

Safety Data Sheet

Prepared according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

1

Date Issued: April 6, 2018

Version: 3.0

1 PRODUCT CHEMISTRY AND COMPANY IDENTIFICATION

Product Name :Ranger Ready Repellents Tick + Insect Spray
Product Use :Tick and insect repellent
EPA Registration Number :93221-1
Manufacture/Supplier :The Pic20 Group, LLC
87 Water Street
Norwalk, Connecticut 06854
USA
In Case of Emergency :ChemTrec
+1.800.424.9300

2 HAZARDS IDENTIFICATION

2.1 Product hazard category

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Physical State :Liquid
Skin Sensitization :Category 1
Serious eye damage/eye irritation :Category 2
Flammable Liquid :Category 3
Hazards Not Otherwise Classified (HNOC) :None known.

2.2 Label Content

Pictogram :



Signal Word :WARNING
Hazardous Statements :Flammable liquid and vapor. Causes eye irritation. Causes skin irritation. May cause an allergic skin reaction. Combustible liquid.
Prevention :Wear protective gloves and eye/face protection. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Avoid breathing dust/fumes/gas/mist/vapors/spray. Use in well-ventilated area. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
Response :Get medical attention if you feel unwell. IF INHALED: Remove victim to fresh air and keep at rest in position comfortable for breathing. IF ON CLOTHES(or hair): Take off immediately contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. If skin irritation occurs: get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Storage :Store in well ventilated place. Keep cool.
Disposal :Dispose of contents and container in accordance with all local, regional, national and international regulations.

2.3 Other hazards

Hazards Not Otherwise Classified (HNOC) :None known.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture :Mixture

Component	CAS-No.	Concentration
Ethanol, denatured	64-17-5	28-30%
Fragrance	NA	0.1-1.5%

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret or due to batch variability.

4 FIRST AID MEASURES

4.1 Description of first aid measures

General Advise	:If symptoms persist, call a physician.
Eye Contact	:Check for and remove any contact lenses. Get medical attention. In case of contact, flush eyes with plenty of water for at least 20 minutes. Use fingers to ensure that eyelids are separated and that the eye is being irrigated.
Inhalation	:Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. If not breathing, if breathing is irregular or respiratory arrest occurs, provide artificial respiration, or oxygen by a trained professional, using a pocket type respirator.
Skin Contact	:This material is not expected to irritate the skin. However, if irritation or rash should develop, flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse. In case of contact, flush skin with plenty of water for at least 20 minutes.
Ingestion	:Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

4.2 Potential acute health effects

Eye contact	:Causes irritation with symptoms of reddening, tearing, stinging, and swelling.
Inhalation	:May cause respiratory irritation.
Skin Contact	:Causes skin irritation.
Ingestion	:Irritating to mouth, throat and stomach.

4.3 Over-exposure signs/symptoms

Eye contact	:Causes serious eye irritation.
Inhalation	:May cause nervous system effects which can include symptoms of dizziness, in-coordination, headache, numbness, and/or confusion. May cause respiratory tract irritation with symptoms of coughing, sore throat and runny nose.

Skin Contact	:Causes irritation with symptoms of reddening, itching, and swelling. Once sensitized, an allergic skin reaction may occur with reddening, swelling, and rash when subsequently exposed to very low levels.
Ingestion	:May cause irritation; Symptoms may include abdominal pain, nausea, vomiting, and diarrhea.

4.4 Potential chronic health effects

Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Note to physician	:Treat symptomatically. No specific treatment.
Protection of first-aiders	:No specific measures required.

5 FIREFIGHTING MEASURES

Suitable extinguishing media	:Use dry chemical, CO, water spray (fog) or foam.
Unsuitable extinguishing media	:Do not use water jet.
Specific hazard arising from the chemical	:Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.
Hazardous thermal decomposition products	:Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides.
Special protective actions for fire-fighters	:Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. If this is impossible, withdraw from area and allow fire to burn. Fight fire from protected location or maximum possible distance.
Special protective equipment for fire-fighters	:Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures	:No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
Environmental precautions	:Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for containment and cleaning up	:Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. Prevent entry into sewers, water courses, basements or confined areas.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Protective measures

:Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container. Remove contaminated clothing and protective equipment before entering eating areas. Workers should wash hands and face before eating, drinking and smoking. Put on appropriate personal protection equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Persons with a history of skin sensitization to this product should not be employed in any process in which this product is used.

