

753146 Alberta Ltd. o/a Ultrasol Industries

10755 - 69 Avenue NW Edmonton, AB, T6H 2C9 CANADA
780-432-6535**PRODUCT: Doktor Doom TICK REPELLENT FOR CLOTHING PLUS 30% DEET - 220 g CODE: AE-100036****SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Identity..... Doktor Doom Tick Repellent for Clothing Plus 30% DEET - 220g (Reg.34725)
 Product Item Numbers.....! SKU 11103 PCP # 34725 AE-100036
 Manufactured For:753146 Alberta Ltd. o/a Ultrasol Industries
 10755 - 69 Avenue NW Edmonton, AB, T6H 2C9 CANADA
 780-432-6535

24 hour emergency telephone number.....! In Canada: Call CANUTEC (613) 996-6666

In The United States: Call CHEMTREC (800)424-9300.

Recommended Use..... Insect Repellent.

SECTION 02: HAZARDS IDENTIFICATION

Label Elements:

Signal Word..... DANGER.

Hazard Classification:

Physical Hazards..... Flammable Aerosols - Category 1. Gases Under Pressure - Liquefied Gas .
 Health Hazards..... Acute Toxicity Oral - Category 5. Skin Irritation - Category 2. Eye Irritation - Category 2.
 Specific Target Organ Toxicity, Single Exposure - Category 3.

Hazard Statement..... H222:Extremely flammable aerosol (1). H229:Pressurized container: may burst if heated (1). H280:Contains gas under pressure; may explode if heated (L). H303:May be harmful if swallowed. H315:Causes skin irritation. H319:Causes serious eye irritation. H336:May cause drowsiness or dizziness.

Environmental Hazards..... Not Classified.

Precautionary Statements:

Prevention..... P210:Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211:Do not spray on an open flame or other ignition source. P251:Do not pierce or burn, even after use. P264:Wash hand thoroughly after handling. P280:Wear protective gloves. P280:Wear eye protection/face protection. P261:Avoid breathing dust/fume/gas/mist/vapours/spray. P271:Use only outdoors or in a well-ventilated area.

Response..... P301+P312:IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
 P302+P352:IF ON SKIN: Wash with plenty of water. P332+P313:If skin irritation occurs: Get medical advice/attention. P362+P364:Take off contaminated clothing and wash it before reuse. P321:For specific treatment see section 4 on this SDS. 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. P304+P340:IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312:Call a POISON CENTER if you feel unwell.

Storage..... P410+P412:Protect from sunlight. Do not expose to temperatures exceeding 50°C /122°F.
 P403+P233:Store in a well-ventilated place. Keep container tightly closed. P405: Store locked up.

Disposal..... P501:Dispose of contents/container in accordance with local, regional, national, and/or international regulations.

Hazard(s) not otherwise classified (HNOC) None Known.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	WT. %
Ethyl alcohol	64-17-5	30-60
N,N-Diethyl-m-toluamide	134-62-3	30
Isobutane	75-28-5	10-30
Propane	74-98-6	1-5

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Inhalation.....	No specific effects have been reported. Supply fresh air if any irritations persists.
Eye Contact.....	Check for and remove contact lenses. Immediately flush eyes with water for a minimum of 15 minutes keeping eyelids open. Consult a doctor if any irritation occurs. Get medical attention if irritation persists.
Skin Contact.....	Remove contaminated clothing. Launder clothing before reuse. Wash thoroughly with soap and lukewarm water.
Ingestion.....	Not likely to be ingested. If occurs, do not give anything by mouth to an unconscious person. Do not induce vomiting, get medical attention. Obtain medical advice.
Most important symptoms/effects, acute .. and delayed	Direct eye contact may cause temporary eye irritation.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. In case of shortness of breath give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

SECTION 05: FIRE FIGHTING MEASURES

Suitable Extinguishing Media.....	Dry chemical powder. Carbon dioxide. Foam, water spray or fog.
Unsuitable Extinguishing Media.....	None in particular.
Specific Hazards Arising from the Chemical	Contents under pressure. Pressurized container may explode when exposed to heat or flame.
Special Protective Equipment and Precautions for Firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with water to prevent vapor pressure build up. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Remove undamaged containers from immediate hazard area if it is safe to do.
General Fire Hazards.....	Extremely flammable.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures	Ensure adequate ventilation; avoid formation of dust. Wear protective equipment and keep unprotected persons away. Use respiratory protection against the effects of dust.
Methods and Materials for Containment .. and Cleaning Up	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (see section 13). Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material.
Environmental Precautions.....	Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.

