

### SECTION 1: Product identifier

#### 1.1. GHS Product identifier

Product name : DEET

#### 1.2. Other means of identification

No additional information available

#### 1.3. Recommended use of the chemical and restrictions on use

Recommended use : Repellent  
Restrictions on use : Not to be used for any purpose other than the one the product was designed for

#### 1.4. Details of manufacturer or importer

Sumitomo Chemical Australia Pty Ltd.  
Level 5  
51 Rawson Street  
Epping NSW 2121  
Australia  
T +61 (0)2 8752 9000  
[reception@sumitomo-chem.com.au](mailto:reception@sumitomo-chem.com.au) - [www.sumitomo-chem.com.au](http://www.sumitomo-chem.com.au)

#### 1.5. Emergency phone number

Emergency number : MEDICAL EMERGENCY  
Poisons Information Centre - Phone Australia 13 11 26, National Poison Center - Phone  
New Zealand 0800 764 766.  
  
TRANSPORT EMERGENCY  
Australia - 1800 033 111, New Zealand 0800 734 607

### SECTION 2: Hazard identification

#### 2.1. Classification of the hazardous chemical

##### Classification according to the model Work Health and Safety Regulations (WHS Regulations)

Acute toxicity (oral), Category 4	H302
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2A	H319
Hazardous to the aquatic environment – Chronic Hazard, Category 3	H412

#### 2.2. GHS Label elements, including precautionary statements

Hazard pictograms (GHS AU) :



Exclamation  
mark

Signal word (GHS AU) : Warning  
Contains : N,N-diethyl-m-toluamide (~ 100 %)  
Hazard statements (GHS AU) : H302 - Harmful if swallowed  
H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H412 - Harmful to aquatic life with long lasting effects  
Precautionary statements (GHS AU) : P264 - Wash hands, forearms and face thoroughly after handling.  
P273 - Avoid release to the environment.  
P280 - Wear eye protection, protective clothing, protective gloves.

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P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards which do not result in classification

No additional information available

## SECTION 3: Composition and information on ingredients

Name	CAS-No.	%
N,N-diethyl-m-toluamide	134-62-3	~ 100
Other substances (not contributing to the classification of this product)	-	Up to 100%

## SECTION 4: First aid measures

### 4.1. Description of necessary first-aid measures

First-aid measures general	: Call a poison center or a doctor if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Call a poison center or a doctor if you feel unwell.
Self protection of the first-aider	: First-aiders should pay attention to their own protection and use the recommended personal protective equipment (see section 8).

### 4.2. Symptoms caused by exposure

Symptoms/effects after inhalation	: None under normal conditions.
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Eye irritation.
Symptoms/effects after ingestion	: Harmful if swallowed.

### 4.3. Medical attention and special treatment

Other medical advice or treatment	: Treat symptomatically.
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## SECTION 5: Fire-fighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Do not use a heavy water stream.

### 5.2. Specific hazards arising from the chemical

Fire hazard	: No fire hazard.
Explosion hazard	: No direct explosion hazard.
General measures	: Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage. No action shall be taken without appropriate training or involving any personal risk.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

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### 5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. Exercise caution when fighting any chemical fire. Keep upwind.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage. No action shall be taken without appropriate training or involving any personal risk.

#### 6.1.1. For non-emergency personnel

- Protective equipment : Wear recommended personal protective equipment.
- Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

#### 6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
- Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and materials for containment and cleaning up

- For containment : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.
- Methods for cleaning up : Take up liquid spill into absorbent material.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.
- Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.
- Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Keep in a cool, well-ventilated place away from heat.
- Storage conditions : Keep cool. Protect from sunlight.
- Information on mixed storage : Store away from incompatible materials and products. Refer to the detailed list of incompatible materials in section 10 Stability/Reactivity.
- Storage area : Keep out of direct sunlight.
- Special rules on packaging : Position containers so that any labelling information is visible. Keep packaging closed when not in use. Check containers and packaging regularly for leaks and damage.
- Packaging materials : Always store product in container of same material as original container.

## SECTION 8: Exposure controls and personal protection

### 8.1. Control parameters - exposure standards

No additional information available

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### 8.2. Monitoring methods

Monitoring methods : Workplace exposure - General requirements for the performance of procedures for the measurement of chemical agents.

### 8.3. Engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

### 8.4. Individual protection measures, such as personal protective equipment (PPE)

Personal protective equipment : Personal protective equipment (PPE) must be suited to the nature of the work and any hazard associated with the work as identified by the risk assessment conducted.  
Avoid all unnecessary exposure. Wear recommended personal protective equipment.

Hand protection : Wear protective gloves

Eye protection : Wear eye protection: Chemical goggles or safety glasses

Skin and body protection : Wear protective clothing: Long sleeved protective clothing

Respiratory protection : Use a half mask to protect the face from liquid splashes

#### Personal protective equipment symbol(s)



Environmental exposure controls : Avoid release to the environment.

Other information : The following Australian and New Zealand Standards will provide general advice regarding safety clothing and equipment: Respiratory equipment: AS/NZS 1715, Protective Gloves: AS 2161, Industrial Clothing: AS2919, Industrial Eye Protection: AS1336 and AS/NZS 1337, Occupational Protective Footwear: AS/NZS2210. PPE compliant with the recommended standards should be selected.

