



MATERIAL SAFETY DATA SHEET

SAFETY DATA SHEET

Prepared according to 29CFR 1910.1200, Regulation (EC) No. 1272/2008 (GHS) and Canadian Controlled Products Act (CPR)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Ben's 30 Wilderness Formula, Eco-Spray
EPA Reg. No. 56575-11

MSDS Date: June 7, 2011

MSDS Revision No.: 1

USE: Insect Repellent

MANUFACTURER: Tender Corporation

ADDRESS: 106 Burndy Road
Littleton, NH 03561

INFORMATION CALLS: 800-258-4696

FAX PHONE: 603-444-6735

EMERGENCY PHONE: Veolia(spills):(800) 354-2382
Medical: Poison Control Center Information:(800) 258-4696

HMIS Hazard Rating

HEALTH	1
FLAMMABILITY	1
REACTIVITY	0
PERSONAL PROTECTION	X

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Clear, DEET odor, Non-flammable but combustible, Water soluble, Liquid

HAZARD CLASSIFICATION: Warning
GHS Label elements, including precautionary statements
Pictogram



Signal word: **WARNING**

Hazard statement(s)

H302	Harmful if swallowed
H319	Causes serious eye irritation
H315	Causes skin irritation
H412	Harmful to aquatic organisms and may cause long-term adverse effects in the aquatic environment

Precautionary statement(s)

P102	Keep out of the reach of children
P234	Keep in original container
P305+P351+P338	IF IN EYES; Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P301+P330+P331+P315	IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Get immediate medical advice/attention.

P273 Avoid release to the environment

ROUTES OF EXPOSURE: Dermal, oral

POTENTIAL HEALTH EFFECTS

INHALATION: May cause irritation to lungs

SKIN CONTACT: Do not use over cuts, wounds or irritated skin
Pre-existing skin disorders may be aggravated by exposure

EYE CONTACT: Prolonged contact may cause irritation, with redness, pain, tearing, blurred vision and conjunctivitis.

INGESTION: May be harmful if swallowed.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS



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Ingredient	Conc.(%)	CAS NO.	EC NO.	Classification
DEET (N,N-Diethyl-m-toluamide)	29 to 31	134-62-3	205-149-7	WHMIS D2B-Toxic EU-Xn;Xi; R22-36/38 R52-53
Water	> 30	7732-18-5	231-791-2	None
Dipropylene glycol Monomethyl Ether	<20	34590-94-8	252-104-2	WHMIS Class B3 combustible liquid
Propylene Glycol	<25	57-55-6	200-338-0	None

See Section 8 – "EXPOSURE CONTROLS/PERSONAL PROTECTION" for exposure guidelines

SECTION 4: FIRST AID MEASURES

- INHALATION:** Move victim to fresh air. Apply artificial respiration if indicated. Contact a physician if warranted.
- CONTACT WITH SKIN:** Take off contaminated clothing. Immediately wash gently and thoroughly with luke warm, gently flowing water and non-abrasive soap for 15-20 mins. If skin irritation or rash occurs, see a doctor. Thoroughly clean clothing before reuse or dispose of safely.
- CONTACT WITH EYES:** Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. If a contact lens is present, DO NOT delay flushing or attempt to remove the lens. Take care not to rinse contaminated water into the unaffected eye or onto the face. If irritation or pain persists, see a doctor.
- INGESTION:** Have victim rinse mouth with water. NEVER give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. DO NOT INDUCE VOMITING. Contact a physician if warranted.

SECTION 5: FIRE-FIGHTING MEASURES

FIRE AND EXPLOSIVE PROPERTIES: Non Flammable - This product is combustible but not flammable or explosive

Flash Point: >250° C

Flammable Limits: Not applicable

EXTINGUISHING MEDIA: Water spray
Carbon dioxide
Dry Chemical or foam

SPECIFIC HAZARDS: In case of fire, hazardous combustion gases may be formed:
Carbon monoxide (CO)
Carbon Dioxide (CO₂)
Nitrogen oxides (NO_x)

PROTECT EQUIPMENT FOR FIREFIGHTERS: Use self-contained breathing apparatus and full protective clothing

FURTHER INFORMATION: Fire residues and contaminated firefighting water must be disposed of in accordance with local regulations

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: For Large Spills; isolate the hazard area. Keep out unnecessary and unprotected personnel. Increase ventilation to area or move leaking container to a well-ventilated and secure area. Use the Personal Protective Equipment recommended in Section 8 of this MSDS. Review Section 7 (Handling) of this MSDS before proceeding with cleanup.

