



SAFETY DATA SHEET OF DEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name	Diethyltoluamide (DEET)
Supplier	New Australia Agricultural Development Company Pty Limited
Address	Rear 150-154 Parramatta Rd, Auburn, NSW 2144 Australia
Telephone	+61 2 9188 5752, 0425328311
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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Physical hazards	Not Classified
Health hazards	Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Irrit. 2A - H319
Environmental hazards	Aquatic Chronic 3 - H412

Hazard pictograms



Signal word	WARNING
Hazard statements	H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	P264 Wash contaminated skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P321 Specific treatment (see medical advice on this label). P330 Rinse mouth. P332+P313 If skin irritation occurs: Get medical advice/ attention. P337+P313 If eye irritation persists: Get medical advice/ attention.



P362+P364 Take off contaminated clothing and wash before reuse.
P501 Dispose of contents/ container in accordance with national regulations.

Other Hazards

This product does not contain any substances classified as PBT (persistent, bioaccumulative and toxic) or vPvB (very persistent and very bioaccumulative)

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Concentration
Diethyltoluamide	134-62-3	99.0%
Other ingredients		1.0%

4. FIRST AID MEASURES

Contact Poison Control Center immediately if necessary.

Emergency and first aid procedure.

Inhalation: Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if symptoms are severe or persist

Skin contact: Flush skin immediately with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.

Eye contact: Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Ingestion: Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. But never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Water may be ineffective. Material is lighter than water and a fire may be spread by the use of water.

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

6. Spill and Leak Procedures

Personal protection: wear respirator, rubber gloves, safety goggles and protective clothing.

Environmental protection: Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment.

Methods of cleaning up: Absorb spill on sand or vermiculite and place in closed containers for disposal.

7. HANDLING AND STORAGE



Handling:	Wear chemical safety goggles and rubber gloves. Wash thoroughly after handling. Avoid breathing dust, vapor, mist, or gas. Use only in a well-ventilated area. Do not ingest or inhale. Avoid contact with skin and eyes. Wash contaminated clothing before reuse.
Storage:	Keep container tightly closed and store in a cool, dry, well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure and engineering Controls: Manufacturer prepared the safety data sheet in the workshop and use local exhaust ventilation. Regular inspections by staff to ensure work safety

Respiratory Protection:

Eye Protection:	Wear chemical safety goggles to avoid eyes contact
Skin Protection:	Wear rubber groves, pant and jack to prevent all skin exposure.
Clothing:	Wear appropriate protective clothing to prevent skin exposure, and wash contaminated clothing before reuse.
Respirators:	DO NOT breathe vapor. Keep tightly closed and place in a cool dry area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Phase:	liquid
Color:	light yellow to colorless liquid
Boiling Range:	288~292°C
Flash point:	>230°C
Density:	0.998g/ml (20°C)
Vapor pressure:	< 0.01 MM @ 25°C
Solubility in water:	Insoluble
Decomposition Temperature:	Not available

10. STABILITY AND REACTIVITY

Stable under normal conditions.

Materials to avoid: Alkalis, strong oxidizing agents, strong acids, strong bases, strong reducing agents.

Hazard decomposition

products: Nitrogen oxides, carbonmonoxide, carbon dioxide, irritating, toxic fumes and gases.

11. TOXICOLOGICAL INFORMATION

Draize test, rabbit, eye: 10 mg Moderate;

Draize test, rabbit, skin: 500 mg Moderate;



Acute toxicity Inhalation, rat: LC₅₀ = 5950 mg/m³;

Acute toxicity Oral, mouse: LD₅₀ = 1170 mg/kg;

Acute toxicity Oral, rabbit: LD₅₀ = 1584 mg/kg;

Acute toxicity Oral, rat: LD₅₀ = 1950 mg/kg;

Skin, rabbit: LD₅₀ = 3180 uL/kg;

Skin, rat: LD₅₀ = 5 gm/kg;<BR.

Carcinogenicity: CAS# 134-62-3: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Epidemiology: No information available.

Teratogenicity: No information available.

Reproductive Effects: Based on available data the classification criteria are not met.

Neurotoxicity: No information available.

12. ECOLOGICAL AND ECOTOXICOLOGICAL INFORMATION

Eco-toxicity: N/A

Environmental: Anaerobic effects: Decomposition can be effected by bio-degradation under anaerobic conditions.

Physical: N/A

Other: Estimated Koc value = 300. This value indicates that DEET will show moderate mobility in soil and may absorb to suspended matter in the water column. Estimated BCF values = 0.8-2.4. These values suggest that this product should not readily bio-concentrate in aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Do not reuse product containers.

Diposal information: Should be disposed of according to the related local official regulations.

14. TRANSPORT INFORMATION

Not dangerous cargo. Keep dry. Keep separate from foodstuffs.

15. REGULATORY INFORMATION

Registered according to the Agricultural Chemicals Act.

16. OTHER INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. It does not purport to be all-inclusive and shall be used only as a guide. NAADCO shall not be held liable for any damage resulting from handling or from contact with the above product.

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