Section 1: Product & Company Identification

Product Name: CRC® Insect Repellent

Product Number (s): 14011

Product Use: Insect repellent

Manufacturer / Supplier Contact Information:
In United States: CRC Industries, Inc.
885 Louis Drive
Warminster, PA 18974
www.crcindustries.com
1-215-674-4300 (General)
(800) 521-3168 (Technical)
(800) 272-4620 (Customer Service)
www.crcindustries.com

In Canada: CRC Canada Co.
2-1246 Lorimar Drive
Mississauga, Ontario L5S 1R2
www.crc-canada.ca
1-905-670-2291

In Mexico: CRC Industries Mexico
Av. Benito Juárez 4055 G
Colonia Orquidea
San Luis Potosí, SLP CP 78394
www.crc-mexico.com
52-444-824-1666

24-Hr Emergency – CHEMTREC: (800) 424-9300 or (703) 527-3887

Section 2: Hazards Identification

Emergency Overview

Appearance & Odor: Clear, colorless liquid; mild alcohol odor

Potential Health Effects:

ACUTE EFFECTS:
EYE: Causes substantial but temporary eye injury.
SKIN: May cause skin reaction in rare cases. No harmful effects are expected from skin absorption.
INHALATION: Excessive inhalation of mist can cause nasal and respiratory irritation.
INGESTION: Harmful if swallowed.

CHRONIC EFFECTS: None known

TARGET ORGANS: None known

Medical Conditions Aggravated by Exposure: Pre-existing skin conditions may be aggravated by exposure.

See Section 11 for toxicology and carcinogenicity information on product ingredients.
Section 3: Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>CAS NUMBER</th>
<th>% by Wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEET (N,N-Diethyl-M-Toluamide)</td>
<td>134-62-3</td>
<td>25.0</td>
</tr>
<tr>
<td>N-Octyl Bicycloheptene Dicarboximide</td>
<td>113-48-4</td>
<td>5.0</td>
</tr>
<tr>
<td>Di-n-Propyl Isocinchomeronate</td>
<td>136-45-8</td>
<td>2.5</td>
</tr>
<tr>
<td>Isopropyl Alcohol</td>
<td>67-63-0</td>
<td>30 - 40</td>
</tr>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Liquefied Petroleum Gas</td>
<td>68476-86-8</td>
<td>20 - 30</td>
</tr>
</tbody>
</table>

Section 4: First Aid Measures

Eye Contact: Immediately flush with plenty of water for 15 minutes. Call a physician if irritation persists.

Skin Contact: Remove contaminated clothing and wash affected area with soap and water. Call a physician if irritation persists. Wash contaminated clothing prior to re-use.

Inhalation: Remove person to fresh air. Keep person calm. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Call a physician.

Ingestion: If swallowed, call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless directed by a poison control center or doctor. Never give anything by mouth to an unconscious person.

Note to Physicians: None

Section 5: Fire-Fighting Measures

Flammable Properties: This product is flammable in accordance with aerosol flammability definitions. (See 16 CFR 1500.3(c)(6))

Flash Point: 75°F (TCC)  Upper Explosive Limit: NE
Autoignition Temperature: NE  Lower Explosive Limit: NE

Fire and Explosion Data:

Suitable Extinguishing Media: Foam, carbon dioxide or dry chemical; class B fire extinguishers

Products of Combustion: Carbon dioxide, carbon monoxide, nitrogen oxides

Explosion Hazards: Aerosol containers, when exposed to heat from fire, may build pressure and explode. Vapors may accumulate in a confined space an create a flammable atmosphere.

Protection of Fire-Fighters: Firefighters should wear self-contained, NIOSH-approved breathing apparatus for protection against suffocation and possible toxic decomposition products. Proper eye and skin protection should be provided. Use water spray to keep fire-exposed containers cool and to knock down vapors which may result from product decomposition.

Section 6: Accidental Release Measures

Personal Precautions: Use personal protection recommended in Section 8.
Environmental Precautions: Take precautions to prevent contamination of ground and surface waters. Do not flush into sewers or storm drains.

Methods for Containment & Clean-up: Eliminate sources of ignition. Dike area to contain spill. Ventilate the area with fresh air. If in confined space or limited air circulation area, clean-up workers should wear appropriate respiratory protection. Recover or absorb spilled material using an absorbent designed for chemical spills. Place used absorbents into proper waste containers.

Section 7: Handling and Storage

Handling Procedures: Do not use near sources of ignition. Use only at normal room temperatures. Do not spray towards face. Do not puncture or incinerate can. Use with proper ventilation. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. For product use instructions, please see the product label.

Storage Procedures: Store in a cool dry area out of direct sunlight. Aerosol cans must be maintained below 120 F to prevent cans from rupturing.

