

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:	<i>Natrapel Insect Repellent (Canada)</i>	HMIS Hazard Rating	
Product Code:	<i>0001-1456</i>	HEALTH	1
SDS Date:	<i>July 7, 2016</i>	FLAMMABILITY	3
SDS Revision No.:	<i>2</i>	REACTIVITY	0
USE:	<i>Insect repellent</i>	PERSONAL PROTECTION	X

MANUFACTURER: *Tender Corporation*
ADDRESS: *944 Industrial Park Rd
 Littleton, NH 03561*
INFORMATION CALLS: *800-258-4696*
CUSTOMER SERVICE: *cs@tendercorp.com*
TECHNICAL QUESTIONS: *regulatory@tendercorp.com*
FAX PHONE: *603-444-6735*
EMERGENCY PHONE: *Spills :(800) 354-2382 (Veolia)*
Medical Information :(800) 258-4696 (Tender Corporation)

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: *Clear to slightly yellow, Flammable, Non-water soluble, Liquid*

HAZARD CLASSIFICATION: *Flammable*

GHS Label elements, including precautionary statements

Pictogram



Signal word: **DANGER**

Hazard statement(s)

*H226 Flammable liquid and vapour.
 H319 Causes serious eye irritation
 H336 May cause drowsiness or dizziness*

Precautionary statement(s)

*P102 Keep out of the reach of children
 P260 Do not breathe vapour/spray
 P305+P351+P338 IF IN EYES; Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 P313+P337 If eye irritation persists; Get medical advice/attention;
 P271 Use only outdoors or in a well ventilated area*

ROUTES OF EXPOSURE: *Dermal, oral*

POTENTIAL HEALTH EFFECTS

INHALATION: *May cause irritation to lungs*

SKIN CONTACT: *Do not use over wounds or irritated skin except as instructed on label
 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.*

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	Conc.(%)	CAS NO.	EC NO.	Classification
Citriodiol ®	25 to 50%	1245629-80-4		Eye Irrit 2:H319; EU - Xi
Ethyl alcohol or Ethanol	20 to 40	64-17-5	200-578-6	Flam. Liq 2: H225; EU -F WHMIS Class B2 flammable liquid –Toxic D2B
Isopropanol	10 to 20	67-63-0	200-661-7	None Flam. Liq 2: H225; Eye Irrit Cat 2:H319; STOT SE 3: H336 EU – F, Xi WHMIS Class B2 flammable liquid –Toxic D2B
Water	< 40.0	7732-18-5	231-791-2	None

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

SECTION 4: FIRST AID MEASURES

- GENERAL:** In case of an accident or if you feel unwell, seek medical advice and show the label if possible.
- INHALATION:** May cause nausea, headache, dizziness and intoxication. Move exposed person to fresh air at once. Get medical attention if any discomfort continues.
- INGESTION:** May cause discomfort if swallowed. May cause nausea, headache, dizziness and intoxication. Rinse mouth thoroughly. Do not induce vomiting. Seek medical attention if symptoms persist.
- SKIN CONTACT:** Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
- EYE CONTACT:** May irritate eyes. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water or eye wash solution while lifting the eye lids. Continue to rinse for at least 15 minutes. Contact physician if irritation persists.

Most important symptoms and effects, both acute and delayed: In cases of ingestion, central nervous system depression

Indication of any immediate medical attention and special treatment needed: No specific symptoms associated with exposure to this substance

SECTION 5: FIRE-FIGHTING MEASURES

FIRE AND EXPLOSIVE PROPERTIES: Flammable - This product is flammable or explosive

Flash Point: 26 °C

Flammable Limits: not determined

EXTINGUISHING MEDIA: Dry powder, alcohol resistant foam, carbon dioxide. Do not use Water(Citriodiol® is insoluble in water)

SPECIFIC HAZARDS: In case of fire, hazardous combustion gases may be formed:
Carbon monoxide (CO)

ADVICE FOR FIREFIGHTERS: Wear self-contained breathing apparatus and a chemical protective suit. Fight fire from a safe distance and stay upwind. Do not allow extinguishing water to reach ground water or sewage system.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Use personal protective equipment if required.

ENVIRONMENTAL PRECAUTIONS: Do not allow product to enter drains or ground water.

METHOD FOR CONTAINMENT AND CLEAN-UP:

Extinguish all ignition sources. Avoid sparks, flames, heat & smoking. Ventilate. Stop leak if possible without risk. Absorb with sand or other inert absorbent. Collect in containers and seal securely. Containers with collected spillage must be properly labeled with correct contents and hazard symbol. Report spills to local health, safety and environmental authorities, as required.

SECTION 7: HANDLING AND STORAGE

HANDLING: Read entire label before using. Use strictly in accordance with label precautionary statements and directions. Avoid contact with eyes, Handle in accordance with good industrial hygiene and safety practices. Wash hands after use.

