# **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: In Canada: In Mexico:

CRC Industries, Inc.

CRC Canada Co.

CRC Industries Mexico

Av. Benito Juárez 4055 G

Warminster, PA 18974 Mississauga, Ontario L5S 1R2 Colonia Orquídea

<u>www.crcindustries.com</u> <u>www.crc-canada.ca</u> San Luís Potosí, SLP CP 78394 1-215-674-4300(General) 1-905-670-2291 <u>www.crc-mexico.com</u>

1-215-674-4300(General) 1-905-670-2291 (800) 521-3168 (Technical)

(800) 272-4620 (Customer Service)

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

### **Section 2: Hazards Identification**

#### **Emergency Overview**

52-444-824-1666

**CAUTION:** Harmful if Swallowed. May Cause Eye Irritation. Flammable. Contents Under Pressure.

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.

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# Section 3: Composition/Information on Ingredients

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

### **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)

Autoignition Temperature: NE

Upper Explosive Limit: 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.

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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:**

	05	SHA	AC	GIH	0	THER	
COMPONENT	TWA	STEL	TWA	STEL	TWA	SOURCE	UNIT
DEET (N,N-Diethyl-M-Toluamide)	NE	NE	NE	NE	NE		
N-Octyl Dicycloheptene Dicarboximide	NE	NE	NE	NE	NE		
Di-N-Propyl Isocinchomeronate	NE	NE	NE	NE	NE		
Isopropyl Alcohol	400	500(v)	200	400	NE		ppm
Acetone	1000	NE	500	750	NE		ppm
Liquefied Petroleum Gas	1000	NE	1000	NE	NE		ppm
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:

<u>Component</u>	Oral LD50 (rat)	Dermal LD50 (rabbit)	<u>Inhalation LC50</u> (rat)
DEET (N,N-Diethyl-M-Toluamide)	1800 mg/kg	3180 µL/kg	5950 mg/m <sup>3</sup>
N-Octyl Dicycloheptene Dicarboximide	2800 mg/kg	470 mg/kg	No data
Di-N-Propyl Isocinchomeronate	5230 mg/kg	9500 mg/kg	No data
Isopropyl Alcohol	5000 mg/kg	12,800 mg/kg	16,000 ppm/8H
Acetone	5800 mg/kg	No data	50,100 mg/m <sup>3</sup> /8H
Liquefied Petroleum Gas	No data	No data	No data

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#### **Chronic Toxicity:**

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

	0 01:	D D
E – Eye	S – Skin	R - Respiratory
	3 – 3KIII	r - respira

Reproductive Toxicity: No information available 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 No information available No information available

# Section 13: Disposal Considerations

<u>Waste Classification</u>: 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

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# 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:**

RoHS Compliance: This product is compliant with Directive 2002/95/EC of the European Parliament and of the

Council of 27 January 2003. This product does not contain any of the restricted substances as

listed in Article 4(1) of the RoHS Directive.

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**

HMIS® (II)				
Health:	1			
Flammability:	4			
Reactivity:	0			
PPE:	В			

NFPA 4 0

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