

# MATERIAL SAFETY DATA SHEET



Cardinal Professional Products  
P.O. Box 782  
Hollister, CA 95024

## 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

**PRODUCT CODE:** EPA REG. NO.: 8536-32  
**PRODUCT NAME:** CARDINAL Premium Grade Concentrated NE 10-1 Insecticide  
**PRODUCT DESCRIPTION:** Botanical insecticide concentrate for space and contact spraying.  
**CHEMICAL NAME:** Mixture  
**SYNONYMS:**  
**MANUFACTURER:** CARDINAL PROFESSIONAL PRODUCTS  
**TELEPHONE M-F, 8:00-4:30 PDT** (800) 548-2223  
**MSDS & Product Information, 8:00-4:30 PDT:** (800) 548-2223, (831) 637-0195X3024

<b>24 HOUR EMERGENCY PHONE (INFOTRAC) U.S. and CANADA:</b>	(800)-535-5053	<b>INFOTRAC (ALL OTHER AREAS):</b>	(800) 535-5053
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For information regarding **MEDICAL EMERGENCIES** or **PESTICIDE INCIDENTS**, call the **INTERNATIONAL POISON Center** at: **1-888-740-8712**

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT(s)	CAS #	EINECS	EXPOSURE LIMITS	% BY WT.
Resmethrin (5-Benzyl-3-Furyl Methyl 2,2-Dimethyl-3(2-Methylpropenyl)Cyclopropane-carboxylate Resmethrin (SBP-1382) Cis/trans ratio: max 30% (+-) Cis and min 70% (+-) trans, U.S. Patent No. 3,465,007, Roussel Bio Corporation Related compounds	10453-86-8	Not available	Not established	1.00
Aromatic petroleum hydrocarbons	Not available	Not available	Not available	1.324
Inert ingredients	Not available	Not available	Not available	0.040
Petroleum Distillates	8052-41-3	Not available	OSHA PEL 500ppm TWA	97.50

PEL = Permissible Exposure Limits.  
TLV = Threshold Limit Value.

TWA = Time Weighted Average (8 hr).  
STEL = Short Term Exposure Limit (15 min.).

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## 3. HAZARDS IDENTIFICATION

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### POTENTIAL HEALTH EFFECTS: EMERGENCY OVERVIEW

**CAUTION: OSHA and DOT COMBUSTIBLE LIQUID.** DO NOT use or store near heat, sparks, open flame, or any other ignition sources. Harmful if swallowed, inhaled, or absorbed through the skin. Contains petroleum distillates; DO NOT induce vomiting due to aspiration pneumonia hazard. Avoid contact with skin, eyes, and clothing. Avoid breathing vapors or spray mists of this product. Wear a pesticide respirator which is jointly approved by the Mining Enforcement and Safety Administration and the National Institute for Occupational Safety and Health, under the provisions of 30 CFR Part II.

**EYES:** May cause eye irritation. Take prudent precautions to avoid contact with eyes.

**SKIN:** Harmful if absorbed through the skin.

**INGESTION:** Harmful if swallowed.

**INHALATION:** Harmful if inhaled.

**CHRONIC** None known.

**EFFECTS:**

**ECOLOGICAL:** See Section's 12 and 15.

**TOXICOLOGICAL:** See Section 11.

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## 4. FIRST AID MEASURES

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### FIRST AID PROCEDURES:

**EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**SKIN:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**INHALATION:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

**INGESTION:** Immediately call a poison control center or doctor for treatment advice. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

**NOTE TO PHYSICIANS:** Vomiting may pose an aspiration pneumonia hazard.

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## 5. FIRE FIGHTING MEASURES

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### FLAMMABLE PROPERTIES:

**FLASH** 116 °F 46.7 °C **METHOD:** TAG Closed Cup

### POINT:

This product is classified as an **OSHA and DOT COMBUSTIBLE LIQUID**.

### FLAMMABLE LIMITS:

LOWER FLAMMABLE LIMIT: not established.

### LIMIT:

UPPER FLAMMABLE LIMIT: not established.

### LIMIT:

**AUTOIGNITION TEMPERATURE:** not established.

### SENSITIVE STATIC DISCHARGE:

Yes, use proper bonding and/ or grounding procedures.

### HAZARDOUS COMBUSTION PRODUCTS:

This product is classified as combustible, and under fire conditions it may decompose to give off toxic gases such as carbon monoxide, carbon dioxide.

### EXTINGUISHING MEDIA:

Foam, carbon dioxide, or dry chemical.

