

DEET Insect Repellent (10 - 30) Revision: Oct 13, 2014

M081

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SAFETY DATA SHEET

(according to (EC) 1907/2006)

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

1.1. Product identifier

Bug X 30 Insect Repellent Spray

Synonyms:

N,N-Diethyl-m-toluamide, DETA

1.2. Relevant identified uses of the substance or mixture and uses advised against

For Manufacturing of End-Use Insect Repellent Products Only

1.3. Details of the supplier of the safety data sheet

Manufacturer Information: CoreTex Products, Inc.

Non-Emergency Fax Number:

661-833-2753

1850 Sunnyside Court

Bakersfield, CA 93308

E-Mail Address:

skincare@coretexproducts.com

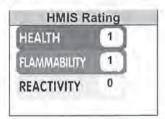
877-684-5774 Non-Emergency Phone Number:

1.4. Emergency telephone number

CHEMTEL

1-800-255-3924 - 24 HOURS

SECTION 2: Hazards identification



2.1. Classification of the substance or mixture

(According to Regulation (EC) No 1272/2008)

Environmental Chronic Category 3 Serious Eye Damage/Eye Irritation Category 2 Skin Corrosion/Irritation Category 2

Signal Word:

Warning

Hazard Precautions:

H412 - Harmful to aquatic life with long lasting effects.

H319 - Causes serious eye irritation.

H315 - Causes skin irritation.



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2.2. Label elements

Hazard Symbols (Pictogram):



Prevention Precautions:

P273 - Avoid release to the environment.

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

P264 - Wash hands thoroughly after handling.

First Aid Precautions:

P337+P313 - If eye irritation persists: Get medical advice/attention.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P362 - Take off contaminated clothing and wash before reuse.

P332+P313 - If skin irritation occurs: Get medical advice/attention.

P321 - Specific treatment (see supplemental information on this label).

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

Storage Precautions:

Not required.

Disposal Precautions:

P501 - Dispose of contents/container in accordance with local/regional/national/international regulation for hazardous wastes.

Single Exposure Target Organs:

Not applicable

Repeated Exposure Target Organs:

Not applicable

(According to Directive 67/548/EEC)

Symbol:

Xn, Xi, F

Risk Phrases:

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

R36/38: Irritating to eyes and skin.

Safety Phrases:

S2: Keep out of the reach of children.

S61: Avoid release to the environment. Refer to special instructions/safety data

sheet.

S7: Keep container tightly closed.

S16: Keep away from sources of ignition - No smoking.



Primary Route(s) of Exposure:

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2.3. Other hazards

Signs and Symptoms of Potential Overexposure: May be harmful if ingested in sufficient quantities. Non-irritating to intact skin; keep

away from mucous membranes and abraded skin. Contact with eyes causes irritation. High gas, vapor, or mist concentrations may be harmful if inhaled. This product does not present an immediate concern for emergency personnel.

Ingestion. Skin contact, Eye contact. Inhalation.

Medical Conditions Aggravated by Exposure: No data found

SECTION 3: Composition/information on ingredients

3.1. Substances or 3.2. Mixtures				•	
Ingredient	CAS Number	Concentration (%)	EINECS / ELINCS	EU Symbol	Risk Phrases
Water	7732-18-5	50 - 80	231-791-2	N/A	Not applicable
N,N-Diethyl-m-toluamide (DEET)	134-62-3	10 - 30	205-149-7	Xn, Xi	R22- R36/38- R52/53
Ethanol	64-17-5	8 - 12	200-578-6	F	R11
Other emulsifiers, emollients, preservatives and fragrances (present at	MULTIPLE	2 - 3	Not listed.	N/A	Not applicable
< 1% each)					
Emolient	TRADE SECRET	2-3	Not listed.	N/A	Not applicable
Lubricant	TRADE SECRET	2 - 3	Not listed.	N/A	Not applicable

NOTE: See Section 8 of this MSDS for exposure limit data for these ingredients. See Section 15 of this MSDS for trade secret information (where applicable).

See Section 16 of this MSDS for the full text of the R-phrases above.

SECTION 4: First aid measures

4.1. Description of first aid measures

Skin Contact: Keep away from mucous membranes and abraded skin

Eye Contact: Can cause moderate irritation. Immediately flush the eyes with plenty of water for at least 15 minutes.

Call a physician.

Inhalation: High gas vapor or mist concentrations may be harmful if inhaled

Ingestion: May be harmful if ingested.

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

Acute: May be harmful if ingested in sufficient quantities. Non-irritating to intact skin; keep away from mucous

membranes and abraded skin. Contact with eyes causes irritation. High gas, vapor, or mist concentrations may be harmful if inhaled. This product does not present an immediate concern for

emergency personnel.

Delayed Effects: None known.

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



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Thermal Exposure:

Not applicable.

Note to Physician:

No additional first aid information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Appropriate Extinguishing Media:

Foam Dry chemical Water spray Carbon dioxide

5.2. Special hazards arising from the

substance or mixture

Hazardous Products of Combustion:

As with other organic materials, combustion will produce carbon monoxide and carbon dioxide.

