SECTION 1: Identification

1.1. Identification
Product form : Mixture
Trade name : Ranger Ready Repellents Tick and Insect Spray

1.2. Recommended use and restrictions on use
Use of the substance/mixture : Insect Repellent (intended to be applied to the skin)

1.3. Supplier
Manufacturer
The PiC20 Group, LLC
155 Woodward Ave #3
Norwalk, CT 06854
(203) 957-3555
info@rangerready.com

1.4. Emergency telephone number
Emergency number : ChemTrec + 1-800-424-9300

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture
GHS-US classification
Flammable liquids Category 2 Highly flammable liquid and vapor
Serious eye damage/eye irritation Category 2 Causes serious eye irritation

2.2. GHS Label elements, including precautionary statements
GHS US labeling
Hazard pictograms (GHS US) :

Signal word (GHS US) : Danger
Hazard statements (GHS US) : Highly flammable liquid and vapor
Causes serious eye irritation
Precautionary statements (GHS US) : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep container tightly closed.
Use explosion-proof electrical, lighting, ventilating equipment
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wash hands thoroughly after handling.
Wear eye protection.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
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 advice/attention.
In case of fire: Use alcohol resistant foam, carbon dioxide (CO2), Dry chemical, Water spray or fog to extinguish.
Store in a well-ventilated place. Keep cool.
Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards which do not result in classification
No additional information available
2.4. **Unknown acute toxicity (GHS US)**

Not applicable

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethanol, ethyl alcohol</td>
<td>(CAS-No.) 64-17-5</td>
<td>29</td>
<td>Flam. Liq. 2, H225, Eye Irrt. 2, H319</td>
</tr>
</tbody>
</table>

Full text of hazard classes and H-statements : see section 16

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

- **First-aid measures general**: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- **First-aid measures after inhalation**: Remove person to fresh air and keep comfortable for breathing.
- **First-aid measures after skin contact**: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- **First-aid measures after ingestion**: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

#### 4.2. Most important symptoms and effects (acute and delayed)

- **Symptoms/effects after inhalation**: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
- **Symptoms/effects after skin contact**: Not expected to present a significant skin hazard under anticipated conditions of normal use.
- **Symptoms/effects after eye contact**: Eye irritation.
- **Symptoms/effects after ingestion**: Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

#### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

- **Unsuitable extinguishing media**: Do not use a heavy water stream.

#### 5.2. Specific hazards arising from the chemical

- **Fire hazard**: Highly flammable liquid and vapor. On combustion, forms: carbon oxides (CO and CO2). Nitrogen oxides.
- **Explosion hazard**: None known

#### 5.3. Special protective equipment and precautions for fire-fighters

- **Firefighting instructions**: Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- **Protection during firefighting**: Do not attempt to take action without suitable protective equipment.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

- **Protective equipment**: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
- **Emergency procedures**: Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with eyes. No open flames, no sparks, and no smoking.

##### 6.1.2. For emergency responders

- **Protective equipment**: Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".
- **Emergency procedures**: Ventilate area.
6.2. Environmental precautions
Avoid release to the environment.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up: Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Notify authorities if product enters sewers or public waters.
Other information: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections
For further information refer to section 8: “Exposure controls/personal protection”. For disposal of residues refer to section 13: “Disposal considerations”.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Provide good ventilation in process area to prevent formation of vapor. Avoid contact with eyes. Wear personal protective equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment.
Hygiene measures: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions: Keep only in the original container in a cool, well ventilated place away from: Incompatible materials. Keep container tightly closed. Keep container closed when not in use.
Incompatible materials: Strong oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Source</th>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>ACGIH TWA (mg/m³)</td>
<td>1884 mg/m³</td>
</tr>
<tr>
<td>ACGIH</td>
<td>ACGIH TWA (ppm)</td>
<td>1000 ppm</td>
</tr>
<tr>
<td>ACGIH</td>
<td>ACGIH STEL (ppm)</td>
<td>1000 ppm</td>
</tr>
<tr>
<td>ACGIH</td>
<td>Remark (ACGIH)</td>
<td>URT irr</td>
</tr>
<tr>
<td>ACGIH</td>
<td>Regulatory reference</td>
<td>ACGIH 2019</td>
</tr>
<tr>
<td>OSHA</td>
<td>OSHA PEL (TWA) (mg/m³)</td>
<td>1900 mg/m³</td>
</tr>
<tr>
<td>OSHA</td>
<td>OSHA PEL (TWA) (ppm)</td>
<td>1000 ppm</td>
</tr>
<tr>
<td>OSHA</td>
<td>Regulatory reference (US-OSHA)</td>
<td>OSHA Annotated Table Z-1</td>
</tr>
<tr>
<td>NIOSH</td>
<td>NIOSH REL (TWA) (mg/m³)</td>
<td>1900 mg/m³</td>
</tr>
<tr>
<td>NIOSH</td>
<td>NIOSH REL (TWA) (ppm)</td>
<td>1000 ppm</td>
</tr>
</tbody>
</table>

