



Revision Number: 007.0

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**1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER**

**Product identifier used on the label:** Combat® Max Defense System Brand Roach Killing Gel  
 Combat® Max Roach Killing Gel  
 Combat® Source Kill Max R3

**Other means of identification:** 1532042; EPA Reg. 64240-45

**Recommended use of the chemical and restrictions on use:** Insecticide (Roach gel), Use biocides safety. Always read the label and product information before use

**Name, address and telephone number of the chemical manufacturer:**

Combat Insect Control Systems C/O The Dial Corporation  
 7201 E. Henkel Way  
 Scottsdale, AZ 85255-9672 USA

CHEMTREC: 1-800-424-9300 (24 hours daily)  
 Internet: www.henkelna.com

**Emergency telephone number:** Medical Emergencies: 1-888-689-9082

**2. HAZARD IDENTIFICATION**

The hazards described in this OSHA Globally Harmonized System Safety Data Sheet (SDS) are not intended for consumers, and does not address consumer use of the product. For information regarding consumer applications of this product, refer to the product label.

Classification of the substance or mixture in accordance with paragraph (d) of §1910.1200

HAZARD CLASS	HAZARD CATEGORY
SKIN SENSITIZATION	1

Signal word, hazard statement(s), symbol(s) and precautionary statement(s) in accordance with paragraph (f) of §1910.1200

**Signal word:** WARNING  
**Hazard Statement(s):** May cause an allergic skin reaction.



**Symbol(s):**

**Precautionary Statements:**

**Prevention:** Avoid breathing vapors, mist, or spray.  
 Contaminated work clothing should not be allowed out of the workplace.  
 Wear protective gloves.

**Response:** IF ON SKIN: Wash with plenty of soap and water.  
 If skin irritation or rash occurs: Get medical attention.  
 Wash contaminated clothing before reuse.

**Storage:** Not prescribed.

**Disposal:** Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

**Hazards not otherwise classified:** Not available.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

The following chemicals are classified as health hazards in accordance with paragraph (d) of § 1910.1200.

Combat Insect Control Systems C/O The Dial Corporation, a Henkel Company; 7201 E. Henkel Way; Scottsdale, AZ 85255-9672	
Combat® Insecticide	Page 1 of 6

Chemical Name*	CAS Number (Unique Identifier)	Concentration
Vegetable oil	Proprietary	10 - 30 %
Table sugar	Proprietary	10 - 30 %
Gelling agent	Proprietary	1 - 5 %
Starch	Proprietary	1 - 5 %
Organic emulsifier	Proprietary	1 - 5 %
Preservative	Proprietary	0.1 - 1 %
Fipronil	120068-37-3	0.01 %

\*The specific chemical identity and/or exact percentage (concentration) of composition has been withheld because a trade secret is claimed in accordance with paragraph (i) of §1910.1200.

## 4. FIRST AID MEASURES

### Description of necessary measures

**Inhalation:** Remove from exposure area to fresh air. Treat symptomatically and supportively. If any symptoms appear, get medical attention.  
**Skin contact:** Rinse affected area with mild soap and water until no evidence of product remains. Get medical attention if irritation persists.  
**Eye contact:** Rinse eyes with plenty of water for at least 15 minutes while holding eyelids open. Get medical attention if pain or irritation develops.  
**Ingestion:** Dilution by rinsing the mouth and giving water or milk to drink is generally recommended. Contact physician or local poison control center.

### Most important symptoms and effects, both acute and delayed

After eye contact: May cause irritation. After skin contact: Repeated or prolonged excessive exposure may cause irritation or dermatitis or sensitization in previously exposed individuals. After ingestion: Nausea and possible vomiting may occur. After inhalation: Unlikely to occur due to the physical properties of the product.

### Indication of any immediate medical attention and special treatment needed

After eye contact: Rinse eyes with plenty of water until no evidence of product remains. After skin contact: Rinse affected area with mild soap and water until no evidence of product remains. After ingestion: Dilution by rinsing the mouth and giving a glass of water to drink is generally recommended. After inhalation: Remove from exposure area to fresh air.

## 5. FIRE FIGHTING MEASURES

### Suitable (and unsuitable) extinguishing media

**Suitable extinguishing media:** Dry chemical, carbon dioxide, water spray or regular foam.  
**Unsuitable extinguishing media:** None known

### Specific hazards arising from the chemical

Irritating smoke, carbon monoxide, and carbon dioxide.

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

In case of fire, wear a full-face positive-pressure self-contained breathing apparatus and protective suit. Shut off all ignition sources. Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Isolate area. Keep unnecessary personnel away. Avoid breathing vapors, keep upwind.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Wear skin, eye and respiratory protection as recommended in Section 8. Ventilate spill area if possible. Do not touch spilled material. Spills present a slipping hazard. Keep unnecessary personnel away. Make sure area is slip-free before re-opening to traffic.