Aerosol Storage Level: III

Section 8: Exposure Controls/ Personal Protection

Exposure Guidelines:

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>OSHA TWA</th>
<th>OSHA STEL</th>
<th>ACGIH TWA</th>
<th>ACGIH STEL</th>
<th>OTHER TWA</th>
<th>SOURCE</th>
<th>UNIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEET (N,N-Diethyl-M-Toluamide)</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>N-Octyl Dicycloheptene Dicarboximide</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Di-N-Propyl Isocinchomeronate</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Isopropyl Alcohol</td>
<td>400</td>
<td>500(v)</td>
<td>200</td>
<td>400</td>
<td>NE</td>
<td></td>
<td>ppm</td>
</tr>
<tr>
<td>Acetone</td>
<td>1000</td>
<td>NE</td>
<td>1000</td>
<td>750</td>
<td>NE</td>
<td></td>
<td>ppm</td>
</tr>
<tr>
<td>Liquefied Petroleum Gas</td>
<td>1000</td>
<td>NE</td>
<td>1000</td>
<td>NE</td>
<td>NE</td>
<td></td>
<td>ppm</td>
</tr>
</tbody>
</table>

N.E. – Not Established   (c) – ceiling   (s) – skin   (v) – vacated

Controls and Protection:

Engineering Controls: Area should have ventilation to provide fresh air. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at the source, preventing dispersion into the general work area. Use mechanical means if necessary to maintain vapor levels below the exposure guidelines. If working in a confined space, follow applicable OSHA regulations.

Respiratory Protection: None required for normal work where adequate ventilation is provided. Air monitoring is needed to determine actual employee exposure levels. Use NIOSH-approved self-contained positive pressure respirators in low circulation areas and for emergencies.

Eye/face Protection: For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

Skin Protection: Use protective gloves such as nitrile or Viton. Also, use full protective clothing if there is prolonged or repeated contact of liquid with skin.
Section 9: Physical and Chemical Properties

Physical State: liquid
Color: clear, colorless
Odor: mild alcohol
Odor Threshold: ND
Specific Gravity: 0.8814
Initial Boiling Point: ND
Freezing Point: ND
Vapor Pressure: ND
Vapor Density: > 1 (air = 1)
Evaporation Rate: ND
Solubility: immiscible in water
Coefficient of water/oil distribution: ND
pH: NA
Volatile Organic Compounds: wt %: 64.9 g/L: 572 lbs./gal: 4.76

Section 10: Stability and Reactivity

Stability: Stable
Conditions to Avoid: Do not store near open flame or in high temperature areas.
Incompatible Materials: Extreme acid or alkaline conditions may cause this product to breakdown. Contact with strong oxidizers may cause an explosive situation.
Hazardous Decomposition Products: Carbon dioxide, carbon monoxide, nitrogen oxide
Possibility of Hazardous Reactions: No

Section 11: Toxicological Information

Long-term toxicological studies have not been conducted for this product. The following information is available for components of this product.

Acute Toxicity:

<table>
<thead>
<tr>
<th>Component</th>
<th>Oral LD50 (rat)</th>
<th>Dermal LD50 (rabbit)</th>
<th>Inhalation LC50 (rat)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEET (N,N-Diethyl-M-Toluamide)</td>
<td>1800 mg/kg</td>
<td>3180 µL/kg</td>
<td>5950 mg/m³</td>
</tr>
<tr>
<td>N-Octyl Dicycloheptene Dicarboximide</td>
<td>2800 mg/kg</td>
<td>470 mg/kg</td>
<td>No data</td>
</tr>
<tr>
<td>Di-N-Propyl Isocinchomeronate</td>
<td>5230 mg/kg</td>
<td>9500 mg/kg</td>
<td>No data</td>
</tr>
<tr>
<td>Isopropyl Alcohol</td>
<td>5000 mg/kg</td>
<td>12,800 mg/kg</td>
<td>16,000 ppm/8H</td>
</tr>
<tr>
<td>Acetone</td>
<td>5800 mg/kg</td>
<td>No data</td>
<td>50,100 mg/m³/8H</td>
</tr>
<tr>
<td>Liquefied Petroleum Gas</td>
<td>No data</td>
<td>No data</td>
<td>No data</td>
</tr>
</tbody>
</table>
### Chronic Toxicity:

<table>
<thead>
<tr>
<th>Component</th>
<th>OSHA Carcinogen</th>
<th>IARC Carcinogen</th>
<th>NTP Carcinogen</th>
<th>Irritant</th>
<th>Sensitizer</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEET (N,N-Diethyl-M-Toluamide)</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>E (moderate) / S (moderate) / R (mild)</td>
<td>Yes</td>
</tr>
<tr>
<td>N-Octyl Dicycloheptene Dicarbosimide</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Unknown</td>
<td>Unknown</td>
</tr>
<tr>
<td>Di-N-Propyl Isocinchomeronate</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Unknown</td>
<td>Unknown</td>
</tr>
<tr>
<td>Isopropyl Alcohol</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>E (moderate) / S (moderate) / R (mild)</td>
<td>No</td>
</tr>
<tr>
<td>Acetone</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>E (moderate) / S (moderate) / R (mild)</td>
<td>Yes</td>
</tr>
<tr>
<td>Liquefied Petroleum Gas</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Reproductive Toxicity: No information available  
Teratogenicity: No information available  
Mutagenicity: No information available  
Synergistic Effects: No information available

### Section 12: Ecological Information

Ecological studies have not been conducted for this product. The following information is available for components of this product.

