</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>64742-94-5 Solvent naphtha (petroleum), heavy arom.</td>
<td>Asp. Tox. 1, H304</td>
<td>45.3%</td>
</tr>
<tr>
<td>60207-90-1 propiconazole</td>
<td>Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. (Oral) 4, H302; Skin Sens. 1, H317</td>
<td>43.5%</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

Inhalation: If inhaled, remove to fresh air. Seek medical attention if breathing problems develop.

Skin Contact:
In case of skin irritation, immediately remove contaminated clothing and wash affected areas with water and soap for 5 minutes. Seek medical attention if symptoms persist.

Eye Contact:
In case of eye irritation, hold eyelids open and rinse with water for 15 minutes. Seek immediate medical attention.

Ingestion:
If swallowed, do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Do not give anything by mouth to an unconscious person. Seek immediate medical attention.

Symptoms Caused by Exposure:
Skin Contact: May cause an allergic skin reaction. May cause CNS depression on contact with skin.
Ingestion: Harmful if swallowed. May be fatal if swallowed and enters airways.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water fog, foam, dry chemical or carbon dioxide.

Specific Hazards Arising from the Chemical:
Hazardous combustion products include oxides of carbon, nitrogen, nitrogen oxides, other nitrogen compounds, hydrogen cyanide, smoke and water.
Combustible Liquid Class 1.

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6. ACCIDENTAL RELEASE MEASURES

Special Protective Equipment and Precautions for Fire Fighters:
When fighting a major fire wear self-contained breathing apparatus and protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:
Wear an approved respiratory protection and protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation. Extinguish all sources of ignition. Avoid sparks and open flames. No smoking.

Environmental Precautions:
In the event of a major spill, prevent spillage from entering drains or water courses.

Methods and Materials for Containment and Cleaning Up:
Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material. Collect the spilled material and place into a suitable container for disposal. Wash area after spills.

7. HANDLING AND STORAGE

Precautions for Safe Handling:
Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Use only outdoors or in a well-ventilated area.
Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

Conditions for Safe Storage:
Store in a cool, dry and well ventilated area. Keep in original container tightly closed when not in use. Protect from heat, sparks, open flames, hot surfaces and direct sunlight. Keep away from strong oxidising agents.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Standards:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Engineering Controls: Ensure adequate ventilation of the working area.

Respiratory Protection:
Use an approved vapour respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:
PVC or rubber gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information. When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.
Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

Eye and Face Protection:
Eye and face protectors for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.
9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid
Form: Liquid
Colour: Clear yellow-gold
Odour: Non-specific hydrocarbon/petrol odour
Odour Threshold: No information available
pH-Value at 25 °C: 6.2 (1 % solution)
Melting point/Melting range: No information available
Initial Boiling Point/Boiling Range: No information available
Flash Point: >64.5 °C
Flammability: Combustible Liquid Class 1
Auto-ignition Temperature: No information available
Decomposition Temperature: No information available
Explosion Limits: No information available
  Lower: No information available
  Upper: No information available
Vapour Pressure: No information available
Relative Density: 1.049
Vapour Density: No information available
Evaporation Rate: No information available
Solubility in Water: Emulsifies into water.
Partition Coefficient (n-octanol/water): No information available

10. STABILITY AND REACTIVITY

Possibility of Hazardous Reactions: Hazardous polymerisation will not occur.
Chemical Stability: Stable at ambient temperature and under normal conditions of use.
Conditions to Avoid: Heat, sparks, open flames, hot surfaces and direct sunlight.
Incompatible Materials: Strong oxidising agents.
Hazardous Decomposition Products:
Oxides of carbon, nitrogen, nitrogen oxides, other nitrogen compounds, hydrogen cyanide, smoke and water.

11. TOXICOLOGICAL INFORMATION

Toxicity:
LD₅₀/LC₅₀ Values Relevant for Classification:
For the product:
LD₅₀ (Oral) 550 mg/kg (female rat)
LD₅₀ (Oral) >5050 mg/kg (rat)
LC₅₀/4 h (Inhalation) >2.07 mg/L (rat)

Acute Health Effects
Inhalation: No adverse health effects expected.
Skin: May cause an allergic skin reaction. May cause CNS depression on contact with skin.
Eye: Not expected to be a hazard.
Ingestion: Harmful if swallowed. May be fatal if swallowed and enters airways.

