



SHOE CARE PRODUCTS

Material Safety Data Sheet

NON-Hazardous Substance, Dangerous Goods

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: **Joseph Lyddy N-Dem**

Recommended use: Insecticidal lotion for use on horses and dogs.

Supplier: Waproo Pty Ltd
ABN: 80 004 520 254
Street Address: 315 Canterbury Road
Canterbury VIC 3126
Australia
Telephone: + 613 9836-0277
Facsimile: + 613 9830-1432

Emergency telephone number: **+613 9836 0277 (8am – 5pm, Monday to Friday)**
0417-051-323 (24 hours)

2. HAZARDS IDENTIFICATION

Based on available information, this material is not classified as hazardous according to criteria of NOHSC Australia.

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail.

Class: 3 Flammable Liquid

Poisons Schedule (Aust): S5

This material is a Scheduled Poison S5 and must be stored, maintained and used in accordance with the relevant regulations.

3. COMPOSITION INFORMATION

CHEMICAL	ENTITY CAS NO.	PROPORTION
Ethanol	64-17-5	>60%
Isopropanol	67-63-0	<10%
Methanol	67-56-1	<10%
Di-N-diethyl-toluamide	134-62-3	<10%
Piperonyl butoxide	-	<2%
Pyrethrum	8003-34-7	<1%
Non hazardous ingredients	-	10-30%
		100%

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4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 03 474 7000).

Inhalation: Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If breathing laboured and patient cyanotic (blue), ensure airways are clear and have a qualified person give oxygen through a facemask. If breathing has stopped apply artificial respiration at once. In the event of cardiac arrest, apply external cardiac massage. Seek immediate medical advice.

Skin contact: For gross contamination, immediately drench with water and remove clothing. Continue to flush skin and hair with plenty of water. For skin burns, cover with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters. If swelling, redness, blistering, or irritation occurs seek medical assistance.

Eye contact: If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a Doctor; or for at least 15 minutes and transport to Doctor or Hospital.

Ingestion:

Immediately rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek immediate medical advice.

Notes to physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Specific hazards: Flammable liquid. May form flammable vapour mixtures with air. Vapour may travel a considerable distance to source of ignition and flash back. Avoid all ignition sources. All potential sources of ignition (open flames, pilot lights, furnaces, spark producing switches and electrical equipment etc) must be eliminated both in and near the work area. Do NOT smoke.

Fire fighting further advice: If safe to do so, remove containers from path of fire. Keep containers cool with water spray. On burning may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

Hazchem Code: 2[Y]

Suitable extinguishing media: If material is involved in a fire use water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours. Wipe up with absorbent (clean rag or paper towels). Allow absorbent to dry before disposing with normal household garbage.

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LARGE SPILLS

Shut off all possible sources of ignition. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Use a spark-free shovel. Collect and seal in properly labeled containers or drums for disposal.

Dangerous Goods – Initial Emergency Response Guide No: 14

7. HANDLING AND STORAGE

Handling: Avoid skin and eye contact and inhalation of vapour, mist or aerosols.

Storage: Store in a cool, dry, well ventilated place and out of direct sunlight. Store away from incompatible materials described in Section 10. Store away from sources of heat or ignition. Keep containers closed when not in use - check regularly for leaks.

This material is classified as a Dangerous Good Class 3 Flammable Liquid as per the criteria of the Australian Dangerous Goods Code and must be stored in accordance with the relevant regulations.

This material is a Scheduled Poison S5 and must be stored, maintained and used in accordance with the relevant regulations.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits:

No value assigned for this specific material by the National Occupational Health and Safety Commission (NOHSC Australia).

However for:

	TWA		STEL		CARCINOGEN CATEGORY	NOTICES
	ppm	mg/m3	ppm	mg/m3		
Ethyl alcohol	1,000	1,880	-	-	-	-
Isopropyl alcohol	400	983	500	1,230	-	-
Methyl alcohol	200	262	250	628	-	Sk

As published by the National Occupational Health & Safety Commission (NOHSC Australia).

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

STEL (Short Term Exposure Limit) - the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

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Biological Limit Values: As per the "National Model Regulations for the Control of Workplace Hazardous Substances [NOHSC: 1005 (1994)]" the ingredients in this material do not have a Biological Limit Allocated.

Engineering measures: Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use with local exhaust ventilation or while wearing appropriate respirator. Vapour heavier than air - prevent concentration in hollows or sumps. DO NOT enter confined spaces where vapour may have collected. Keep containers closed when not in use.

Personal protection equipment: OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES, RESPIRATOR.