Ecotoxicity: N-N-Diethyl-M-Toluamide: 96Hr LC50 Fathead Minnow: 110 mg/L  
5 min EC50 Photobacterium phosphoreum: 67.9 mg/L

Persistence / Degradability: No information available  
Bioaccumulation / Accumulation: No information available  
Mobility in Environment: No information available

### Section 13: Disposal Considerations

Waste Classification: The dispensed liquid product is a RCRA hazardous waste for the characteristic of ignitability with a waste code of D001. Pressurized containers are a D003 reactive waste. (See 40 CFR Part 261.20 – 261.33)  
Empty aerosol containers may be recycled.

All disposal activities must comply with federal, state, provincial and local regulations. Local regulations may be more stringent than state, provincial or national requirements.

### Section 14: Transport Information

US DOT (ground): Consumer Commodity, ORM-D  
ICAO/IATA (air): Consumer Commodity, ID8000, 9  
IMO/IMDG (water): Aerosols, UN1950, 2.1, Limited Quantity  
Special Provisions: None
Product Name: CRC® Insect Repellent

Section 15: Regulatory Information

U.S. Federal Regulations:

Toxic Substances Control Act (TSCA):
   All ingredients are either listed on the TSCA inventory or are exempt.

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):
   Reportable Quantities (RQ's) exist for the following ingredients: Acetone (5000 lbs)

   Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

Superfund Amendments Reauthorization Act (SARA) Title III:
   Section 302 Extremely Hazardous Substances (EHS): None

   Section 311/312 Hazard Categories:
      Fire Hazard Yes
      Reactive Hazard No
      Release of Pressure Yes
      Acute Health Hazard Yes
      Chronic Health Hazard No

   Section 313 Toxic Chemicals: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:
      Di-N-Propyl Isocinchomeronate (2.5%)

Clean Air Act:
   Section 112 Hazardous Air Pollutants (HAPs): None

Occupational Safety and Health Administration:
   This product is regulated by the Hazard Communications Standard.

U.S. State Regulations:

California Safe Drinking Water and Toxic Enforcement Act (Prop 65):
   This product may contain the following chemicals known to the state of California to cause cancer, birth defects or other reproductive harm: Di-N-Propyl Isocinchomeronate

Consumer Products VOC Regulations: In states with Consumer Products VOC regulations, this product is compliant as an Insect Repellent.

State Right to Know:
   New Jersey: 68476-86-8
   Pennsylvania: 67-63-0, 68476-86-8
   Massachusetts: 67-63-0, 68476-86-8
   Rhode Island: 67-63-0, 68476-86-8

Canadian Regulations:

Controlled Products Regulations:
   This product has been classified in accordance with the hazard criteria of the Controlled Product Regulation and the MSDS contains all the information required by the Controlled Products Regulations.

   WHMIS Hazard Class: This product is cannot be sold for use in Canada.

Canadian DSL Inventory: All ingredients are either listed on the DSL Inventory or are exempt.
European Union Regulations:


Additional Regulatory Information: EPA Registration Number: 51147-13-55809. This product is registered in all 50 United States and Puerto Rico. CRC Insect Repellent is not registered and cannot be sold outside of the United States and Puerto Rico.

Section 16: Other Information

<table>
<thead>
<tr>
<th>HMIS® (II)</th>
<th>NFPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health:</td>
<td>1</td>
</tr>
<tr>
<td>Flammability:</td>
<td>4</td>
</tr>
<tr>
<td>Reactivity:</td>
<td>0</td>
</tr>
<tr>
<td>PPE:</td>
<td>B</td>
</tr>
</tbody>
</table>

Ratings range from 0 (no hazard) to 4 (severe hazard)

Prepared By: Michelle Rudnick
CRC #: 926
Revision Date: 09/09/2010

Changes since last revision: MSDS reformatted to meet the requirements of the Canadian Controlled Products Regulations.

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this MSDS consult your supervisor, a health & safety professional, or CRC Industries.

ACGIH: American Conference of Governmental Industrial Hygienists
CAS: Chemical Abstract Service
CFR: Code of Federal Regulations
DOT: Department of Transportation
DSL: Domestic Substance List
g/L: grams per Liter
HMIS: Hazardous Materials Identification System
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
IMDG: International Maritime Dangerous Goods
IMO: International Maritime Organization
lbs./gal: pounds per gallon
LC: Lethal Concentration
LD: Lethal Dose

NA: Not Applicable
ND: Not Determined
NIOSH: National Institute of Occupational Safety & Health
NFPA: National Fire Protection Association
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration
PMCC: Pensky-Martens Closed Cup
PPE: Personal Protection Equipment
ppm: Parts per Million
RoHS: Restriction of Hazardous Substances
STEL: Short Term Exposure Limit
TCC: Tag Closed Cup
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Materials Information System