



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: *Natrapel® 8HR with Picaridin in bottles, wipes & continuous spray*
EPA Reg. No. 39967-53-5675, 56575-14 & 56575-15

MSDS Date: *December 22, 2011*
MSDS Revision No.: *New*
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: *Spills: Veolia (800) 354-2382
Medical: Poison Control Center Information:(800) 258-4696*

HMIS Hazard Rating

HEALTH	1
FLAMMABILITY	3
REACTIVITY	0
PERSONAL PROTECTION	X

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: *Clear, lemony odor, Flammable, Water soluble Liquid*

HAZARD CLASSIFICATION: *Flammable*
GHS Label elements, including precautionary statements
Pictogram



Signal word: **WARNING**



DANGER

Hazard statement(s)

<i>H225</i>	<i>Highly flammable liquid and vapour</i>
<i>H302</i>	<i>Harmful if swallowed</i>
<i>H319</i>	<i>Causes serious eye irritation</i>
<i>H315</i>	<i>Causes skin irritation</i>
<i>H412</i>	<i>Harmful to aquatic organisms and may cause long-term adverse effects in the aquatic environment</i>

Precautionary statement(s)

<i>P210</i>	<i>Keep away from heat/sparks/open flames/hot surfaces –No smoking</i>
<i>P233+234+235</i>	<i>Keep container tightly closed. Keep in original container. Keep cool.</i>
<i>P243</i>	<i>Take precautionary measures against static discharge.</i>
<i>P403</i>	<i>Store in a well-ventilated place</i>
<i>P102+234</i>	<i>Keep out of the reach of children. 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>
<i>P273</i>	<i>Avoid release to the environment</i>

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.*



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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	Conc.(%)	CAS NO.	EC NO.	Classification
Picaridin [1-Piperidinecarboxylic acid, 2-(2hydroxyethyl)-, 1-methylpropyl-ester]	20	119515-38-7		
Water	20 to 30	7732-18-5	231-791-2	None
Ethyl alcohol	20 to 30	64-17-5	200-578-6	WHMIS Class B2 flammable liquid –Toxic D2B EU-F;R11
Polyethylene Glycol 400	15 to 30	25322-68-3		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: Flammable - Explosive/hazardous vapors and flammable liquid
Flash Point: 78° F
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 (NOx)

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.



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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.*

STORAGE: *Do not contaminate food or feed.
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
<i>Ethyl alcohol</i>	<i>64-17-5</i>	<i>< 30</i>	<i>1000 ppm</i>		<i>1000 ppm</i>

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: *Clear liquid*

ODOR: *Lemony*

pH: *7.0 to 9.0*

BOILING POINT: *Greater than 35°C*

MELTING POINT: *Not determined*

RELATIVE DENSITY (H₂O = 1) @25°C: *0.98 gm/ml*

VAPOR PRESSURE (mmHg) @ °C: *Not applicable*

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

FLASH POINT: *78°C*

SOLUBILITY IN WATER: *Soluble*

SOLUBILITY IN SOLVENTS: *Soluble in alcohol*

VISCOSITY: *5-25 cps @ 25° C*

VOLATILE ORGANIC COMPOUNDS (VOC): *<36%*

PARTITION COEFFICIENT: *Not determined*



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SECTION 10: STABILITY AND REACTIVITY

STABILITY:	<i>Stable</i>
CONDITIONS TO AVOID:	<i>Extreme temperatures</i>
INCOMPATIBILITY (MATERIAL TO AVOID):	<i>Oxidizing agents, acids, alkali metals, ammonia, peroxides, calcium hypochlorite, reducing agents</i>
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:	<i>Carbon dioxide, Carbon monoxide, Hydrogen cyanide Nitrogen oxides</i>
HAZARDOUS POLYMERIZATION:	<i>Will not occur</i>

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 – 6200 mg/kg bw (rat) Method: unknown Source: IUCLID Datasheet ID: 64-17-5, 18-Feb-2000
Acute inhalation toxicity:	LC50 – 5.9 mg/l (rat-6hrs) Method: unknown Source: IUCLID Datasheet ID: 64-17-5, 18-Feb-2000
Acute dermal toxicity:	LDLo – 2000 mg/kg bw (rabbit) Method: unknown Source: IUCLID Datasheet ID: 64-17-5, 18-Feb-2000
Irritant effect on skin:	<i>Non-irritating (rabbit)</i> Method: OECD Guide-Line 404 Source: IUCLID Datasheet ID: 64-17-5, 18-Feb-2000
Irritant effect on eyes:	<i>Moderately irritating (rabbit)</i> Method: OECD Guide-Line 405 Source: IUCLID Datasheet ID: 64-17-5, 18-Feb-2000
Sensitization:	<i>Not sensitizing (guinea pig)</i> Method: unknown Source: IUCLID Datasheet ID: 64-17-5, 18-Feb-2000
Mutagenicity:	<i>Not determined</i> Method Source:
Carcinogenicity/Reproductive toxicity:	<i>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.</i> 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	<i>irritation, dryness and cracking of skin, may cause headaches and irritation to throat</i>
POTENTIAL HEALTH EFFECTS	
INHALATION:	<i>May cause irritation to lungs</i>
SKIN CONTACT:	<i>Do not use over cuts, wounds or irritated skin. Pre-existing skin disorders may be aggravated by exposure</i>
EYE CONTACT:	<i>Prolonged contact may cause irritation, with redness, pain, tearing, blurred vision and conjunctivitis.</i>
INGESTION:	<i>May be harmful if swallowed.</i>
TARGET ORGANS:	<i>Respiratory system</i>



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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 alcohol-based and expected to be mobile in the aquatic environment.*

Biodegradability *Ethanol is expected to be biodegradable Source: Ethanol Manufacturers SDS*

Bioaccumulation *Ethanol is not expected to bioaccumulate in the environment.*

Toxicity *Ethanol is not classified as harmful or toxic to aquatic life. LC50 Rainbow Trout >10,000mg/L (96hr), Flathead minnow LC50 15,300 mg/L (96hr) Source: Ethanol Manufacturers SDS and IUCLID Datasheet*

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 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	1170	Flammable Liquid	3	II	<i>nos Ethanol solution</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 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*



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U.S. STATE REGULATIONS:

California Proposition 65 Warning: Ethyl alcohol (64-17-5) when in alcoholic beverages. This product may contain trace amounts of Ethylene Oxide (CAS Number 75-21-8). This is a chemical known to the state of California to cause cancer.

States Right to Know: Ethyl alcohol (64-17-5) Pennsylvania, Rhode Island, Florida, Massachusetts, New Jersey, Tennessee, California; 1-Piperidinecarboxylic acid, 3-(2-hydroxyethyl)-, 1-methylpropylester (119515-38-7) Pennsylvania

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 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: Ethyl alcohol (64-17-5)

EU REGULATIONS:

Labeling in accordance with EC-Directives

Hazard symbols



Flammable



Irritant

Hazardous component(s) to be indicated on label – Ethyl alcohol (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: None		

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

REVISED SECTIONS OR REASON FOR REVISION:

ORIGIN DATE: DECEMBER 22, 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