ENVIRONMENTAL PRECAUTIONS: Do not contaminate water by disposal of wastes

METHOD FOR CONTAINMENT AND CLEAN-UP:

Prevent product from entering drains and ventilation systems. Contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered labeled containers for disposal.

Large Spills: Dike spill product to prevent runoff. Recover contaminated water for appropriate disposal.

Report spills to local health, safety and environmental authorities, as required.

SECTION 7: HANDLING AND STORAGE



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HANDLING: Read entire label before using. Use strictly in accordance with label precautionary statements and directions.
Do not contaminate food or feed.

STORAGE: Keep product in its original container.
Keep container tightly closed.
Store this product in a cool, dry place away from heat or direct sunlight.
Protect from freezing.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: General ventilation is usually adequate. When handling large quantities of concentrated product; Use local exhaust ventilation, if necessary.

PERSONAL PROTECTIVE EQUIPMENT (PPE): None required.

EXPOSURE GUIDELINES:

INGREDIENT:	CAS NO.	%	Exposure Limits		
			ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA
Dipropyleneglycol Monomethyl Ether	34590-94-8	<20	150 ppm	150 ppm	100 ppm

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear liquid

ODOR: Insecticidal (Deet)

pH: 7.0

BOILING POINT: Not determined

MELTING POINT: Not determined

RELATIVE DENSITY (H₂O = 1) @25°C: 1.0 to 1.2 gm/ml

VAPOR PRESSURE (mmHg) @ °C: Not applicable

VAPOR DENSITY (AIR = 1): Not applicable

FLASH POINT: greater than 250°C

SOLUBILITY IN WATER: Soluble

SOLUBILITY IN SOLVENTS: Soluble in alcohol

VISCOSITY: 5-25 cps @ 25° C

VOLATILE ORGANIC COMPOUNDS (VOC): <16%

PARTITION COEFFICIENT: Not determined

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: Extreme temperatures

INCOMPATIBILITY (MATERIAL TO AVOID): Oxidizing agents.



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HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Carbon dioxide, Carbon monoxide, Nitrogen oxides

HAZARDOUS POLYMERIZATION: Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

The preparation has not been tested for all toxicological effects; some are classified on the basis of the known hazards of the components.

Acute oral toxicity:	LD50 – Greater than 3,129 mg/kg female rat Method: OPPTS 870.1100, OECD 425 Source: Product Tested 2004
Acute inhalation toxicity:	LC50 – Greater than 5.11mg/L Method OPPTS 870.1300, OECD 403 Source: Product Tested 2008
Acute dermal toxicity:	LD50 – Greater than 2000 mg/kg female & male rat Method: OPPTS 870.1200, OECD 402 Source: Product Tested 2008
Irritant effect on skin:	Slightly irritating, irritation cleared by 72hrs (PDII: 1.3) Method: OPPTS 870.2500, OECD 404 Source: Product Tested 2004
Irritant effect on eyes:	Severely irritating, irritation cleared by 14 days (MMS 28.7) Method: OPPTS 870.2400, OECD 405 Source: Product Tested 2004
Sensitization:	Not determined Method Source:
Mutagenicity:	Not mutagenic Method Ames Test OPPTS 870.5100, OECD 471 Source: Product Tested 2008
Carcinogenicity/Reproductive toxicity:	Not determined; None of the components present in this material at concentrations of 0.1% or greater are listed by IARC, NTP, OSHA or ACGIH as being carcinogens. Source: Safety Data Sheets of components
Specific Target Organ Toxicity	Single exposure (GHS) – no data available Repeated exposure (GHS) - no data available

Signs and Symptoms of Exposure

POTENTIAL HEALTH EFFECTS

INHALATION:	May cause irritation to lungs
SKIN CONTACT:	Do not use over cuts, wounds or irritated skin. Pre-existing skin disorders may be aggravated by exposure
EYE CONTACT:	Prolonged contact may cause irritation, with redness, pain, tearing, blurred vision and conjunctivitis.
INGESTION:	May be harmful if swallowed.
TARGET ORGANS:	Central Nervous System

SECTION 12: ECOLOGICAL INFORMATION

General Comments:	Ecotoxicological data have not been determined specifically for this product, but it is classified on the basis of the known hazards of the components. This section is not required by WHMIS.
Mobility	The product is water-based and expected to be mobile in the aquatic environment.
Biodegradability	N,N-Diethyl-m-toluamide - 83.8% (28d) Method: OECD 301B Source: Literature
Bioaccumulation	N,N-Diethyl-m-toluamide is not readily biodegradable in the environment, according to ECBI/07/00 Rev. 3 (29/8/00)



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Toxicity *N,N-Diethyl-m-toluamide has been shown to be toxic to aquatic organisms. LC50 approx. 97 mg/l (96H rainbow trout) Method: OECD 203 Source: Literature*

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Do not reuse any empty containers.