### FIRE FIGHTING INSTRUCTIONS:

Treat as an oil fire. Use a full-faced self-contained breathing apparatus along with full protective gear. Keep nearby containers and equipment cool with a water stream. Contain the run-off, if possible, for proper disposal.

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## 6. ACCIDENTAL RELEASE MEASURES:

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### SMALL SPILL:

Shut off ignition sources. Stop release, if possible without risk. Dike or contain release, if possible, and if immediate response can prevent further damage or danger. Isolate and control access to the release area. Take actions to reduce vapors. Absorb with appropriate absorbent. Clean spill area of residues and absorbent.

### LARGE SPILL:

Shut off ignition sources. Stop release, if possible without risk. Dike or contain release, if possible, and if immediate response can prevent further damage or danger. Isolate and control access to the release area. Take actions to reduce vapors. Collect product into drums, etc. via drains, pumps, etc. Absorb with appropriate absorbent. Clean spill area of residues and absorbent

### WASTE DISPOSAL METHOD:

Contaminated absorbent and wash water should be disposed of according to local, state and federal regulations.

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## 7. HANDLING AND STORAGE

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**GENERAL PROCEDURES:** DO NOT USE THIS PRODUCT IN OR ON ELECTRICAL EQUIPMENT DUE TO POSSIBILITY OF SHOCK HAZARD.

**HANDLING:** Take prudent precautions to avoid contact with skin, eyes and clothing. Take prudent precautions to avoid breathing vapors and/ or spray mists of this product. Wear a pesticide respirator which is jointly approved by the Mining Enforcement and Safety Administration and the National Institute for Occupational Safety and Health, under the provisions of 30 CFR Part II. Mechanical ventilation should be used when handling this product in enclosed spaces. Do not contaminate water, food or feedstuffs by storage, handling or disposal. Read and observe all precautions and instructions on the label.

**STORAGE:** Store containers upright and closed. Store in areas that are cool, dry and well-ventilated. Keep away from heat, open flame, ignition sources, and strong oxidizers. Emptied containers may retain product residues.

**KEEP OUT OF REACH OF CHILDREN.**

**WORK HYGIENIC PRACTICES:**

**DO NOT SMOKE, EAT, DRINK OR APPLY COSMETICS IN WORK AREA!** Wash Promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet.

**ELECTROSTATIC ACCUMULATION:**

This product contains petroleum distillates for which there is the potential for electrostatic accumulation. Proper grounding procedures should be used when transferring this material.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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**EXPOSURE LIMITS:** Not established by OSHA or ACGIH (see Section 2 for individual components).

**ENGINEERING CONTROLS:** Mechanical ventilation should be used when handling this product in enclosed spaces. Local exhaust ventilation may be necessary.

**RESPIRATORY PROTECTION:** Wear a pesticide respirator which is jointly approved by the Mining Enforcement and Safety Administration and the National Institute for Occupational Safety and Health, under the provisions of 30 CFR Part II.

**SKIN PROTECTION:** Take prudent precautions to avoid contact with skin and clothing. Wear rubber gloves.

**EYE PROTECTION:** Take prudent precautions to avoid contact with eyes. Wear goggles, full-face shield or full-face respirator.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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**APPEARANCE:** Clear yellow  
**ODOR:** Banana  
**PHYSICAL STATE:** Liquid  
**VAPOR PRESSURE:** (mm Hg @20° C) :< 1  
**VOC:** Less than 2%  
**VAPOR DENSITY:** Not available  
**BOILING POINT:** Not available  
**MELTING POINT:** Not applicable  
**SOLUBILITY IN WATER:** Less than 5%  
**SOLUBILITY IN OIL:** 100%  
**SPECIFIC GRAVITY:** (at 60° F) : 0.772  
**COLOR, (GARDNER):** Not available  
**pH:** Not available  
**VISCOSITY:** Not available  
**REFRACTIVE INDEX:** Not available

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## 10. STABILITY AND REACTIVITY

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**CHEMICAL STABILITY:** Stable.  
**INCOMPATIBILITY:** Not compatible with strong acids or bases. Not compatible with strong oxidizers.  
**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition in the presence of air may yield carbon monoxide and/or carbon dioxide.  
**HAZARDOUS POLYMERIZATION:** Will not occur.