8.2. Appropriate engineering controls
Appropriate engineering controls: Ensure good ventilation of the work station.
Environmental exposure controls: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:
Not required for normal conditions of use

Eye protection:
Safety glasses with side shields

Skin and body protection:
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Not required for normal conditions of use

Respiratory protection:
Not required for normal conditions of use

Other information:
Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid
Appearance: Clear.
Color: Colorless Pale yellow
Odor: characteristic
Odor threshold: No data available
pH: 7 - 9
Melting point: No data available
Freezing point: No data available
Boiling point: No data available
Flash point: 28 °C
Relative evaporation rate (butyl acetate=1): No data available
Flammability (solid, gas): Not applicable
Vapor pressure: No data available
Relative vapor density at 20 °C: No data available
Relative density: No data available
Specific gravity / density: 0.987 - 0.997 g/ml
Solubility: No data available
Log Pow: No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Viscosity, kinematic: No data available
Viscosity, dynamic: No data available
Explosion limits: No data available
Explosive properties: No data available
Oxidizing properties: No data available

9.2. Other information
No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity
Highly flammable liquid and vapor.

10.2. Chemical stability
The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions
Not known.

10.4. Conditions to avoid
Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials
Strong oxidizing agents.

10.6. Hazardous decomposition products
No hazardous decomposition products known at room temperature. On combustion, forms: carbon oxides (CO and CO2). Nitrogen oxides.
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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 11: Toxicological information

11.1. Information on toxicological effects

- **Acute toxicity (oral)**: Not classified (Based on available data, the classification criteria are not met)
- **Acute toxicity (dermal)**: Not classified (Based on available data, the classification criteria are not met)
- **Acute toxicity (inhalation)**: Not classified (Based on available data, the classification criteria are not met)
- **Skin corrosion/irritation**: Not classified (Based on available data, the classification criteria are not met)
- **Serious eye damage/irritation**: Causes serious eye irritation.
  - **pH**: 7 - 9
- **Respiratory or skin sensitization**: Not classified (Based on available data, the classification criteria are not met)
- **Germ cell mutagenicity**: Not classified (Based on available data, the classification criteria are not met)
- **Reproductive toxicity**: Not classified (Based on available data, the classification criteria are not met)
- **Specific target organ toxicity – single exposure**: Not classified (Based on available data, the classification criteria are not met)
- **Specific target organ toxicity – repeated exposure**: Not classified (Based on available data, the classification criteria are not met)
- **Aspiration hazard**: Not classified (Based on available data, the classification criteria are not met)
- **Viscosity, kinematic**: No data available
- **Symptoms/effects after inhalation**: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
- **Symptoms/effects after skin contact**: Not expected to present a significant skin hazard under anticipated conditions of normal use.
- **Symptoms/effects after eye contact**: Eye irritation.
- **Symptoms/effects after ingestion**: Not expected to present a significant ingestion hazard under anticipated conditions of normal use.
- **Other information**: Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general: This material has not been tested for environmental effects.

