

MATERIAL SAFETY DATA SHEET
DEET (N,N-DIETHYL-M-TOLUAMIDE)Substance key: 000000050938
Version : 1 - 2 / CDNRevision Date: 08/09/2008
Date of printing :05/05/2009**WHMIS controlled:** yes
Class: D 2B**Section 01 - Product Information**

Identification of the company:	Clariant Corporation 4000 Monroe Road Charlotte, NC, 28205 Telephone No.: +1 704 331 7000
	Information of the substance/preparation: ESHA Phone (514) 334-1117, Fax (514) 334-6232
	Emergency tel. number: +1 800-424-9300(CHEMTREC)

Trade name:	DEET (N,N-DIETHYL-M-TOLUAMIDE)
CAS number:	134-62-3
Chemical family:	N,N-Diethyl-3-methylbenzamide
Primary product use:	Techno-chemical industry. Insect repellent
Primary product use:	Insect repellent

Section 02 - Composition information on hazardous ingredients**Hazardous ingredients:**

Component	CAS number	Concentration
N,N-Diethyl-m-toluamide	134-62-3	60 - 100 %

Component toxicity information:

N,N-Diethyl-m-toluamide (134-62-3)

Acute oral toxicity: LD50 2,000 mg/kg (rat)**Section 03 - Hazards identification****Health effects of exposure:**

Significant exposure to this chemical may adversely affect people with chronic disease of the respiratory system, skin and/or eyes.

There have been a few isolated cases of adverse systemic effects associated with excessive exposure to deet. Most of these cases have involved long term, high dosage use of deet on children.

Listed carcinogen: IARC: NO NTP: NO OSHA: NO
Other: No

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Get victim to fresh air. Give artificial respiration or oxygen if breathing has stopped or is difficult. Get prompt medical attention. Do not give fluids if victim is unconscious.

After contact with skin:

Remove contaminated clothing and wash affected areas with soap and plenty of water for at least 15 minutes. If redness or skin irritation occurs, seek medical attention.

After contact with eyes:

Immediately wash the eyes with flowing water for at least 15 minutes. Insure proper irrigation by occasionally lifting upper and lower eyelids. Thereafter seek prompt medical attention.

After ingestion:

If ingested, do not induce vomiting. Get immediate medical assistance.

Advice to doctor / Treatment:

None known.

Section 05 - Fire fighting measures

Flashpoint:	> 285 °C
Lower explosion limit:	not tested.
Upper explosion limit:	not tested.
Self ignition:	Not applicable
Ignition temperature:	not tested.
Extinguishing media:	foam carbon dioxide dry powder water mist

Special fire fighting procedure:

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

Unusual fire and explosion hazards: Emits toxic and corrosive fumes under fire conditions.

Section 06 - Accidental release measures**Steps to be taken in case of spill or leak:**

Only trained personnel should be involved in spill operations. Wear self-contained breathing apparatus and complete impervious protective clothing. Ventilate area of spill. Remove all ignition sources. Contain spill and pump into proper containers using explosion-proof equipment. Small spills may be recovered using an inert non-combustible absorbent material (sand, vermiculite) and collected into suitable containers. Do not use combustible absorbent material such as sawdust or paper towels. Do not allow to enter sewers, storm drains, surface waters or the soil.

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Open and handle container with care.
Provide good ventilation of working area (local exhaust ventilation if necessary).

Further info on storage conditions:

Keep container tightly closed in a well-ventilated place

Section 08 - Exposure controls / personal protection

No level has been established by OSHA, NIOSH, ACGIH.

Respiratory protection:	Wear an approved respirator if vapours or mists are generated when handling or processing this product. Use appropriate filters. Do not exceed filters limitations.
Hand protection:	Butyl Rubber, PVC or Neoprene
Eye protection:	Wear chemical goggles and full face shield.
Other protective equipment:	Wear clothing suitable to avoid skin contact.
Advice on system design:	Use local exhaust ventilation.

Section 09 - Physical and chemical properties

Form:	Liquid
Color:	colourless
Odor:	characteristic
pH:	not tested.
Solubility in water:	immiscible
Soluble in ... :	fat not tested.
Density:	0.992 - 0.999 g/cm ³
Melting point :	not determined
Boiling point :	285 °C
Vapor pressure:	not tested.
Bulk density:	Not applicable
Relative vapor density:	not tested.
Partitioning coef. octanol/water:	2.26 Method: other (calculated)
Viscosity / (kinematic):	not tested.

Section 10 - Stability and reactivity

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Thermal decomposition:	not tested.
Chemical stability:	Stable.
Hazardous Polymerization:	Will not occur.
Hazardous decomposition products	No hazardous decomposition products known.

Section 11 - Toxicological information

Acute oral toxicity:	LD50 > 2,000 mg/kg (rat)
Acute inhalation toxicity:	LC50 5.95 mg/l (4 h, rat)
Acute dermal toxicity:	LD50 3,180 mg/kg (rabbit)
Skin irritation:	irritant (rabbit)
Eye irritation:	irritant (rabbit eye)

Section 12 - Ecological information

Fish toxicity:	LC50 110 mg/l (96 h, Pimelphales promelas)
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Remarks:

Do not allow to enter soil, waterways or waste water
Do not dispose of in the environment.

According to the Conventional Method of Directive 1999/45/EC, this product should not be classified as Dangerous for the Environment.

Section 13 - Disposal considerations**Waste disposal information:**

Wastes may be incinerated or landfilled after solidification in approved sites. Follow local regulations.

Section 14 - Transport information

TDG	not restricted
IATA	not restricted
IMDG	not restricted

Section 15 - Regulatory information**Registration status**

DSL:	yes
NDSL:	no

The product is excluded as biocide from DSL and is regulated under PCPA.

CEPA

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Listed as toxic substance: no**TSCA Status:**

All components of this product are listed on the TSCA Inventory. However, the primary use of this product is NOT subject to TSCA but rather to FIFRA and must comply with the FIFRA regulations.

FDA:

This product is not registered with the FDA.

Section 16 - Other information**WHMIS**

Significant exposure to this chemical may adversely affect people with chronic disease of the respiratory system, skin and/or eyes.

The information contained on this MSDS is to the best of our knowledge an accurate summary of the data available as of the date of preparation. Clariant (Canada) Inc. is not liable for the application or use of this information in situations beyond its control or outside the normal and expected use of its product. Clariant (Canada) Inc. assumes no responsibility for damage or injury from the use of the product described herein.