SECTION 07: HANDLING AND STORAGE

Precautions for Safe Handling.....	Wash thoroughly after handling . Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Avoid contact with eyes. Avoid breathing vapours or spray mists of this product. Contents under pressure. Use with adequate ventilation. Keep away from heat, sparks, and open flames.
Conditions for Safe Storage including any Incompatibilities	Store in a cool, dry, well-ventilated area away from incompatible substances. Do not store in direct sunlight. Do not handle or store near an open flame, heat or other sources of ignition. Store away from incompatible materials (see Section 10). Store a temperature between 5°C (41°F) and 50°C(122°F).

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	NIOSH REL
Ethyl alcohol	1000 ppm	1000 ppm	1000 ppm	Not available	1000 ppm
N,N-Diethyl-m-toluamide	Not available	Not available	Not available	Not available	Not available
Isobutane	Not available	1,000 ppm	Not available	Not available	Not available
Propane	Not available	Not available	1,000 ppm	Not available	Not available
Appropriate Engineering Controls.....	Local exhaust ventilation required to maintain the point of use below the Threshold Limit Value if unprotected personnel are involved. Ground all equipment and cylinders before use.				
Individual Protection Measures:					
Eye/Face Protection.....	Prevent eye contact, wear safety glasses in the event that eye contact is possible.				
Skin Protection.....	Not normally required.				
Respiratory Protection.....	Not required on a short-term basis or if exhaust ventilation is provided. Use approved NIOSH respirators for emergencies.				

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Thermal Hazards..... None Known.
 General Hygiene Considerations..... When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment prior to use.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Physical State..... Aerosol.
 Physical Appearance..... Clear mist.
 Odour..... Non-scented.
 Odour Threshold (ppm)..... Not available.
 Boiling Point (°C)..... 78.5. (Ethanol).
 Melting/Freezing Point (°C)..... -115. (Ethanol).
 Evaporation Rate (n-Butyl Acetate = 1)..... Not available.
 pH..... No data.
 Solubility in water..... Soluble in water.
 Vapour Pressure (psig)..... 40-60.
 Specific Gravity (Aerosol)..... 0.798-0.814.
 Specific Gravity (Liquid)..... 0.859-0.879.
 Auto Ignition Temperature (Propellant), °C..... 460. (Propellant).
 Flash Point (°C), Method..... -82.8. Open Cup. (Propellant).
 Flashback..... No.
 Lower Flammable Limit (% Vol)..... 1.8. (Propellant).
 Upper Flammable Limit (% Vol)..... 8.4. (Propellant).
 VOC Content..... No data.
 Viscosity..... 1.35 cp @ 20°C. (Ethanol).