STORAGE: Store in tightly closed original container in a dry, cool and well ventilated place. Keep away from heat, sparks and open flames. Do not store in direct sunlight. Protect from freezing.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: *Provide adequate ventilation to minimize the risk of inhalation of vapours.*

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Eye/face protection: *Use safety glasses or eye protection tested and approved under appropriate government standards. If handling large amounts a face shield may be more suitable.*

Respiratory Equipment: *Under normal usage conditions respiratory protection will not be necessary. Protection may be required under exceptional circumstances, for example when excessive air contamination exists.*

Hand Protection: *Wear suitable protective gloves. Suitable material would be nitrile rubber.*

EXPOSURE GUIDELINES:

INGREDIENT:	CAS NO.	Exposure Limits		
		ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL
<i>Ethyl alcohol or Ethanol</i>	<i>64-17-5</i>	<i>1000 ppm</i>		<i>1000 ppm</i>
<i>Isopropanol</i>	<i>67-63-0</i>	<i>400 ppm</i>	<i>500 ppm</i>	<i>400 ppm</i>

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: *Colorless to pale yellow liquid*

ODOR: *Citrus*

pH: *7 - 9*

BOILING POINT: *Not determined*

MELTING POINT: *Not determined*

RELATIVE DENSITY (H₂O = 1) @20°C: *0.89-0.93 gm/ml*

VAPOR PRESSURE (mmHg) @ 25°C: *Not determined*

VAPOR DENSITY (AIR = 1): *Not determined*

FLASH POINT: *26°C*

SOLUBILITY IN WATER: *Insoluble*

SOLUBILITY IN SOLVENTS: *Soluble in alcohol*

VISCOSITY: *Not determined*

VOLATILE ORGANIC COMPOUNDS (VOC): *less than 40%*

PARTITION COEFFICIENT: *Not determined*

SECTION 10: STABILITY AND REACTIVITY

STABILITY: *Stable under ambient conditions*

CONDITIONS TO AVOID: *Heat, sparks and open flame*

INCOMPATIBILITY (MATERIAL TO AVOID): *Strong oxidizing agents*

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: *No data available*

HAZARDOUS POLYMERIZATION: *No data available*

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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:
Citriodiol®
LD₅₀ – 2480 mg/kg bw (rat)

Method: OECD 401

Source: SDS Citrefine – June 2013

Ethanol
LD₅₀ – > 2000 mg/kg bw (rat)

Method: OECD 401

Source: Literature

Isopropanol
LD₅₀ – > 2000 mg/kg bw (rat)

Method: OECD 401

Source: Literature

Acute inhalation toxicity:
Citriodiol®
LC₅₀ >0.85mg/L

Method: EPA/FIFRA guideline 83-1

Source: SDS Citrefine – June 2013

Ethanol
LC₅₀ 5.9 mg/l (rat-6hrs)

Method: unknown

Source: IUCLID Dataset ID: 64-17-5

Isopropanol
LC₅₀
Method:
Source: Literature

Acute dermal toxicity:
Citriodiol®
LD₅₀ >2000 mg/kg bw (rat)

Method: OECD 402

Source: SDS Citrefine – June 2013

Ethanol
LD₅₀ 2000 mg/kg bw (rat)

Method: OECD 402

Source: IUCLID Dataset ID: 64-17-5

Isopropanol
LD₅₀ > 2000 mg/kg bw (rabbit)

Method: OECD 402

Source: Literature

Irritant effect on skin:
Citriodiol®

Mild irritant (not sufficient for classification)

Method: OECD 404

Source: SDS Citrefine – June 2013

Ethanol

Slightly irritating (rabbit)

Method: OECD 404

Source: IUCLID Dataset ID: 64-17-5

Isopropanol

Not irritating

Method: OECD 404

Source: Literature

Irritant effect on eyes:
Citriodiol®

Moderate irritant

Method: OECD 405

Source: SDS Citrefine – June 2013

Ethanol

Slightly irritating (rabbit)

Method: OECD 405

Source: IUCLID Dataset ID: 64-17-5

Isopropanol

Irritating

Method: OECD 405

Source: Literature

Corrosivity: No study conducted but no components are corrosive and material has a pH between 7-9

Sensitization:
Citriodiol®

Non sensitizer

Method: OECD 406

Source: SDS Citrefine – June 2013

Ethanol

Guinea pig: not sensitizing

Method: OECD 406

Source: Literature

Isopropanol

Guinea pig: not sensitizing

Method: Buehler Test

Source: Literature

Repeated dose toxicity :
Citriodiol®

Rat (dermal): NOAEL at 1000 mg/kg day in 28-day study.

Method: OECD 410 & OPPTS 870.3200

Source: SDS Citrefine – June 2013

Carcinogenicity: No study conducted. No carcinogenic potential identified in components for which data are available.