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## 11. TOXICOLOGICAL INFORMATION

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### ACUTE STUDIES:

#### INGESTION:

Oral LD<sub>50</sub> (rat) Resmethrin 4250 mg/kg,  
technical acute

#### SKIN:

Acute Dermal LD<sub>50</sub> (rabbit): Not available  
Primary skin irritation (rabbit): Slight irritation at 72 hours. Primary skin irritation index = 1.58.  
Dermal Sensitization (guinea pig): Not available

#### INHALATION:

Acute Inhalation LC<sub>50</sub> (rat) greater than 9,490 mg/m<sup>3</sup>

#### EYE:

Primary eye irritation (rabbit): Not available

### CHRONIC:

**CARCINOGENICITY:** Not available

**Carcinogenicity/  
Oncogenicity:** Not available

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## 12. ECOLOGICAL INFORMATION

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**ECOTOXICOLOGICAL INFORMATION:** This product is toxic to fish, birds, and other wildlife. Do not apply directly to water. Do not contaminate water when disposing of equipment washwaters. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

### PERSISTENCE IN THE ENVIRONMENT

**BIODEGRADATION:** Unknown  
**CHEMICAL DEGRADATION:** Unknown

**TOXIC EFFECTS ON ORGANISMS:** Unknown

**FISH: LC<sub>50</sub>** Not established  
**BIRD: LC<sub>50</sub>** Not established

**TOXICITY TO USEFUL INSECTS:** Unknown

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## 13. DISPOSAL CONSIDERATIONS

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**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Triple rinse (or equivalent) and offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by other approved State and Local procedures.

### RCRA \ CERCLA HAZARDOUS WASTE:

**INGREDIENT**  
None

**RCRA ID#: CERCLA RQ-VALUE**  
None None

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## 14. TRANSPORT INFORMATION

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### U.S. DEPARTMENT OF TRANSPORTATION (DOT) INFORMATION:

**PROPER SHIPPING NAME:** INSECTICIDES, LIQUID, N.O.I., NOT DOT REGULATED

**HAZARD CLASS:** Non-Hazardous

**IDENTIFICATION NUMBER (UN or NA):** N/A

**PACKING GROUP:** N/A

**REPORTABLE QUANTITY (RQ)**

**UNDER CERCLA:**

**OTHER SHIPPING INFORMATION:** This product is not regulated as hazardous by the DOT.

### PROPER HAZARDOUS SHIPPING NAME:

**HAZARD CLASS:**

**IDENTIFICATION NUMBER (UN or NA):**

**PACKING GROUP:**

### INTERNATIONAL TRANSPORTATION REGULATIONS:

**ICAO / IATA DESCRIPTION:** NON-HAZARDOUS

**PROPER SHIPPING NAME:** INSECTICIDES, LIQUID, N.O.I., NOT DOT REGULATED

**IMO DESCRIPTION (IMDG CODE):** NOT AVAILABLE

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## 15. REGULATORY INFORMATION

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### U.S. FEDERAL REGULATIONS:

**SARA TITLE III: (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

**311/ 312 HAZARD CATEGORIES:**

**FIRE:**  
Not available

**PRESSURE GENERATING:**  
Not available

**REACTIVITY:**  
Not available

**ACUTE:**  
Not available

### SECTION 313 REPORTABLE INGREDIENTS:

**CAS#:**  
None

This product contains the following toxic chemicals of the subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

**CHEMICAL NAME:**  
None

**% BY WEIGHT:**  
None

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## 302/ 304 EMERGENCY PLANNING

**EMERGENCY PLAN:** There are no SARA Title III Section 302 extremely hazardous substances present in this formulation (40 CFR 355).

See Section 13 of this MSDS for the components that are subject to emergency requirements under CERCLA Section 103(a)(40 CFR 302.4).

## TSCA (TOXIC SUBSTANCE CONTROL ACT)

**TSCA STATUS:** All chemical substances found in this product comply with the Toxic Substances Control Act's inventory reporting requirements.

## STATE

### REGULATIONS:

**VOLATILE ORGANIC COMPOUNDS** 98.8%  
**(VOC):**

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## 16. OTHER INFORMATION

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### HMIS RATINGS:

We assign HMIS ratings to this product based on the hazards of its ingredients(s). Since the customer is most aware of the applications and conditions of use, he must ensure that the proper personal protective equipment is provided consistent with information contained in Section's 7 and 8 of this MSDS.

<b>HMIS RATINGS:</b>	Health	Not available
	Flammability	Not available
	Reactivity	Not available

*The data contained herein is based on information currently available to Cardinal Professional Products, and believed to be factual and the opinions expressed to be those of qualified experts; however, this data is not to be taken as a warranty or representation for which Cardinal Professional Products assumes legal responsibility.*

Supersedes: 3/96

Material Safety Data Sheet prepared by