



# Material Safety Data Sheet

## Section 1: Product & Company Identification

**Product Name:** Double Strength Insect Repellent

**Product Number (s):** 14011

**Manufactured By:**

CRC Industries, Inc.  
885 Louis Drive  
Warminster, PA 18974  
[www.crcindustries.com](http://www.crcindustries.com)

|                            |                |
|----------------------------|----------------|
| General Information        | (215) 674-4300 |
| Technical Assistance       | (800) 521-3168 |
| Customer Service           | (800) 272-4620 |
| 24-Hr Emergency (CHEMTREC) | (800) 424-9300 |

## Section 2: Hazards Identification

### Emergency Overview

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

### CAUTION

Harmful if swallowed. May cause eye irritation. Flammable.  
Contents under pressure.

As defined by OSHA's Hazard Communication Standard, this product is hazardous.

### Potential Health Effects:

**EYE:** May cause severe irritation and may cause possible permanent damage.

**SKIN:** May cause mild skin irritation or skin reddening on persons with sensitive skin.

**INHALATION:** Contains materials which may irritate the nose, throat, and respiratory tract.

**INGESTION:** Amounts transferred to the mouth by fingers, etc., during normal operations should not cause injury.

**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**

| COMPONENT                            | CAS NUMBER | % by Wt. |
|--------------------------------------|------------|----------|
| N,N-Diethyl-M-Toluamide (DEET)       | 134-62-3   | 28.76    |
| Di-N-Propyl Isocinchomerate          | 136-45-8   | 1.92     |
| N-Octyl Bicycloheptene Dicarboximide | 113-48-4   | 7.67     |
| Isopropyl Alcohol                    | 67-63-0    | < 32.0   |
| Isobutane                            | 75-28-5    | < 25.5   |
| Propane                              | 74-98-6    | < 4.5    |

**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: Give two glasses of water to affected person and consult a physician. Do not induce vomiting or 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 (16 CFR 1500.3(c)(6) ).

|                           |               |                        |    |
|---------------------------|---------------|------------------------|----|
| Flash Point:              | < 70° F (TCC) | Upper Explosive Limit: | NE |
| Autoignition Temperature: | NE            | Lower Explosive Limit: | NE |

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

Products of Combustion: carbon dioxide, carbon monoxide, water

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: 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.

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:

| COMPONENT  | OSHA |        | ACGIH |      | OTHER |            | UNIT |
|--|------|--------|-------|------|-------|------------|------|
|  | TWA  | STEL   | TWA   | STEL | TWA   | SOURC<br>E |      |
| N,N-Diethyl-M-Toluamide (DEET)   | NE   | NE     | NE    | NE   | NE    | NE         |      |
| Di-N-Propyl Isocinchomeronate  | NE   | NE     | NE    | NE   | NE    | NE         |      |
| N-Octyl Dicycloheptene Dicarboximide   | NE   | NE     | NE    | NE   | NE    | NE         |      |
| Isopropyl Alcohol  | 400  | 500(v) | 200   | 400  | 400   | NIOSH      | ppm  |
| Isobutane  | NE   | NE     | 1000  | NE   | 800   | NIOSH      | ppm  |
| Propane  | 1000 | NE     | 1000  | NE   | 1000  | NIOSH      | ppm  |
| N.E. – Not Established      (c) – ceiling      (s) – skin      (v) – vacated |      |        |       |      |       |            |      |

Engineering Controls: Area should have ventilation to provide fresh air. Use local exhaust to prevent accumulation of vapors. 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. 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 aromatic  
 Specific Gravity: 0.89 – 0.91  
 Initial Boiling Point: NE  
 Freezing Point: NE  
 Vapor Pressure: < 0.01 mmHg @ 25° C  
 Vapor Density: NE (air = 1)  
 Evaporation Rate: NE (ether = 1)  
 Solubility: Insoluble in water  
 pH: NA  
 Volatile Organic Compounds: wt %: 61.5 g/L: NE lbs./gal: NE

**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, water  
 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 EFFECTS**

| <u>Component</u>                     | <u>Test</u> | <u>Result</u> | <u>Route</u> | <u>Species</u> |
|--------------------------------------|-------------|---------------|--------------|----------------|
| N-N-Diethyl-M-Toluamide              | LD50        | 10 g/kg       | dermal       | rabbit         |
| N-N-Diethyl-M-Toluamide              | LD50        | 1.95 g/kg     | oral         | rat            |
| N-N-Diethyl-M-Toluamide              | LD50        | 1.17 g/kg     | oral         | mouse          |
| N-Octyl Dicycloheptene Dicarboximide | LD50        | 470 mg/kg     | dermal       | rabbit         |

**CHRONIC EFFECTS****Carcinogenicity:**

|       | <u>Component</u> | <u>Result</u> |
|-------|------------------|---------------|
| OSHA: | None listed      |               |
| IARC: | None listed      |               |
| NTP:  | None listed      |               |

Mutagenicity: Unknown

Other: None

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**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: Unknown  
Bioaccumulation / Accumulation: Unknown  
Mobility in Environment: Unknown

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**Section 13: Disposal Considerations**

Disposal: This material is a D001 flammable hazardous waste. Full or partial full containers should be punctured and drained, and the liquid should be managed as hazardous waste. Empty containers may be recycled or discarded.

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

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**Section 14: Transport Information**

Proper shipping description:

US DOT (ground): Consumer Commodity, ORM-D

Special Provisions: None

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**Section 15: Regulatory Information**

**U.S. Federal**

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: None

**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 | No  |

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 Isocinchomerate

**Clean Air Act:**

Section 112 Hazardous Air Pollutants (HAPs): None

**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 Isocinchomerate

**State Right to Know:**

New Jersey: Isobutane, Propane  
Pennsylvania: Isopropyl alcohol, Isobutane, Propane  
Massachusetts: Isopropyl alcohol, Isobutane, Propane  
Rhode Island : Isopropyl alcohol, Propane

**Additional Regulatory Information:** EPA Registration Number: 11715-85-55809

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**Section 16: Other Information**

NFPA: Health: 1 Flammability: 4 Reactivity: 0  
HMIS: Health: 1 Flammability: 4 Reactivity: 0 PPE: B

Prepared By: Michelle Milburn  
CRC #: 14011  
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Changes since last revision: MSDS reformatted in accordance with ANSI Z400.1-2004

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.

|       |  |           |                           |
|-------|--|-----------|---------------------------|
| CAS:  | Chemical Abstract Service                                  | NA:       | Not Applicable            |
| ppm:  | Parts per Million  | ND:       | Not Determined            |
| TCC:  | Tag Closed Cup   | NE:       | Not Established           |
| PMCC: | Pensky-Martens Closed Cup                                  | g/L:      | grams per Liter           |
| PPE:  | Personal Protection Equipment                              | lbs./gal: | pounds per gallon         |
| TWA:  | Time Weighted Average                                      | STEL:     | Short Term Exposure Limit |
| OSHA: | Occupational Safety and Health Administration              |           |                           |
| ACGIH | American Association of Governmental Industrial Hygienists |           |                           |
| NIOSH | National Institute of Occupational Safety & Health         |           |                           |