US: This product is not a hazardous solid waste as defined in Resource Conservation Recovery Act Regulations (40 CFR 261) and should be disposed of according to local, state and Federal regulations. Dispose of partially filled and empty containers by wrapping and discarding in trash.

International: This product should not be disposed of via the drains or by landfill. Disposal must be in accordance with current national and local regulations. Chemical residues generally count as special waste, and their disposal may be regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact either the authorities or approved waste disposal companies who will advise you on how to dispose of special waste.

General EU requirements are given in the Waste Framework Directive (75/442/EEC) and the Hazardous Waste Directive (91/689/EEC). Packaging may contain residues of the product and should be treated accordingly.

SECTION 14: TRANSPORT INFORMATION

SHIPPING INFORMATION:

Regulation	UN No.	Proper Shipping Name	Marine Pollutant: No Class	Package Group	Additional Information
U.S. Department of Transportation (DOT) – NonBulk	N/A	Consumer Commodity	ORM-D	N/A	
U.S. Department of Transportation (DOT) – Bulk	-	-	-	-	
Canadian Transportation of Dangerous Goods (TDG)	N/A	Consumer Commodity	ORM-D	N/A	
International Maritime Dangerous Goods (IMDG)	-	-	-	-	
International Air Transport Assoc. (IATA)	N/A	Consumer Commodity	ORM-D	N/A	

The transportation regulations are cited according to international regulations and in the form applicable to the United States and Canada. Possible national deviations in other countries are not considered.

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

TSCA (TOXIC SUBSTANCE CONTROL ACT): All components of this product are listed or exempt on the TSCA list

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): None

CERCLA HAZARDOUS SUBSTANCE: None

CERCLA REPORTABLE QUANTITY: None

RCRA 261 (RESOURCE CONSERVATION RECOVERY ACT): This product is not defined as a hazardous solid waste..

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

Section 302 Extremely Hazardous Substances (TPQ): None

311/312 HAZARD CLASS: None

313 REPORTABLE INGREDIENTS: None

U.S. STATE REGULATIONS:

California Proposition 65 Warning: None

States Right to Know: Pennsylvania -Propylene Glycol (57-55-6)

CANADIAN REGULATIONS:

WHMIS CLASSIFICATION: B3 Combustible Liquid  D2B Toxic 

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

DOMESTIC SUBSTANCE LIST (DSL)/NON-DOMESTIC SUBSTANCE LIST (NDSL): All components are listed or exempt

Canadian Ingredient Disclosure List: *N,N-Diethyl-m-toluamide(134-62-3), Dipropylene glycol Monomethyl Ether (34590-94-8), and Propylene Glycol (57-55-6)*

EU REGULATIONS:

Labeling in accordance with EC-Directives

Hazard symbols



Toxic to Aquatic Organisms



Irritant

Hazardous component(s) to be indicated on label – *N,N-Diethyl-m-toluamide(CAS # 134-62-3)*



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R phrases	22 36/38 52/53	<i>Harmful if swallowed Irritating to eyes and skin Harmful to aquatic organisms and may cause long-term adverse effects in the aquatic environment</i>
S phrases	2 26 49 61	<i>Keep out of the reach of children In case of contact with eyes, rinse immediately with plenty of water and seek medical advice Keep only in the original container Avoid release to the environment. Refer to special instructions/safety data sheet.</i>

SECTION 16: OTHER INFORMATION

HMIS		
Health: 1	Flammability: 1	Reactivity: 0
Special: None		

4=extreme 3=High 2=Moderate 1=Slight 0=Insignificant

REVISED SECTIONS OR REASON FOR REVISION:

1-(6-7-11) CORRECTED CAS # FOR WATER

ORIGIN DATE: APRIL 21, 2011

DISCLAIMER: *The information provided herein was believed to be accurate, to the best knowledge of Tender Corporation, at the time of preparation from a compilation of sources believed to be reliable and is furnished without warranty, expressed or implied. It is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling, storage and use of this product and to determine the suitability of the product for its intended use. This data sheet relates only to the specific product listed and does not relate to use in combination or in any process with other materials*