## SECTION 9: Physical and chemical properties

Physical state : Liquid  
Appearance : Oily.  
Colour : clear  
Odour : Characteristic  
Odour threshold : No data available  
pH : No data available  
pH solution : No data available  
Relative evaporation rate (butylacetate=1) : No data available  
Melting point / Freezing point : Melting point: -43 °C  
Boiling point : No data available  
Flash point : 144 °C Tag closed cup  
Auto-ignition temperature : > 200 °C  
Flammability : No data available  
Vapour pressure : Vapour pressure: 0.0048 mm Hg at 32.4°C  
Relative density : No data available  
Density : Relative density: 0.998 at 20°C  
Solubility : Water: 11.2 mg/l at 25°C  
Partition coefficient n-octanol/water (Log Pow) : No data available  
Explosive properties : No data available  
Explosive limits : No data available  
Minimum ignition energy : No data available  
Fat solubility : No data available

## SECTION 10: Stability and reactivity

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.  
Chemical stability : Stable under normal conditions.  
Possibility of hazardous reactions : No dangerous reactions known under normal conditions of use.  
Conditions to avoid : None under recommended storage and handling conditions (see section 7).

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Incompatible materials : Strong acids. Strong bases. Strong oxidizers.  
Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11: Toxicological information

Acute toxicity (oral) : Harmful if swallowed.  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

DEET	
LD50 oral rat	1892 mg/kg
LD50 dermal rat	> 5000 mg/kg
LC50 Inhalation - Rat	> 2.02 mg/l

Skin corrosion/irritation : Causes skin irritation.  
Serious eye damage/irritation : Causes serious eye irritation.  
Respiratory or skin sensitization : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified  
Reproductive toxicity : Not classified  
STOT-single exposure : Not classified  
STOT-repeated exposure : Not classified  
Aspiration hazard : Not classified

### SECTION 12: Ecological information

According to the National Code of Practice for the Preparation of Material Safety Data Sheets, Environmental classification information is not mandatory. Information relevant for GHS classification is available on request

#### 12.1. Ecotoxicity

Ecology - general : Harmful to aquatic life with long lasting effects.  
Hazardous to the aquatic environment, short-term (acute) : Not classified  
Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

DEET	
LC50 - Fish [1]	71.25 ppm <i>Oncorhynchus mykiss</i> (Rainbow trout)
EC50 - Crustacea [1]	77 ppm <i>Daphnia magna</i>
LD50 dermal rat	> 5000 mg/kg
LD50 oral rat	1892 mg/kg

#### 12.2. Persistence and degradability

DEET	
Persistence and degradability	Not established.

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Ozone : Not classified

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Other adverse effects : No additional information available

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Fluorinated greenhouse gases	False
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## SECTION 13: Disposal considerations

Regional waste regulation : Disposal must be done according to official regulations.  
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Sewage disposal recommendations : Disposal must be done according to official regulations.  
Product/Packaging disposal recommendations : Disposal must be done according to official regulations.  
Additional information : Do not re-use empty containers.  
Ecological waste information : The waste of the product should be considered as hazardous as the product itself, with the likelihood of impacting the environment in the same way. Consider the handling and disposal of the waste as defined by the product itself.

## SECTION 14: Transport information

ADG	IMDG	IATA
<b>14.1. UN number</b>		
Not regulated for transport	Not regulated for transport	Not regulated for transport
<b>14.2. UN Proper Shipping Name</b>		
Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>		
Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>		
Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>		
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No

### 14.6. Special precautions for user

Specific storage requirement : No data available  
Shock sensitivity : No data available

### 14.7. Additional information

Other information : Insect repellent other than agricultural (DEET)

#### Transport by road and rail

No data available

#### Transport by sea

No data available

#### Air transport

No data available

### 14.8. Hazchem or Emergency Action Code

Hazchem Code : Not applicable

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according to the WHS Regulations

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations

##### **Australian Industrial Chemicals Introduction Scheme (AICIS)**

Australian Inventory of Industrial Chemicals (AICIS : All the chemicals contained in this product are listed introductions Inventory) status

##### **Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)**

Relevant Poisons Schedule number : Unscheduled

##### **Australian Pesticides and Veterinary Medicines Authority (APVMA)**

Not applicable

#### 15.2. International agreements

No additional information available

### SECTION 16: Other information

Data sources : Safe Work Australia - Code of Practice - Preparation of Safety Data Sheets for Hazardous Chemicals  
Safe Work Australia - Code of Practice - Labelling of Workplace Hazardous Chemicals  
Safe Work Australia - Workplace Exposure Standards for Airborne Contaminants  
Safe Work Australia - Hazardous Chemical Information System (HCIS)  
Australian Inventory of Industrial Chemicals (AICIS Inventory)  
Environmental Protection Authority - Hazardous Substances (Hazard Classification) Notice 2020  
Environmental Protection Authority - Hazardous Substances (Safety Data Sheets) Notice 2017  
Environmental Protection Authority - Hazardous Substances (Labelling) Notice 2017  
New Zealand - Chemical Classification and Information Database (CCID)  
New Zealand - Inventory of Chemicals (NZIoC)  
European Chemicals Agency (ECHA) - Annex VI (C&L Inventory)  
European Chemicals Agency (ECHA) - REACH Study Results  
European Chemicals Agency (ECHA) - REACH Registration Dossiers  
United Nations - Globally Harmonised System of Classification and Labelling of Chemicals (GHS)  
Uniform Scheduling of Medicines and Poisons (SUSMP)  
United Nations Recommendations on the Transport of Dangerous Goods (UNRTDG Model Regulation)  
Australian Dangerous Goods Code (ADG Code)  
International Air Transport Association Dangerous Goods Regulations (IATA DGR)  
International Maritime Dangerous Goods (IMDG Code).

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Safety Data Sheet (SDS), Australia

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.