SECTION 10: STABILITY AND REACTIVITY

Reactivity Product not reactive under normal conditions of use.
 Chemical Stability..... Stable at normal temperatures and pressures.
 Possibility of Hazardous Reactions..... Will not occur.
 Conditions to Avoid..... Avoid sources of heat and flame, and electrostatic charge.
 Incompatible Materials..... Avoid contacting with oxidizers.
 Hazardous Decomposition Products..... Thermal decomposition and burning may produce carbon monoxide and carbon dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Ethyl alcohol	31,623 ppm (Rat - 4hrs)	7,060 mg/kg (Oral - Rat) 20,000 mg/kg (Dermal - Rabbit)
N,N-Diethyl-m-toluamide	>2.02 mg/L (Rat - 4hrs)	1,892 mg/kg (Oral - Rat); >5,000 mg/kg (Dermal - Rat)
Isobutane	658 mg/L (Rat - 4hrs)	Not available
Propane	658 mg/L (Rat - 4hrs)	Not available
Information on Likely Routes of Exposure:		
Routes of entry - Inhalation.....	Yes.	
Routes of entry - Skin & Eye.....	Yes.	
Routes of entry - Ingestion.....	No.	
Routes of entry - Skin Absorption.....	No.	
Symptoms Related to the Physical,	Irritant effects.	
Chemical and Toxicological Characteristics		
Acute Toxicity.....	No known significant effects.	
Skin Corrosion/Irritation.....	Causes mild skin irritation. Prolonged contact may be more irritating.	
Serious Eye Damage/Eye Irritation.....	Direct contact with eyes causes temporary irritation.	
Respiratory or Skin Sensitization.....	Inhalation may cause respiratory tract irritation. May cause skin sensitization.	
Germ Cell Mutagenicity.....	No information is available, and no adverse effects are expected.	
Carcinogenicity.....	Not classified as carcinogenic by ACGIH, IARC, OSHA or NTP.	
Reproductive Toxicity.....	Contains no ingredient listed as toxic to reproduction.	
STOT - Single Exposure.....	Specific target organ toxicity single exposure Category 3. May cause respiratory irritation.	
STOT - Repeated Exposure.....	Not classified.	
Aspiration Hazard.....	No data available.	
Chronic Effects.....	No long term chronic effects are known or anticipated.	

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Ecotoxicity..... May be dangerous for the environment. No data is available on the product itself. Should not be released into the environment. This product contains the following substance which may also be hazardous for the environment: Ethyl alcohol (CAS#: 64-17-5): Toxicity to fish: LC50 14200 mg/L, 96 hrs; Toxicity to other aquatic invertebrates: 9300 mg/L, 48 hrs; Toxicity to algae: not available.

Persistence and degradability The product itself has not been tested.

Bioaccumulation Potential..... The product itself has not been tested.

Mobility in Soil..... The product itself has not been tested.

Other Adverse Effects..... None Known.

SECTION 13: DISPOSAL CONSIDERATIONS

Appropriate Disposal Methods..... Dispose in accordance with local, provincial and federal regulations.

SECTION 14: TRANSPORT INFORMATION

TDG (Canada- Road)..... UN1950, AEROSOLS, Class 2.1.

DOT (US-Road)..... UN1950, AEROSOLS, Class 2.1, LTD QTY, Consumer Commodity ORM-D.

IMDG (International- Marine)..... UN1950, AEROSOLS, Class 2.1.

IATA (International- Air)..... UN1950, AEROSOLS, Class 2.1, LTD QTY.

SECTION 15: REGULATORY INFORMATION

Canada Regulations:..... WHMIS Classification. A: Compressed gas.

US Regulations..... OSHA (29CFR 1910.1200). National Inventory TSCA : Cosmetic products are not regulated under TSCA.

California Proposition 65..... This product does not contain any chemical(s) known to the state of California to cause cancer or reproductivity toxicity.

SECTION 16: OTHER INFORMATION

Disclaimer..... This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all the information required by the CPR. . The information contained herein is based on data considered accurate. No guarantee or warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. The SDS provider assumes no responsibility for personal injury or property damage to vendors or users or third parties, caused by the material. Such vendors or users assume all risks with the use of the material.

Abbreviations..... ACGIH: American Conference of Governmental Industrial Hygienists; CAS: Chemical Abstract Service; NIOSH: National Institute for Occupational Safety and Health, OSHA: Occupational Safety and Health Administration- USA; TSCA: Toxic Substances Control Act 1976-USA; PEL: Permissible Exposure Limit; REL: Recommended Exposure Limit; TLV: Threshold Limit Value; VOC: Volatile Organic Content; WHMIS: Workplace Hazardous Materials Information System STOT: Specific Target Organ Toxicity.

Prepared by Regulatory Affairs

Latest Revision December 1, 2023