Potential for Dust Explosion:

not available

Special Flammability Hazards:

Not applicable.

5.3. Advice for firefighters

Basic Fire Fighting Guidance:

Wear self-contained breathing apparatus and protective clothing. Normal firefighting procedures

may be used.

Flammability Classification (OSHA):

Not applicable.

NFPA Rating



SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuation Procedures:

Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Special Instructions:

Remove all contaminated clothing to prevent further absorption. Decontaminate affected personnel using the first aid procedures in Section 4. Leather shoes that have been saturated must be

discarded.

6.2. Environmental precautions

Prevent releases to soils, drains, sewers, and waterways.

6.3. Methods and material for containment and cleaning up

Containment Techniques and

Contain spilled liquid with sand or vermiculite and place in chemical waste container Prevent runoff

Clean-up Procedures: from entering drains, sewers, and streams **Special Reporting Requirements:**

Not applicable.

6.4. Reference to other sections



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Refer to section 8 for information on selecting personal protective equipment. Refer to section 13 for information on spilled product, absorbent and clean up material disposal instructions.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for Unique Hazards:

Not applicable.

Practices to Minimize Risk:

Wear appropriate protective equipment when performing maintenance on contaminated equipment.

Wash hands thoroughly before eating or smoking after handling this material.

Special Handling Equipment:

Avoid contact with eyes, skin, and clothing.

Use with adequate ventilation. Wash thoroughly after handling.

7.2. Conditions for safe storage, including any

incompatibilities

Storage Precautions &

This product should be stored at ambient temperature in a dry, well-ventilated location. Keep

Recommendations:
Dangerous Incompatibility Reactions:

container closed when not in use. Incompatible with oxidizing materials.

Incompatibilities with Materials of

none known

Construction:

7.3. Specific end use(s)

If a chemical safety assessment has been completed an exposure scenario is attached as an annex to this Safety Data Sheet. Refer to this annex for the specific exposure scenario control parameters for uses identified in subsection 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits (United States):

OSHA PEL:

1000 ppm TWA; 1900 mg/m3

ACGIH TLV:

1000 ppm STEL

TWA

8.2. Exposure controls

Also see the annex to this SDS (if applicable) for specific exposure scenario controls.

Personal Protective Equipment:

Goggles or glasses with side shields. Clothing should be sufficient to minimize physical contact. The

use of a NIOSH-approved organic vapor respirator is recommended whenever this product is used in

a confined space or heated above ambient temperature.

Respirator Caution:Observe OSHA regulations for respirator use (29 CFR 1910.134). Air-purifying respirators must not be used in oxygen-deficient atmospheres.

All operations should be conducted in well-ventilated conditions. Local exhaust ventilation should be

provided.

Other Engineering Controls:

Ventilation:

All appropriate engineering controls should be used to minimize exposure potential. Use exhaust

ventilation to keep airborne concentrations below exposure limits.

Thermal Hazards: Not applicable.

Additive or Synergistic Effects:

None known.



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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance, State & Odor

lotion or cream White liquid

(ambient temperature): Molecular Formula:

mixture

Molecular Weight:

mixture

Vapor Pressure:

Not available.

Evaporation Rate:

< 1 (Butyl Acetate = 1)

Specific Gravity or Density:

1.000

Vapor Density (air = 1):

Not available.

Boiling Point:

291.7 °C @ 760 mm Hg

Freezing / Melting Point:

Not available. Not available.

Solubility in Water:

water emulsion

Octanol / Water Coefficient:

Not available.

pH:

5.0 - 7.5 @ 1% aqueous

Odor Threshold:

Fragrance added

Viscosity:

solution Not available.

Autoignition Temperature:

Not available.

Flash Point and Method:

> 201°F (> 94°C) (COC)

Flammable Limits:

Not available. (LEL) - Not

available. (UEL)

9.2. Other information

Not applicable.

SECTION 10: Stability and reactivity

Not classified as dangerously reactive. 10.1. Reactivity

10.2. Chemical stability

Stable

10.3. Possibility of hazardous

Will not occur.

reactions

10.4. Conditions to avoid

No data.

10.5. Incompatible materials

Incompatible with oxidizing materials.

10.6. Hazardous decomposition

Combustion will produce carbon monoxide, carbon dioxide and oxides of nitrogen. Incomplete

combustion yields carbon monoxide, carbon dioxide and dense smoke.

products

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute Oral LD50: Rat (female) 2000 - 5000 mg/ kg

Rat (male) > 5000 mg/ kg

Acute Dermal LD50:

Dermal LD50 (rat) > 5000 mg/ kg

Acute Inhalation LC50:

Inhalation LC50 (rat) > 2000 mg/m3



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Skin Irritation:

Moderately irritating to skin.

Skin Sensitization:

Negative skin sensitizer

Eye Irritation:

Slight to moderate erythema observed in eyes in contact with material over 20 minutes to 3 hours.

Target Organs:

No data available.