Wear overalls, chemical goggles and impervious gloves. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from neoprene or nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form / Colour / Odour: Amber liquid

Solubility:	Miscible with water.
Specific Gravity (20 °C):	N Av
Relative Vapour Density (air=1):	N Av
Vapour Pressure (20 °C):	N Av
Flash Point (°C):	13*
Flammability Limits (%):	3.3 to 19*
Autoignition Temperature (°C):	365*
Melting Point/Range (°C):	-112.3*
Boiling Point/Range (°C):	78.3*
pH:	7.0

* values for ethanol

(Typical values only - consult specification sheet)

N Av = Not available

N App = Not applicable

10. STABILITY AND REACTIVITY

Chemical stability: No information available.

Conditions to avoid: No information available.

Incompatible Materials: Oxidising agents, nitric acid, sulphuric acid.

Hazardous decomposition products: No information available.

Hazardous reactions: Aluminium containers should be avoided as aluminium alcoholates may be formed under certain conditions.

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11. TOXICOLOGICAL INFORMATION

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

Acute Effects

Inhalation: Material may be irritant to mucous membranes and respiratory tract. Inhalation of vapour can result in headaches, dizziness and possible nausea. Inhalation of high concentrations can produce central nervous system depression, which can lead to loss of co-ordination, impaired judgement and if exposure is prolonged, unconsciousness. Inhalation of mists or aerosols may produce respiratory irritation.

Skin contact: Contact with skin may result in irritation. Will have a degreasing action on the skin. Repeated or prolonged skin contact may lead to irritant contact dermatitis. A component of this material (methanol) can be absorbed through the skin with resultant toxic effects.

Eye contact: May be an eye irritant.

Ingestion: Swallowing can result in nausea, vomiting, dizziness, fatigue, headache and central nervous system depression. If the victim is uncoordinated there is greater likelihood of vomit entering the lungs and causing subsequent complications.

Long Term Effects: No information available for product.

Acute toxicity / Chronic toxicity

No LD50 data available for the product. However, for the constituent:

Ethanol

Oral LD50 (rat):	7060 mg/kg
Inhalation LC50 (rat):	20,000 ppm/10 hrs
Estimated fatal dose (human):	300-400 mL of pure ethanol
EYES(Rabbit):	Moderate irritant
SKIN(Rabbit):	Mild irritant

A study of the effects of ethanol inhalation in humans, found that between 5,000-10,000 ppm subjects experienced coughing and smarting of the eyes and nose, with the symptoms disappearing within minutes.

People exposed at 15,000 ppm experienced continuous lacrimation and coughing. Irritation of the eyes and respiratory tract were not noted at concentrations below 5,000 ppm.

There is no clear evidence that ethanol is carcinogenic to laboratory animals; it is, however a tumour promoter. Ethanol is typically inactive in genotoxic assays, but on some occasions, a weak response has been noted.

Oral exposure to ethanol produces malformations and developmental toxicity in rats and mice at maternally toxic doses. No developmental effects were observed in rats from inhalation at doses up to 20,000 ppm.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

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Ecotoxicity:

Ethanol
LC50 (rainbow trout)(24 hr)(flow through): 11,200 mg/L
LC0 (bluegill sunfish)(96hr)(static): >13,500 mg/L
n-Octanol/Water Partition Coefficient: -0.3

Persistence and degradability:

Ethanol has a low potential for bioaccumulation and is substantially biodegradable in water.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Refer to State/Territory Land Waste Management Authority. Advise flammable nature.

14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail.

UN No: 1170
Dangerous Goods Class: 3
Packing Group: III
Hazchem Code: 2[Y]
Emergency Response Guide No: 14

Proper Shipping Name: ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

Segregation Dangerous Goods: Not to be loaded with explosives (Class 1), flammable gases (Class 2.1), if both are in bulk, toxic gases (Class 2.3), spontaneously combustible substances (Class 4.2), oxidising agents (Class 5.1), organic peroxides (Class 5.2) or radioactive substances (Class 7), however exemptions may apply.

MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

UN No: 1170
Dangerous Goods Class: 3
Packing Group: III

Proper Shipping Name: ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

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UN No: 1170
Dangerous Goods Class: 3
Packing Group: III

Proper Shipping Name: ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

15. REGULATORY INFORMATION

Poisons Schedule (Aust): S5

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

Literary reference

This Material Safety Data Sheet has been prepared by Chemical Data Services Pty Ltd on behalf of its client.

For further information about this product;

Contact: Les Foeldes (Technical Manager)
Telephone: +613 9836-0277

Reason(s) For Issue: 5 Yearly Revision

Material Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

This MSDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since Waproo Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.