### Methods and materials for containment and cleaning up

SMALL SPILLS: Sweep or scoop up and place into containers for later disposal. Wash site of spillage thoroughly with water. LARGE SPILLS: Ventilate closed spaces before entering. Sweep or scoop up and place into suitable clean, dry containers for reclamation or later disposal. Do not flush spilled material into sewer. Dispose in suitable waste container. Keep unnecessary people away from spill.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Do not get in eyes, on skin, on clothing. Do not take internally. Use with adequate ventilation. Keep the containers closed when not in use. Avoid generating dusts.

### Conditions for safe storage, including any incompatibilities

Store in a cool, dry, ventilated area out of reach of children and away from sources of heat, moisture, and incompatible substances. Store in suitable labeled containers. Store the containers tightly closed. Storage areas for large quantities (warehouse) should be well ventilated.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Vegetable oil	None	5 mg/m3 PEL Respirable fraction. 15 mg/m3 PEL Total dust.	None	None
Table sugar	10 mg/m3 TWA	5 mg/m3 PEL Respirable fraction. 15 mg/m3 PEL Total dust.	None	None
Starch	10 mg/m3 TWA	5 mg/m3 PEL Respirable fraction. 15 mg/m3 PEL Total dust.	None	None
Organic emulsifier	10 mg/m3 TWA	None	None	None

#### Appropriate engineering controls

Provide local exhaust or general dilution ventilation to keep exposure to airborne contaminants below the permissible exposure limits where mists or vapors may be generated.

#### Individual protection measures

**Respiratory:** Air contamination monitoring should be carried out where mists or vapors are likely to be generated, to assure that the employees are not exposed to airborne contaminants above the permissible exposure limits. If respiratory protection is required, it must be based on the contamination levels found in the workplace, must not exceed the working limits of the respirator and be jointly approved by the National Institute for Occupational Safety and Health and the Mine Safety and Health Administration (NIOSH-MSHA).

**Eye:** Safety glasses are required to prevent eye contact where dusty conditions may occur.

**Hand/Body:** Protective gloves are required where repeated or prolonged skin contact may occur. Protective clothing is required where repeated or prolonged skin contact may occur.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	gel, brown
<b>Odor:</b>	characteristic
<b>Odor threshold:</b>	Not available
<b>pH:</b>	Not applicable
<b>Melting point/ range:</b>	60°C (140°F)
<b>Boiling point/range:</b>	Not available.
<b>Flash point:</b>	> 93.3 °C (> 199.94 °F)
<b>Evaporation rate:</b>	Not available.
<b>Flammable/Explosive limits - lower:</b>	Not available.
<b>Flammable/Explosive limits - upper:</b>	Not available.
<b>Vapor pressure:</b>	Not available.
<b>Vapor density:</b>	Not available.
<b>Solubility in water:</b>	Insoluble
<b>Partition coefficient (n-octanol/water):</b>	Not available.
<b>Autoignition temperature:</b>	Not available.
<b>Decomposition temperature:</b>	Not available.
<b>Viscosity:</b>	Not available.
<b>VOC content:</b>	Not available.
<b>Specific gravity:</b>	1.27 g/ml

## 10. STABILITY AND REACTIVITY

<b>Reactivity:</b>	This product may react with strong reducing agents.
<b>Chemical stability:</b>	Stable under normal ambient temperature (70°F, 21°C) and pressure (1 atm).
<b>Possibility of hazardous reactions:</b>	Hazardous polymerization has not been reported to occur under normal temperatures and pressures.
<b>Conditions to avoid:</b>	Avoid storing in direct sunlight and avoid extremes of temperature.
<b>Incompatible materials:</b>	Strong oxidizers and reducing agents
<b>Hazardous decomposition products:</b>	Thermal decomposition products may include oxides of carbon.

## 11. TOXICOLOGICAL INFORMATION

### Likely routes of exposure including symptoms related to characteristics

**Inhalation:** Unlikely to occur due to the physical properties of the product. Dust may cause mucous membrane irritation with coughing, dryness and sore throat.

**Skin contact:** Repeated or prolonged excessive exposure may cause irritation or sensitization dermatitis in previously exposed individuals.

**Eye contact:** May cause irritation.

**Ingestion:** May cause mild gastrointestinal irritation with nausea, vomiting, diarrhea and abdominal pain.

**Physical/Chemical:** No physical/chemical hazards are anticipated for this product.

### Other relevant toxicity information:

This product is an insecticide. The use of this product by consumers is safe under normal and reasonable foreseen use.

**Acute oral product toxicity:** LD50 > 5,000 mg/kg

**Acute dermal product toxicity:** LD50 > 2,000 mg/kg

### Numerical measures of toxicity, including delayed and immediate effect

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Vegetable oil	None	No Target Organs
Table sugar	Oral LD50 (RAT) = 29.700 mg/kg	Skin, Nuisance dust
Gelling agent	None	Irritant
Starch	None	Allergen, Irritant
Organic emulsifier	None	Allergen
Preservative	None	Irritant, Allergen, Respiratory

### Carcinogenicity information

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Vegetable oil	No	No	No
Table sugar	No	No	No
Gelling agent	No	No	No
Starch	No	No	No
Organic emulsifier	No	No	No
Preservative	No	No	No

### Carcinogenicity

None of the ingredients in this product are listed as carcinogens by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) or the Occupational Safety and Health Administration (OSHA).