Skin Corrosion / Irritation: Based on classification principles, the classification criteria are not met.
Serious Eye Damage / Irritation: Based on classification principles, the classification criteria are not met.
Respiratory or Skin Sensitisation: May cause an allergic skin reaction.
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Germ Cell Mutagenicity: Based on classification principles, the classification criteria are not met.
Carcinogenicity: This product does NOT contain any IARC listed chemicals.
Reproductive Toxicity: Based on classification principles, the classification criteria are not met.
Specific Target Organ Toxicity (STOT) - Single Exposure:
Based on classification principles, the classification criteria are not met.
Specific Target Organ Toxicity (STOT) - Repeated Exposure:
Based on classification principles, the classification criteria are not met.
Aspiration Hazard: May be fatal if swallowed and enters airways.
Chronic Health Effects: No information available
Existing Conditions Aggravated by Exposure: No information available

Additional toxicological information:
The Australian Acceptable Daily Intake (ADI) for propiconazole for a human is 0.04 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 4 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept. of Health and Ageing, Office of Chemical Safety, ‘ADI List’, June 2014).

12. ECOLOGICAL INFORMATION

Ecotoxicity:
Propiconazole is non toxic to bees.
Toxicity to birds:
LD50 2223 mg/kg (japanese quail)
LD50 >2825 mg/kg (bobwhite quail)
LD50 >2510 mg/kg (mallard)

Aquatic toxicity:
60207-90-1 propiconazole
EC50 4.8 mg/L (daphnia)
LC50 0.02 - 13.6 mg/L (algae)
5.1 mg/L (golden orfe)
5.3 mg/L (rainbow trout)
6.8 mg/L (carp)

Persistence and Degradability: No information available
Bioaccumulative Potential: No information available
Mobility in Soil: No information available
Other adverse effects: No information available

13. DISPOSAL CONSIDERATIONS

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.
Special Precautions for Landfill or Incineration:
Please consult your state Land Waste Management Authority for more information.

14. TRANSPORT INFORMATION

UN Number
ADG Not regulated
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IMDG, IATA
UN3082

Proper Shipping Name
ADG
Not regulated
IMDG
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (propiconazole), MARINE POLLUTANT
IATA
Environmentally hazardous substance, liquid, n.o.s. (propiconazole)

Dangerous Goods Class
ADG Class: Not regulated
IMDG Class: 9 Miscellaneous dangerous substances and articles.

Packing Group:
ADG
Not regulated
IMDG, IATA
III

Marine pollutant:
Yes
Symbol (fish and tree)

EMS Number:
F-A,S-F

Hazchem Code:
.3Z

Special Provisions:
179, 274, 331, 335, AU01

Limited Quantities:
5L

Packagings & IBCs - Packing Instruction:
P001, IBC03, LP01

Packagings & IBCs - Special Packing Provisions:
PP1

Portable Tanks & Bulk Containers - Instructions:
T4

Portable Tanks & Bulk Containers - Special Provisions:
TP1, TP29

15 . REGULATORY INFORMATION

Australian Inventory of Chemical Substances:
64742-94-5 Solvent naphtha (petroleum), heavy arom.
60207-90-1 propiconazole

Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:
Poisons Schedule: 6

16 . OTHER INFORMATION

Date of Preparation or Last Revision: 11.02.2016

Abbreviations and acronyms:
ADG: Australian Dangerous Goods
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC₅₀: Lethal concentration, 50 percent
LD₅₀: Lethal dose, 50 percent
IARC: International Agency for Research on Cancer
STEL: Short Term Exposure Limit
TWA: Time Weighted Average
NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)
Flam. Liq. 4: Flammable liquids, Hazard Category 4
Acute Tox. (Oral) 4: Acute toxicity, Hazard Category 4

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Product Name: LOVELAND PRODUCTS FITNESS FUNGICIDE

Skin Sens. 1: Skin sensitisation, Hazard Category 1
Asp. Tox. 1: Aspiration hazard, Hazard Category 1
Aquatic Acute 1: Hazardous to the aquatic environment, short-term (Acute), Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment, long-term (Chronic), Category 1

Disclaimer
This SDS is prepared in accord with the Safe Work Australia document “Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - December 2011”

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