Carcinogenicity:

Mice and rabbits exposed dermally to 0.02 mL of 10, 50 and 100% concentrations of DEET twice a week

for 160 weeks had no significant differences in the number of tumors compared to controls.

Teratogenicity:

No data available.

Reproduction:

No data available.

Neurotoxicity:

No data available.

Mutagenicity:

No data available.

Additional Toxicity Information:

Skin irritation (rabbit): 50 mg; slightly irritating Eye Irritation (rabbit): 100 mg; moderately irritating

SECTION 12: Ecological information

12.1. Toxicity

Aquatic EC50 (48h) Daphnia = 56 - 100 ppm

Aquatic LC50 (96h) Oncorhynchus mykiss (rainbow trout) = 71.25 ppm Aquatic LC50 (96h) Pimephales promelas (fathead minnow) = 110 mg/L Aquatic LC50 Colinus virginianus (Northern bobwhite quail) = 1375 mg/kg

48 HR EC50 DAPHNIA MAGNA 2 MG/L [STATIC] 24 HR EC50 DAPHNIA MAGNA 10800 mg/L 48 HR LC50 DAPHNIA MAGNA 9268 - 14221 mg/L

96 HR LC50 PIMEPHALES PROMELAS > 100 MG/L [STATIC]

12.2. Persistence and

degradability

No data Not expected to bioaccumulate. Modeling suggests rapid degradation in the atmosphere;

biodegradation data suggests moderate rate of biodegradation.

SECTION 13: Disposal considerations

12.3. Bioaccumulative potential

No data No data

12.4. Mobility in soil

12.5. Results of PBT and vPvB

assessment

12.6. Other adverse effects

Not available.

Not predicted to exhibit significant toxicity to fish. Ecotoxicological data are for individual components of this mixture.

13.1. Waste treatment methods

US EPA Waste Number:

Not applicable

Waste Disposal:

Dispose of this material in accordance with standard practice for disposal of potentially hazardous materials as required by applicable international, national, regional, state or local laws. Do NOT dump



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into any sewers, on the ground, or into any body of water. For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used. Note that disposal regulations may also apply to empty containers and equipment rinsates.

SECTION 14: Transport information

14.1. UN number

Not applicable

14.2. UN proper shipping name

Chemicals, n.o.s. (DEET, ethanol)

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not available.

NA Emergency Guidebook Numbers:

IMDG EMS:

Not applicable

14.7. Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: Regulatory information

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

Not applicable

OSHA Hazards:

Health: Irritant (eye).

Physical:

Not applicable.

WHMIS Classification:

Class D, Division 2, Subdivision B: Irritant.

Class B, Division 3: Combustible Liquid.

Chemical Inventory Lists:

Status

TSCA: **EINECS:** Present 231-791-2

205-149-7

Canada(DSL/NDSL):

200-578-6 DSL

Japan:

(3)-1677; (3)-1421; (3)-1321

(2)-202

Korea:

KE-35400

KE-10492

KE-13217

Australia:

Present

New Zealand:

Present

China:

Philippines:

Present

Switzerland:

Present G-2482



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New Zealand GHS Classification: Not classified by this country.

Japan GHS Classification: Not classified by this country.

Korea (MOL) GHS Classification: Not classified by this country.

Australia GHS Classification: Not classified by this country.

Taiwan GHS Classification: Not classified by this country.

Indonesia GHS Classification: Not classified by this country.

SARA 313: Not applicable

Other Regulatory Listings: This product is regulated under the PMRA in Canada. It must be used for purposes consistent with its

labeling.

This product is regulated under the Federal Insecticide, Fungicide and Rodenticide Act. It must be used

for purposes consistent with its labeling.

15.2. Chemical safety assessment

Not applicable.

SECTION 16: Other information

Full text of R phrases in Section 3: R22: Harmful if swallowed.

R36/38: Irritating to eyes and skin.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

R11: Highly Flammable.



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Legend of abbreviations: ACGIH = American Conference on Governmental Industrial Hygienists.

CAS = Chemical Abstracts Service.

CERCLA = Comprehensive Environmental, Response, Compensation and Liability Act (1990).

CFR = Code of Federal Regulations.

DSL/NDSL = Domestic Substances List/Non-Domestic Substances List.

EC = European Community.

EEC = European Economic Community.

EINECS = European Inventory of Existing Commercial chemical Substances.

ELINCS = European List of Notified Chemical Substances.

EU = European Union.

GHS = Globally Harmonized System.

LC = Lethal concentration.

LD = Lethal dose.

MOL = Ministry of Labor.

NEMA = National Emergency Management Agency.

NFPA = National Fire Protection Association.

NIOSH = National Institute of Occupational Safety and Health.

NTP = National Toxicological Program.

OSHA = Occupational Safely and Health Administration

PEL = Permissible exposure limit.

RQ = Reportable quantity.

SARA = Superfund Amendments and Reauthorization Act of 1986.

TLV = Threshold limit value.

WHMIS = Workplace Hazardous Materials Information System.

Precautionary Statement: Please note that the information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers.

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Issued By: Regulatory Management Department

Revision Details: Revised Flashpoint and associated classfications.