Conditions for safe storage

:Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Empty containers retain product residue and can be hazardous. Do not reuse container.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Occupational exposure limits

Exposure Limit Values

Ethanol, denature (64-17-5):

Permissible exposure limit (PEL)	(OSHA)	1000 ppm	8 hr. TWA
Permissible exposure limit (PEL)	(OSHA)	1900 mg/m ³	8 hr. TWA
Threshold Limit Value (TLV)	(ACGIH)	1000 ppm	15 min. STEL

Draknar N SFC1315 Frag: None

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Protective measures

:Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

8.2 Personal Protection

Hygiene measures

:Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location

Respiratory protection

:In case of insufficient ventilation, wear suitable respiratory equipment. NIOSH approved, air-purifying organic vapor respirator.

Safety Data Sheet

Prepared according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

5

Skin protection	:Permeation resistant gloves. Wear cloth work clothing including long pants and long sleeved shirts. Suitable protective footwear.
Eye/face protection	:Safety glasses with side-shields.
Medical Surveillance	:Not available.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Physical State	:Liquid
Color	:Colorless to pale yellow
Odor	:Varies
Odor threshold	:No information available

Other Properties:

pH	:7-9
Melting point/freezing point	:Not available
Initial boiling point and boiling range	:Not available.
Flash point	:28 °C
Evaporation rate	:No information available
Flammability (solid, gas)	:No information available
Upper/lower flammability or explosive limits	:No information available
Vapor pressure	:No information available
Vapor density	:No information available
Relative density	:0.987-0.997 g/mL
Solubilities	:No information available
Partition coefficient: n-octanol/water	:No information available
Auto-ignition temperature	:No information available
Decomposition temperature	:No information available
Viscosity	:No information available

10 STABILITY AND REACTIVITY

Reactivity	:No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:Stable under the recommended storage conditions.
Possibility of hazardous reactions	:Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:Heat, flames and sparks.
Incompatible materials	:None known based on information supplied.
Hazardous decomposition products	:Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 TOXICOLOGICAL INFORMATION

Information on the likely routes of exposure	:Dermal contact. Eye contact. Inhalation. Ingestion.
--	--

11.1 Potential acute health effects

Eye contact	:Causes serious eye irritation.
Inhalation	:May cause respiratory irritation.
Skin Contact	:Causes skin irritation. May cause an allergic reaction.
Ingestion	:Irritating to mouth, throat and stomach.

Safety Data Sheet

Prepared according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

6

11.2 Symptoms related to physical, chemical and toxicological characteristics

Eye contact	:Causes irritation with symptoms of reddening, tearing, stinging, and swelling.
Inhalation	:May cause nervous system effects which can include symptoms of dizziness, incoordination, headache, numbness, and/or confusion. May cause respiratory tract irritation with symptoms of coughing, sore throat and runny nose.
Skin Contact	:Causes irritation with symptoms of reddening, itching, and swelling. Once sensitized, an allergic skin reaction may occur with reddening, swelling, and rash when subsequently exposed to very low levels.
Ingestion	:May cause irritation; Symptoms may include abdominal pain, nausea, vomiting, and diarrhea.

11.3 Potential chronic health effects

Short term exposure:

Potential immediate effects Not available.

Long term exposure:

Potential delayed effect :Not available.

General :Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity :No known significant effects or critical hazards.

Mutagenicity :No known significant effects or critical hazards.

Teratogenicity :No known significant effects or critical hazards.

Developmental effects :No known significant effects or critical hazards.

Fertility effects :No known significant effects or critical hazards.

11.4 Information on toxicological effects

This mixture has not been subjected to toxicological testing but has been blended from materials with established toxicological bibliographies. There is no applicable toxicity data available for this mixture.

Acute toxicity:

Product/ingredient name	Result	Species	Dose	Exposure	Test
Ethanol	LD50 Oral	Rat	>5000 mg/kg	-	-
Fragrance	LD50 Oral	<i>estimate</i> [•]	13,614 mg/kg	-	-
Ethanol	LD50 Dermal	Rabbit	>1000 mg/kg	-	-
Fragrance	LD50 Dermal	<i>estimate</i> [•]	20,042 mg/kg	-	-
Ethanol	LC50 Inhalation Vapor	Rat	>1800 mg/l	4 hours	-

[•] Calculated based on chapter 3.1 of GHS document

Irritation/Corrosion:

Product/ingredient name	Result	Species	Score	Exposure	Observation	Reversibility
Ethanol	Skin - Erythema/Eschar	Rabbit	0.33	4 hours	72	-
	Skin - Edema	Rabbit	0	4 hours	72 hours	-
	Eyes - Redness of the conjunctivae	Rabbit	2.11	-	72 hours	-
	Eyes - Edema of the conjunctivae	Rabbit	1.33	-	72 hours	-
	Eyes - Iris lesion	Rabbit	0.44	-	72 hours	-
	Eyes - Cornea opacity	Rabbit	1.11	-	72 hours	-

Sensitization:

Product/ingredient name	Route of exposure	Species	Result
Ethanol	Skin	Guinea pig	Not sensitizing

Chronic Toxicity:

Product/ingredient name	Result	Species	Dose	Exposure
Ethanol	Sub-chronic NOAEL Oral	Rat	10 g/kg	84 days
Guinea pig	3000 ppm	74 days		

Safety Data Sheet

Prepared according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

7

Mutagenicity:

Product/ingredient name	Test	Experiment	Result
Ethanol	Ames test	Experiment: In vitro Subject: Bacteria Metabolic activation: +/-	Negative

Carcinogenicity:

Product/ingredient name	Result	Species	Dose	Exposure
Ethanol	Negative	Rat-Male, Female	-	2 years

Product/ingredient name	CAS #	IARC	NTP	OSHA
Ethanol	64-17-5	Not classified	Not classified	Not classified
Fragrance	NA	Not classified	Not classified	Not classified

Reproductive Toxicity: No known significant effects have been observed or recorded.

Teratogenicity: No known significant effects have been observed or recorded.

Specific target organ toxicity (single exposure):

Name	Category	Route of exposure	Target organs
Ethanol	Category 3	Not applicable	Respiratory tract irritation

12 ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
Ethanol	-	Acute EC50 8900 mg/l	Daphnia - Daphnia magna	48 hours
	-	Acute LC50 4600 mg/l	Fish - Leuciscus idus	96 hours
	-	Chronic EC50 >6500 mg/l	Bacteria - Pseudomonas putida	16 days
	-	Chronic IC50 10000mg/l	Algae - Pseudokirchneriella subcapitata	4 days
Fragrance	No information available.			

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Ethanol	OCED 301B Ready Biodegradability CO ₂ Evolution Test	96.8% - Readily - 15 days	-	Activated sludge
Fragrance	No information available.			

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Ethanol	-	-	Readily
Fragrance	No information available.		

12.3 Bioaccumulation potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Ethanol	-0.32	-	low
Fragrance	No information available.		

12.4 Mobility in soil

Soil/water partition coefficient :Not available
(K_{OC})

Safety Data Sheet

Prepared according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

8




12.5 Other adverse effect

No known significant effects or critical hazards.

13 DISPOSAL CONSIDERATIONS

Disposal methods	:The generation of waste should be avoided or minimized wherever possible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Waste disposal should be in accordance with existing federal state, provincial and or local environmental controls laws.
RCRA classification	:When discarded in its purchased form, this product meets the criteria of ignitability, and should be managed as a hazardous waste (EPA Hazardous Waste Number D001). (40 CFR 261.20-24)

14 TRANSPORT INFORMATION

Regulatory information	UN number	Proper shipping name	Classes	Packing Group	Label	Additional information
DOT Classification	UN1170	Ethanol solutions	3	III		24, B1, IB3, T2, TP1
IMDG Class	UN1170	Ethanol solutions	3	III		Emergency schedule (EMS) F-E, S-D
IARA-DGR Class	UN1170	Ethanol solutions	3	III		Passenger aircraft 355: 60L Cargo aircraft 366: 220L

15 REGULATORY INFORMATION

15.1 US Federal Regulations

SARA 311/312	:Fire hazard
SARA Title III Section 302 Extremely Hazardous Substances	:None
SARA Title III Section 3134 Toxic Chemicals	:None
US EPA CERCLA Hazardous Substances (40 CFR 302.4)	:None
US Toxic Substances Control Act	:Not listed on the TSCA inventory. Pesticides are governed by Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA).

15.2 State regulations

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections on the SDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

California Proposition 65:

This product does not contain any intentionally added reportable Proposition 65 chemicals.

Safety Data Sheet

Prepared according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

9

State Right-to-Know:

Component information

Chemical Name	Volume %	Massachusetts	Minnesota	New Jersey	Pennsylvania
Ethanol	25 - 50	Yes	Yes	Yes (0844)	Yes
Fragrance	≤1.5	-	-	-	-

16 OTHER INFORMATION

Date Prepared: September 21, 2017

Date Revised: April 6, 2018

Hazard Material information system

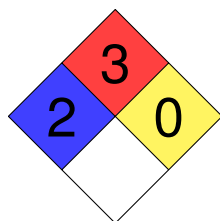
Health	2
Flammability	3
Physical Hazards	0

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

*=Chronic

The customer is responsible for determining the PPE code for this material. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

National Fire Protection Association (U.S.A) :



Health	2
Fire	3
Reactivity	0
Special	-

0= Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

Our method of hazard communication is comprised of Product Labels and Safety Data Sheets. HMIS and NFPA ratings are provided as a customer service.

The information provided on this (M)SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.