Mutagenicity:
Citriodiol®

Not genotoxic

Method: OECD 471, 473 & 474

Source: SDS Citrefine – June 2013

Ethanol

Ames Test: not mutagenic

Method: OECD 471

Source: Literature

Isopropanol

Ames Test: not mutagenic

Method: OECD 471

Source: Literature

Reproductive toxicity: No reproductive toxicity and no adverse systemic effects **Source:** OPPTS 870.3800

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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 *Not expected to be mobile in the aquatic environment.*

Biodegradability *All components are readily biodegradable Source: Manufacturers SDS OECD 301F&D*

Bioaccumulation *Unlikely as Citriodiol® is readily metabolized in the human body, by microorganisms and in the soil. Propan-2-ol is not considered to be persistent, bioaccumulating or toxic. Ethanol – no data available*

Toxicity
Fish
Citriodiol®

Danio rerio EC50: >35mg/L –96 hours

Method: OECD 203

Source: SDS Citrefine – June 2013

Ethanol

Leuciscus idus LC50:>100mg/L – 48hr

Method: OECD 203

Source: Literature

Isopropanol

Leuciscus idus melatonus LC50:>100mg/L – 48hr

Method:

Source: Literature

Invertebrates
Citriodiol®

Daphnia Magna EC50: >26mg/L –48 hours

Method: OECD 202

Source: SDS Citrefine – June 2013

Ethanol

Daphnia Magna EC50: >100mg/L –24hr

Method: OECD 202

Source: Literature

Isopropanol

Daphnia Magna EC50: >100mg/L –48hr

Method:

Source: Literature

Algae
Citriodiol®

Pseudokirchneriella EC50: >37mg/L –72 hours

Method: OECD 201

Source: SDS Citrefine – June 2013

Ethanol

Chlorella pyrenoidosa EC50: >100mg/L

Method: OECD 201

Source: Literature

Isopropanol

Scenedesmus subspicatus EC50: >100mg/L – 72hr

Method:

Source: Literature

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: *Do not reuse any empty containers.*

US: *This product is a hazardous liquid waste (D001) 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 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:
Marine Pollutant: No

Regulation	UN No.	Proper Shipping Name	Class	Pkg Group	Additional Information
U.S. Department of Transportation (DOT) – NonBulk	N/A	Consumer Commodity	ORM-D	N/A	Consumer Commodity/ Limited Qty Exemption Not exceeding 1L
U.S. Department of Transportation (DOT) – Bulk	1987	Flammable Liquid	3	II	Alcohols, nos(Ethanol, Propan-2-ol)
Canadian Transportation of Dangerous Goods(TDG)	N/A	Consumer Commodity	ORM-D	N/A	Consumer Commodity/ Limited Qty Exemption Not exceeding 1L
International Maritime Dangerous Goods (IMDG)	-	-	-	-	
International Air Transport Assoc. (IATA)	N/A	Consumer Commodity	ORM-D	III	

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.

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SECTION 15: REGULATORY INFORMATION
U.S. FEDERAL REGULATIONS: *This product is not available in the US market*

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

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 defined as a hazardous waste (D001).

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: Ethyl alcohol or Ethanol (64-17-5) when in alcoholic beverages

 States Right to Know: Ethyl alcohol (64-17-5) Pennsylvania, Rhode Island, Florida, Massachusetts, New Jersey, Tennessee, California
 Isopropanol (67-63-0) Pennsylvania, New Jersey

CANADIAN REGULATIONS:

WHMIS CLASSIFICATION: B2 Flammable Liquid



D2B Toxic



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.

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

Canadian Ingredient Disclosure List: Ethyl alcohol or Ethanol (64-17-5), Isopropanol(67-63-0)

EU REGULATIONS: *This product is not available in the EU market*

Labeling in accordance with EC-Directives

Hazard symbols



Flammable



Irritant

Hazardous component(s) to be indicated on label – Ethyl alcohol or Ethanol (64-17-5)

R phrases	22	Harmful if swallowed
	36/37/38	Irritating to eyes, respiratory system and skin
S phrases	2	Keep out of the reach of children
	7	Keep container tightly closed
	16	Keep away from sources of ignition – No smoking
	26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
	49	Keep only in the original container

SECTION 16: OTHER INFORMATION

HMIS		
Health: 1	Flammability: 3	Reactivity: 0
Special: Flammable Liquid		

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

REVISED SECTIONS OR REASON FOR REVISION:

ORIGIN DATE: DECEMBER 18, 2013

(Rev 1)-12-26-13 Added Ethyl Alcohol OSHA PEL is 1000 PPM & Isopropanol is 400 ppm as required by OSHA

(Rev 2) – 07-07-16 Address & Formatting Changes

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