12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>Ranger Ready Repellents Tick and Insect Spray</th>
<th>Persistence and degradability</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not established.</td>
</tr>
</tbody>
</table>

12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Ranger Ready Repellents Tick and Insect Spray</th>
<th>Bioaccumulative potential</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not established.</td>
</tr>
</tbody>
</table>

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

- **Effect on the ozone layer**: No additional information available
- **Other information**: Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

- **Waste treatment methods**: Dispose of contents/container in accordance with licensed collector's sorting instructions.
- **Product/Packaging disposal recommendations**: Dispose in a safe manner in accordance with local/national regulations.
- **Additional information**: Flammable vapors may accumulate in the container.
- **Ecology - waste materials**: Avoid release to the environment.
**Ranger Ready Repellents Tick and Insect Spray**

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across Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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**SECTION 14: Transport information**

**Department of Transportation (DOT)**

In accordance with DOT

Transport document description: UN1170 Ethyl alcohol solutions, 3, III

UN-No. (DOT): UN1170

Proper Shipping Name (DOT): Ethyl alcohol solutions

Class (DOT): 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Packing group (DOT): III - Minor Danger

Hazard labels (DOT): 3 - Flammable liquid

**DOT Packaging Non Bulk (49 CFR 173.xxx)**: 203

**DOT Packaging Bulk (49 CFR 173.xxx)**: 242

**DOT Special Provisions (49 CFR 172.102)**: 24 - Alcoholic beverages containing more than 70 percent alcohol by volume must be transported as materials in Packing Group II. Alcoholic beverages containing more than 24 percent but not more than 70 percent alcohol by volume must be transported as materials in Packing Group III.

B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable.

IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).

T2 - 1.5 178.274(d)(2) Normal............. 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

DOT Packaging Exceptions (49 CFR 173.xxx): 4b, 150

**DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)**: 60 L

**DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)**: 220 L

**DOT Vessel Stowage Location**: A - The material may be stowed “on deck” or “under deck” on a cargo vessel and on a passenger vessel.

**Emergency Response Guide (ERG) Number**: 127

**Other information**: No supplementary information available.

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**Transportation of Dangerous Goods**

Transport document description: UN1170 ETHANOL SOLUTION, 3, III

**UN-No. (TDG)**: UN1170

**Proper Shipping Name (Transportation of Dangerous Goods)**: ETHANOL SOLUTION

**TDG Primary Hazard Classes**: 3 - Class 3 - Flammable Liquids

**Packing group**: III - Minor Danger

**TDG Special Provisions**: 150 - An emergency response assistance plan (ERAP) is required for these dangerous goods under subsection 7.1(6) of Part 7 (Emergency Response Assistance Plan).

**Explosive Limit and Limited Quantity Index**: 5 L

**Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index**: 60 L

**Transport by sea**

Transport document description (IMDG): UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, III
Ranger Ready Repellents Tick and Insect Spray
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UN-No. (IMDG) : 1170
Proper Shipping Name (IMDG) : ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
Class (IMDG) : 3 - Flammable liquids
Packing group (IMDG) : III - substances presenting low danger
Limited quantities (IMDG) : 5 L

Air transport

Transport document description (IATA) : UN 1170 Ethanol solution, 3, III
UN-No. (IATA) : 1170
Proper Shipping Name (IATA) : Ethanol solution
Class (IATA) : 3 - Flammable Liquids
Packing group (IATA) : III - Minor Danger

SECTION 15: Regulatory information

15.1. US Federal regulations
ethanol, ethyl alcohol (64-17-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations
CANADA
ethanol, ethyl alcohol (64-17-5)
Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations
ethanol, ethyl alcohol (64-17-5)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations
ethanol, ethyl alcohol (64-17-5)
Listed on IARC (International Agency for Research on Cancer)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECS (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations
No additional information available

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 16 July 2019
Other information : None.

Full text of H-phrases:

<table>
<thead>
<tr>
<th>H225</th>
<th>Highly flammable liquid and vapor</th>
</tr>
</thead>
<tbody>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
</tbody>
</table>

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.