



# MATERIAL SAFETY DATA SHEET

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

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

<b>PRODUCT NAME:</b>	<i>Natrapel® Eco-Spray</i>	<b>HMIS Hazard Rating</b>	
	<i>DEET-Free Insect Repellent for Children and Adults</i>	HEALTH	0
<b>Product Code:</b>	<i>0001-1270 Eco</i>	FLAMMABILITY	0
<b>MSDS Date:</b>	<i>March 16, 2012</i>	REACTIVITY	0
<b>MSDS Revision No.:</b>	<i>New</i>	PERSONAL PROTECTION	X
<b>USE:</b>	<i>Insect Repellent</i>		
<b>MANUFACTURER:</b>	<i>Tender Corporation</i>		
<b>ADDRESS:</b>	<i>106 Burndy Road Littleton, NH 03561</i>		
<b>INFORMATION CALLS:</b>	<i>800-258-4696</i>		
<b>E-Mail:</b>	<i>customerservice@tendercorp.com</i>		
<b>FAX PHONE:</b>	<i>603-444-6735</i>		
<b>EMERGENCY PHONE:</b>	<i>Spills: (800) 354-2382 (Veolia) Medical Information:(800) 258-4696 (Tender Corporation)</i>		

### SECTION 2: HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** *White to off-white, citronella odor, Non-flammable, water soluble liquid*

#### HAZARD CLASSIFICATION:

**GHS Label elements, including precautionary statements**

*Pictogram*



*Signal word: Warning*

*Hazard statement(s)*

<i>H302</i>	<i>Harmful if swallowed</i>
<i>H315</i>	<i>Causes skin irritation</i>
<i>H319</i>	<i>Causes serious eye irritation</i>

*Precautionary statement(s)*

<i>P102</i>	<i>Keep out of the reach of children</i>
<i>P234</i>	<i>Keep in original container</i>
<i>P305+P351+P338</i>	<i>IF IN EYES; Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing</i>
<i>P301+330+331+315</i>	<i>IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Get immediate medical advice/attention.</i>

**ROUTES OF EXPOSURE:** *Dermal, oral, eye*

#### POTENTIAL HEALTH EFFECTS

<b>INHALATION:</b>	<i>Excessive inhalation may cause mucous membrane irritation, with sore throat, coughing and shortness of breath.</i>
<b>SKIN CONTACT:</b>	<i>Do not use over cuts, wounds or irritated skin. May cause irritation with redness and pain, progressing to dermatitis. Pre-existing skin disorders may be aggravated by exposure</i>
<b>EYE CONTACT:</b>	<i>Prolonged contact may cause irritation, with redness, pain, tearing, blurred vision and conjunctivitis.</i>
<b>INGESTION:</b>	<i>May be harmful if swallowed.</i>



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### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	Conc. (%)	CAS NO.	EC NO.	Classification
Citronella Oil	10 to 12	8000-29-1	205-149-7	EU-C, X <sub>i</sub> R-43-36/37/38, 51/53
Water	70 to 90	7732-18-5	231-791-2	None
Sodium Lauryl Sulfate	1 to 3	151-21-3	205-788-1	WHMIS Class D2B; EU-X <sub>i</sub> R-36/37/38
Potassium Sorbate	0.1 to 0.5	590-00-1	246-376-1	EU-X <sub>i</sub> R-36/37/38
Xanthan Gum	0.1 to 0.5	11138-85-2	234-394-2	None
Sodium Benzoate	0.1 to 0.5	532-32-1	208-534-8	EU-X <sub>i</sub> -R36/37/38
Citric Acid	0.1 to 0.5	77-92-9	201-069-1	WHMIS Class E; EU-X <sub>i</sub> , C R41-36/37/38-34

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. Remove contact lenses, if present and easy to do. 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

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 (CO<sub>2</sub>)

**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 to prevent runoff. Recover contaminated water for appropriate disposal. Report spills to local health, safety and environmental authorities, as required.