### Mutagenicity

None of the ingredients in this product are known to cause mutagenicity.

### Toxicity to reproduction

None of the ingredients in this product are known to have reproductive, fetal, or developmental hazards.

## 12. ECOLOGICAL INFORMATION

### Aquatic Toxicity:

This product is anticipated to be safe for the environment at concentrations predicted in household settings under normal use conditions. The following toxicity information is available for the hazardous ingredient(s) when used as technical grade and is provided as reference for the occupational settings.

### Toxicity to fish:

Hazardous substances CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Vegetable oil	LC50	> 10.000 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test) OECD Guideline 203 (Fish, Acute Toxicity Test) OECD Guideline 203 (Fish, Acute Toxicity Test)
Table sugar	LC50	> 700 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	
Gelling agent	LC50	490 mg/l	Fish	96 h	Oncorhynchus mykiss	
Starch	LC50	> 100 mg/l	Fish			
Organic emulsifier	LC50	> 10.000 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	
Preservative	LC50	1,4 mg/l	Fish	96 h	Salmo gairdneri (new name: Oncorhynchus mykiss)	

### Toxicity to aquatic invertebrates:

Hazardous substances CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Vegetable oil	EC50	> 100 mg/l	Daphnia	48 h	Daphnia magna	
Gelling agent	EC50	980 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Starch	EC50	> 100 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Preservative	EC50	1,05 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

**Toxicity to algae:**

Hazardous substances CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Vegetable oil	EC50	> 100 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	DIN 38412-09
Starch	EC50	> 100 mg/l	Algae			OECD Guideline 201 (Alga, Growth Inhibition Test)
Preservative	EC50	0,11 mg/l	Algae	72 h	Pseudokirchnerella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)

**Persistence and Degradability:**

Vegetable oil	readily biodegradable	aerobic	100 %	EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test)
Table sugar	readily biodegradable	aerobic	73 - 90 %	EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test)
Gelling agent	readily biodegradable	aerobic	91 - 95 %	EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test)
Starch	readily biodegradable, but failing 10-day window	aerobic	88 - 100 %	EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test)
Organic emulsifier	readily biodegradable	aerobic	95 %	EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test)

**Bioaccumulation Potential:** The bioaccumulation potential of this product has not been determined.

**Mobility:** The mobility of this product (in soil and water) has not been determined.

### 13. DISPOSAL CONSIDERATIONS

**Waste Number and Description:** Not applicable, not regulated.

**Disposal Considerations:**

**Disposal of products:**

Pesticide wastes may be acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law.

**Disposal of packages:**

Do not reuse this container. Never place unused product down any indoor or outdoor drain. Dispose of container and unused contents in accordance with federal, state and local requirements.

**Additional information:**

Observe all federal, state and local regulations when storing or disposing of this substance

## 14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

### U.S. Department of Transportation Ground (49 CFR)

**Proper shipping name:** Not regulated  
**Hazard class or division:** None  
**Identification number:** None  
**Packing group:** None

### International Air Transportation (ICAO/IATA)

**Proper shipping name:** Not regulated  
**Hazard class or division:** None  
**Identification number:** None  
**Packing group:** None

### Water Transportation (IMO/IMDG)

**Proper shipping name:** Not regulated  
**Hazard class or division:** None  
**Identification number:** None  
**Packing group:** None

## 15. REGULATORY INFORMATION

**Occupational Safety and Health Act:** Hazard Communication Standard, 29 CFR 1910.1200(g) Appendix D: The Occupational Safety and Health Administration (OSHA) require that the Safety Data Sheets (SDSs) are readily accessible to employees for all hazardous chemicals in the workplace. Since the use pattern and exposure in the workplace are generally not consistent with those experienced by consumers, this SDS may contain health hazard information not relevant to consumer use.

### United States Regulatory Information:

**TSCA 8 (b) Inventory Status:** All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.  
**TSCA 12 (b) Export Notification:** None above reporting de minimis  
**CERCLA/SARA Section 302:** None above reporting de minimis  
**CERCLA/SARA Section 311/312:** Not available.  
**CERCLA/SARA Section 313:** None above reporting de minimis  
**California Proposition 65:** No California Proposition 65 listed chemicals are known to be present.

**Export Restrictions:** This is a pesticide product registered by the US Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. Refer to the pesticide label for specific hazard information. The pesticide label also includes other important information, including directions for use.

### Canada Regulatory Information:

**CEPA DSL/NDL Status:** One or more components are not listed on, and are not exempt from listing on either the Domestic Substances List or the Non-Domestic Substances List.

## 16. OTHER INFORMATION

**DISCLAIMER:** The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation and its affiliates ("Henkel") does not assume responsibility for any results obtained by persons over whose methods Henkel has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any Henkel's products. In light of the foregoing, Henkel specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel's products. Henkel further disclaims any liability for consequential or incidental damages of any kind, including lost profits.

This safety data sheet contains changes from the previous version in sections: 2, 3, 8, 11, 12

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