

Safety Data Sheet



UAB Saflora safety data sheet according to Regulation (EC) No. 1907/2006. 1907/2006 as amended from time to time.

Reviewed: 2024-08-28

Version: 1.0 EN

Product: N,N-diethyl-m-toluamide (DEET)

2024-08-28

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: N,N-diethyl-m-toluamide (DEET)

Product code: 1246

1.2. Relevant identified uses of the substance or mixture and uses recommended

Relevant identified uses: cosmetic ingredients

Uses advised against: product not intended for direct consumer use. This product can not be used directly in this form or concentration. Product for industrial use only.

1.3. Details of the supplier of the safety data sheet

Company: UAB Saflora

Legal address: Naugarduko g. 102, LT03160, Vilnius, Lithuania

Tel.: +37062959500

E-mail: info@sapolita.lt

1.4. Emergency telephone number

Poisoning and drug information center: : +37052362052 and +37068753378

Emergency number: 112

Supplier: : +37062959500

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 [CLP]

Acute toxicity Category: 4

Skin corrosion / irritation Category: 2

Eye irritation Category: 2

2.2. Label elements

Symbols



GHS07

Signal word: Warning

Hazard statements:

H302: Harmful if swallowed.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

Precautionary statements:

P210: Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

P233: Keep container tightly closed.

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

P264: Wash hands thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements due to reaction:

P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor

P302 + P352: IF ON SKIN: Wash with plenty of water with soap.

P362: Take off contaminated clothing and wash before reuse.

P330: Rinse mouth.

P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

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.

P243: In case of fire: Use dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂) to extinguish

Precautionary statements storage:

P403 + P235: Store in a well-ventilated place. Keep cool.

Precautionary statement disposal:

P501: - Dispose of contents/container to comply with local, state and international regulations.

2.3. Other hazards

No specific hazards known if stored and handled as prescribed / indicated.

SECTION 3: Composition/information on ingredients

Name: N,N-diethyl-m-toluamide (DEET)

INCI name: diethyl toluamide

CAS number: 134-62-3

EINECS number: 205-149-7

Molar mass: 191,27 g/mol

Active substance concentration: min 99,5%

Composition / formula: C₁₂H₁₇NO, N,N-Diethyl-3-methylbenzamide

SECTION 4: First aid measures

4.1. Description of first aid measures

Seek medical attention if adverse health effects occur.

In case of Inhalation:
unrelated

In case of skin contact:
After contact with skin, wash immediately with plenty of water.

In case of eyes contact:
Rinse immediately with plenty of running water (10 minutes) and seek medical advice if necessary.

In case of Ingestion:
Rinse mouth, consult a medical professional.

4.2. Most important symptoms and effects, both acute and delayed

Intensive use and proper handling are not expected to pose a risk.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

CO₂ or Dry chemical fire extinguisher, foam.

5.2. Special hazards arising from the substance or mixture

Do not inhale combustion gases. Burning produces heavy smoke.

5.3. Advice for firefighters

In case of fire do not breathe fumes.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.

Take precautionary measures against static discharges. Avoid all possible sources of ignition: heat, sparks, open flame.

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals.

7.2. Conditions for safe storage, including any incompatibilities

Suitable materials for containers: polyethylene, polypropylene, glass, PET.

Storage stability: Stable if stored and used under normal conditions, does not require special storage conditions.

Storage temperature: 12-25 °C

7.3. Specific end use(s)

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Derived No Effect Level (DNEL): None in particular

Predicted No Effect Concentration (PNEC): None in particular

8.2. Exposure controls

Eye/face protection: wear approved safety goggles with built in frame tested to EN166.

Skin protection: Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC.

Respiratory protection: should not be necessary with adequate ventilation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Forma: liquid

Odor: weak, specific

Color: colorless

Density g/cm³: 0,992-1,003

Refractive index n_{D20}: 1,513-1,532

Melting point °C: -34--32

Boiling point °C: 288

Flash point °C: 95

Acid value, mg KOH/g: max 0,3

Solubility: almost insoluble in H₂O (1 g/ 100 ml) and glycerine, soluble in ethanol, acetone, ether and benzene.

9.1. Other information

None in particular

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

The product is stable at temperatures < +100 °C and pH from 4 to 10.

10.3. Possibility of hazardous reactions

None under normal conditions

10.4. Conditions to avoid

Avoid exposure to strong acids, alkalis and oxidants.

10.5. Incompatible materials

Concentrated acids, alkalis and oxidising agents.

10.6. Hazardous decomposition products

This product does not decompose under normal conditions. Under fire conditions the product will produce a mixture of irritating fumes and smoke.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity:

Essentially non-toxic after a single ingestion.

LD50 (rat, oral) mg/kg: 1950

This product has not been tested. The claim was derived from substances / products with a similar structure or composition.

Skin corrosion/irritation:

LD50 (rabbit, in skin) mg/kg: 5000

Causes skin irritation.

Causes serious eye irritation.

Respiratory or skin sensitisation:

LD50 (mouse, inhalation) mg/kg: 5950

No evidence of skin sensitization. Not considered to be an inhalation hazard.

Germ cell mutagenicity:

The chemical structure does not suggest such an effect.

Carcinogenicity:

The chemical structure does not suggest such an effect.

Reproductive toxicity:

The chemical structure does not suggest such an effect.

STOT-single exposure:

Based on available data, the classification criteria are not met.

STOT-repeated exposure:

The information provided on the product does not indicate any specific target organ toxicity in case of repeated interactions.

Other toxicological information:

Product not tested. Toxicity reports were based on the properties of the individual components.

SECTION 12: Ecological information

12.1. Toxicity

The assessment of the aquatic toxicity of the product has not been performed. Toxicity has been reported based on the properties of the individual components.

Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - 110 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 75 ml/l - 48 h

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

Partition coefficient: n-octanol/water log Pow = 2,02. Method: OECD Test Guideline 107

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

The product does not contain any substance meeting the criteria for PBT (persistent / bioaccumulative / toxic) or vPvB (very persistent / very bioaccumulative).

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Must be handled in accordance with local regulations.

SECTION 14: Transport information

14.1. UN number

Not classified as dangerous in the meaning of transport regulations.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not regulated as a dangerous good.

14.4. Packing Group

III

14.5. Environmental hazards

Not applicable.

14.6. Special Precautions for User

No.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not evaluated.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulation/legislation specific for the substance or mixture

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC)

15.2. Chemical Safety Assessment

Advice on handling is provided in sections 7 and 8 of this safety data sheet.

SECTION 16: Other information

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular
This SDS has been compiled and is solely intended for this product.

UAB Saflora cannot however accept liability for any loss, injury and/or damage that results from use or misuse of the information herein.