SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Natrapel Insect Repellent (Canada)  
Product Code: 0001-1456  
SDS Date: July 7, 2016  
SDS Revision No.: 2  
USE: Insect repellent

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.
SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Conc. (%)</th>
<th>CAS NO.</th>
<th>EC NO.</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Citriodiol ®</td>
<td>25 to 50%</td>
<td>1245629-80-4</td>
<td></td>
<td>Eye Irrit 2: H319; EU - Xi</td>
</tr>
<tr>
<td>Ethyl alcohol or Ethanol</td>
<td>20 to 40</td>
<td>64-17-5</td>
<td>200-578-6</td>
<td>Flam. Liq 2: H225; EU -F</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>10 to 20</td>
<td>67-63-0</td>
<td>200-661-7</td>
<td>None Flam. Liq 2: H225; Eye Irrit Cat 2: H319; STOT SE 3: H336 EU - F, Xi</td>
</tr>
<tr>
<td>Water</td>
<td>&lt; 40.0</td>
<td>7732-18-5</td>
<td>231-791-2</td>
<td>None</td>
</tr>
</tbody>
</table>

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.
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:

<table>
<thead>
<tr>
<th>INGREDIENT</th>
<th>CAS NO.</th>
<th>ACGIH TLV-TWA</th>
<th>ACGIH TLV-STE</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol or Ethanol</td>
<td>64-17-5</td>
<td>1000 ppm</td>
<td></td>
<td>1000 ppm</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>67-63-0</td>
<td>400 ppm</td>
<td>500 ppm</td>
<td>400 ppm</td>
</tr>
</tbody>
</table>

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
### 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®**
  - LD$_{50}$: 2480 mg/kg bw (rat)
  - Method: OECD 401
  - Source: SDS Citrefine – June 2013

- **Ethanol**
  - LD$_{50}$: > 2000 mg/kg bw (rat)
  - Method: OECD 401
  - Source: Literature

- **Isopropanol**
  - LD$_{50}$: > 2000 mg/kg bw (rat)
  - Method: OECD 401
  - Source: Literature

#### Acute inhalation toxicity:
- **Citriodiol®**
  - LC$_{50}$: >0.85mg/L
  - Method: EPA/FIFRA guideline 83
  - Source: SDS Citrefine – June 2013

- **Ethanol**
  - LC$_{50}$: 5.9 mg/l (rat-6hrs)
  - Method: unknown
  - Source: Literature

- **Isopropanol**
  - LC$_{50}$: >2000 mg/kg bw (rabbit)
  - Method: OECD 401
  - Source: Literature

#### Acute dermal toxicity:
- **Citriodiol®**
  - LD$_{50}$: >2000 mg/kg bw (rat)
  - Method: OECD 402
  - Source: SDS Citrefine – June 2013

- **Ethanol**
  - LD$_{50}$: 2000 mg/kg bw (rat)
  - Method: OECD 402
  - Source: IUCLID Dataset ID: 64-17-5

- **Isopropanol**
  - LD$_{50}$: > 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
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

<table>
<thead>
<tr>
<th>Component</th>
<th>EC50 Value</th>
<th>Method</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Citriodiol®</td>
<td>&gt;35mg/L – 96 hours</td>
<td>OECD 203 Method</td>
<td>SDS Citrefine – June 2013</td>
</tr>
<tr>
<td>Ethanol</td>
<td>Leuciscus idus LC50: &gt;100mg/L – 48hr</td>
<td>OECD 203 Method</td>
<td>Literature</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>Leuciscus idus melatonus LC50: &gt;100mg/L – 48hr</td>
<td>Method</td>
<td>Literature</td>
</tr>
</tbody>
</table>

Invertebrates

<table>
<thead>
<tr>
<th>Component</th>
<th>EC50 Value</th>
<th>Method</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Citriodiol®</td>
<td>&gt;26mg/L – 48 hours</td>
<td>OECD 202 Method</td>
<td>SDS Citrefine – June 2013</td>
</tr>
<tr>
<td>Ethanol</td>
<td>Scaphidium gracile EC50: &gt;100mg/L – 48hr</td>
<td>OECD 202 Method</td>
<td>Literature</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>Daphnia Magna EC50: &gt;100mg/L – 48hr</td>
<td>Method</td>
<td>Literature</td>
</tr>
</tbody>
</table>

Algae

<table>
<thead>
<tr>
<th>Component</th>
<th>EC50 Value</th>
<th>Method</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Citriodiol®</td>
<td>&gt;37mg/L – 72 hours</td>
<td>OECD 201 Method</td>
<td>SDS Citrefine – June 2013</td>
</tr>
<tr>
<td>Ethanol</td>
<td>Chlorella pyrenoidosa EC50: &gt;100mg/L</td>
<td>OECD 201 Method</td>
<td>Literature</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>Scenedesmus subspicatus EC50: &gt;100mg/L – 72hr</td>
<td>Method</td>
<td>Literature</td>
</tr>
</tbody>
</table>

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

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

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 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 (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**

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health: 1</th>
<th>Flammability: 3</th>
<th>Reactivity: 0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Special: Flammable Liquid</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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**

**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.