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### SECTION 7: HANDLING AND STORAGE

**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. Avoid contact with eyes.*

**PERSONAL PROTECTIVE EQUIPMENT (PPE):** *None required.*

#### EXPOSURE GUIDELINES:

INGREDIENT:	CAS NO.	%	Exposure Limits		
			ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** *White liquid*

**ODOR:** *Citronella*

**pH:** *5.0*

**BOILING POINT:** *Not determined*

**MELTING POINT:** *Not determined*

**RELATIVE DENSITY (H<sub>2</sub>O = 1) @25°C:** *0.98 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:** *Not determined*

**VISCOSITY:** *700-1500 cps @ 25° C*

**VOLATILE ORGANIC COMPOUNDS (VOC):** *Not determined*

**PARTITION COEFFICIENT:** *Not determined*



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#### SECTION 10: STABILITY AND REACTIVITY

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<b>STABILITY:</b>	Stable
<b>CONDITIONS TO AVOID:</b>	Extreme temperatures
<b>INCOMPATIBILITY (MATERIAL TO AVOID):</b>	Oxidizing agents, strong acid or bases, reducing agents
<b>HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:</b>	Carbon dioxide, Carbon monoxide
<b>HAZARDOUS POLYMERIZATION:</b>	Will not occur

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#### SECTION 11: TOXICOLOGICAL INFORMATION

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

<b>Acute oral toxicity:</b>	<b>LD50</b> – Greater than 2,000 mg/kg female rat <b>Method:</b> OPPTS 870.1100, OECD 425 <b>Source:</b> Product Tested 2004
<b>Acute inhalation toxicity:</b>	Not determined <b>Method:</b> <b>Source:</b>
<b>Acute dermal toxicity:</b>	Not determined <b>Method:</b> <b>Source:</b>
<b>Irritant effect on skin:</b>	Moderately irritating (PDII: 3.0) <b>Method:</b> OPPTS 870.2500, OECD 404 <b>Source:</b> Product Tested 2004
<b>Irritant effect on eyes:</b>	Moderately irritating, irritation cleared by 10 days (MMTS 26.3) <b>Method:</b> OPPTS 870.2400, OECD 405 <b>Source:</b> Product Tested 2004
<b>Sensitization:</b>	Not determined <b>Method</b> <b>Source:</b>
<b>Mutagenicity:</b>	Not determined <b>Method</b> <b>Source:</b>
<b>Carcinogenicity/Reproductive toxicity:</b>	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. <b>Source:</b> Safety Data Sheets of components
<b>Specific Target Organ Toxicity</b>	<b>Single exposure (GHS)</b> – no data available <b>Repeated exposure (GHS)</b> - no data available
<b>Signs and Symptoms of Exposure</b>	Redness or rash

#### POTENTIAL HEALTH EFFECTS

<b>INHALATION:</b>	Excessive inhalation may cause mucous membrane irritation, with sore throat, coughing and shortness of breath.
<b>SKIN CONTACT:</b>	Do not use over cuts, wounds or irritated skin. May cause irritation with redness and pain, progressing to dermatitis. Pre-existing skin disorders may be aggravated by exposure
<b>EYE CONTACT:</b>	Prolonged contact may cause irritation, with redness, pain, tearing, blurred vision and conjunctivitis.
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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** *The product is water-based and expected to be mobile in the aquatic environment.*

**Biodegradability** *Not Determined*

**Bioaccumulation** *Not Determined*

**Toxicity** *Citronella Oil is toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment  
Source: Manufacturer's Safety Data Sheet*

### 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:

**Marine Pollutant:** Yes

Regulation	UN No.	Proper Shipping Name	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	-	-	-	-	<i>Not regulated</i>
Canadian Transportation of Dangerous Goods (TDG)	N/A	Consumer Commodity	ORM-D	N/A	
International Maritime Dangerous Goods (IMDG)	-	-	-	-	<i>Not regulated</i>
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:** *NJ, PA, MA - Potassium sorbate (246-376-1), Sodium lauryl sulfate (151-21-2)*

*NJ, PA - Citric Acid (77-92-9), Potassium sorbate (590-00-1), Sodium Benzoate (532-32-1), Xanthan gum(11138-66-2)*



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### CANADIAN REGULATIONS:



WHMIS CLASSIFICATION: D2B

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: Sodium lauryl sulfate (151-21-3), Citric Acid (77-92-9)

### EU REGULATIONS:

Labeling in accordance with EC-Directives

Hazard symbols



Irritant



Toxic to Aquatic Organisms

Hazardous component(s) to be indicated on label – Sodium benzoate (532-32-1), Citronella Oil (8000-29-1)

<b>R phrases</b>	22	Harmful if swallowed
	36/38	Irritating to eyes and skin
	43	May cause sensitization by skin contact
	51	Toxic to aquatic organisms
	53	May cause long-term adverse effects in the aquatic environment
<b>S phrases</b>	2	Keep out of the reach of children
	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

<b>HMIS</b>		
<b>Health: 0</b>	<b>Flammability: 0</b>	<b>Reactivity: 0</b>
<b>Special: None</b>		

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

### REVISED SECTIONS OR REASON FOR REVISION:

ORIGIN DATE: MARCH 16-2012 –GHS FORMAT

**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