



Revision Number: 001.3

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

Product identifier used on the label: Combat Max Ant & Roach Killer, EPA Reg. 1021-1856-64240

Recommended use of the chemical and restrictions on use: Crawling insects

Name, address and telephone number of the chemical manufacturer:

Combat Insect Control Systems
One Henkel Way
Rocky Hill, Connecticut 06067

Telephone: For medical emergencies 1-800-457-8739 CHEMTREC: 1-800-424-9300
Internet: www.henkel-northamerica.com

2. HAZARDS IDENTIFICATION

The hazards described in this 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
FLAMMABLE AEROSOL.	2
GASES UNDER PRESSURE	Liquef. Gas
ACUTE TOXICITY INHALATION	4
SKIN IRRITATION	2
SKIN SENSITIZATION	1
CHRONIC HAZARDS TO THE AQUATIC ENVIRONMENT	2

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):

Flammable aerosol.
Contains gas under pressure; may explode if heated.
Causes skin irritation.
May cause an allergic skin reaction.
Harmful if inhaled.
Toxic to aquatic life with long lasting effects.

Symbol(s):



Precautionary Statements:

Prevention:

Keep away from heat, sparks, open flames, hot surfaces - no smoking.
Do not spray on an open flame or other ignition source.
Do not pierce or burn, even after use.
Avoid breathing mist or spray.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing should not be allowed out of the workplace.
Avoid release to the environment.
Wear protective gloves.

Response:

IF ON SKIN: Wash with plenty of water.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.
If skin irritation or rash occurs: Get medical attention.
Take off contaminated clothing.

Storage: Collect spillage.
Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

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.

Chemical Name*	CAS Number (Unique Identifier)	Concentration
Isobutane	75-28-5	5 - 10 %
1-Butoxypropan-2-ol	5131-66-8	1 - 5 %
Propane	74-98-6	1 - 5 %
tetramethrin	7696-12-0	500 PPM
a-cyano-3-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate	52315-07-8	500 PPM

*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: Move to fresh air. In case of breathing difficulties seek immediate medical advise.

Skin contact: Rinse under running water. Remove all contaminated clothing. Consult skin specialist if necessary.

Eye contact: Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

Ingestion: Contact physician or local poison control center. Do not give fluids. In case of ingestion, the decision of whether or not to induce vomiting should be made by the attending physician.

Most important symptoms and effects, both acute and delayed

After skin contact: Temporary irritation of the skin (redness, swelling, burning). After eye contact: Temporary irritation of the eyes (redness, swelling, burning, watering eyes). After ingestion: Ingestion may cause irritation of mouth, throat, digestive tract, diarrhea and vomiting.

After inhalation: Irritation of the respiratory tract, coughing. Inhalation of larger amounts may cause laryngospasm with shortness of breath. Harmful by inhalation.

Indication of any immediate medical attention and special treatment needed

After skin contact: Rinse affected area with large amounts of mild soap and water until no evidence of product remains. After eye contact: Rinse eyes immediately with plenty of water, occasionally lifting upper and lower lids, until no evidence of product remains. After ingestion: In case of coughing or shortness of breath immediately call the rescue services. Do not induce vomiting. After inhalation: Remove from exposure area to fresh air immediately Contact physician or local poison control center.

5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Extinguish using agent suitable for type of surrounding fire.

Unsuitable extinguishing media: None known

Specific hazards arising from the chemical

Carbon dioxide. Hydrogen cyanide. carbon monoxide

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. Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Avoid breathing vapors, keep upwind. Isolate area. Keep unnecessary personnel away.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear skin, eye and respiratory protection as recommended in Section 8. Stop leak if you can do it without risk. Spills present a slipping hazard. Keep unnecessary personnel away. Ventilate spill area if possible. Make sure area is slip-free before re-opening to traffic.

Environmental precautions

Dispose of according to Federal, State and local governmental regulations.

Methods and materials for containment and cleaning up

SMALL SPILLS: Contain and absorb with sand or other absorbent material and place into clean, dry containers for later disposal. Wash site of spillage thoroughly with water. LARGE SPILLS: Dike far ahead of spill to prevent further movement. Recover by pumping or by using a suitable absorbent material and place into containers for later disposal. Dispose in suitable waste container.

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. Avoid open flames. Keep away from sources of ignition - no smoking. Keep out of the reach of children.

Conditions for safe storage, including any incompatibilities

Store away from incompatible substances, excessive heat, flames, sparks or other ignition sources.

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
Isobutane	1,000 ppm STEL	None	None	None
1-Butoxypropan-2-ol	None	None	None	None
Propane	Included in the regulation but with no data values. See regulation for further details (Simple asphyxiant.)	1,000 ppm (1,800 mg/m ³) PEL	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:	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 splashing of liquefied product 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

Appearance:	aerosol, Liquefied gas white
Odor:	characteristic
Odor threshold:	Not available.
pH:	Not available.
Melting point/ range:	Not available.
Boiling point/range:	Not available.
Flash point:	68.3 °C (154.94 °F)
Evaporation rate:	Not available.
Flammable/Explosive limits - lower:	Not available.
Flammable/Explosive limits - upper:	Not available.
Vapor pressure:	Not available.
Vapor density:	Not available.
Solubility in water:	Not available.
Partition coefficient (n-octanol/water):	Not available.
Autoignition temperature:	Not available.
Decomposition temperature:	Not available.
Viscosity:	Not available.
VOC content:	Not available.

10. STABILITY AND REACTIVITY

Reactivity:	This product may react with strong oxidizing agents.
Chemical stability:	Stable under normal ambient temperature (70°F, 21°C) and pressure (1 atm).
Possibility of hazardous reactions:	Hazardous polymerization has not been reported to occur under normal temperatures and pressures.
Conditions to avoid:	Avoid storing in direct sunlight and avoid extremes of temperature.
Incompatible materials:	Strong oxidizers, acids and bases.
Hazardous decomposition products:	Carbon dioxide. carbon monoxide Hydrogen cyanide.

11. TOXICOLOGICAL INFORMATION

Likely routes of exposure including symptoms related to characteristics

Inhalation:	Harmful if inhaled.
Skin contact:	Repeated or prolonged excessive exposure may cause irritation or sensitization dermatitis in previously exposed individuals.
Eye contact:	May cause mild irritation
Ingestion:	May cause mild gastrointestinal irritation with nausea, vomiting, diarrhea and abdominal pain.
Physical/Chemical:	Flammable. The aerosol container is under pressure. Do not expose to high temperatures.

Other relevant toxicity information:	This product is an insecticide. The use of this product by consumers is safe under normal and reasonable foreseen use.
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Numerical measures of toxicity, including delayed and immediate effect

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Isobutane	Inhalation LC50 (RAT, 15 min) = 570000 ppm	Cardiac, Central nervous system, Lung
1-Butoxypropan-2-ol	None	Irritant
Propane	None	Cardiac, Central nervous system, Irritant
tetramethrin	Oral LD50 (RAT) = 4,600 mg/kg Oral LD50 (RAT) = > 20,000 mg/kg Oral LD50 () = > 4,640 mg/kg Dermal LD50 (RAT) = > 1,000 mg/kg Inhalation LC50 (RAT, 3 h) = > 2.74 mg/l	No Data
a-cyano-3-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate	Oral LD50 (RAT) = 7,180 mg/kg Oral LD50 (RAT) = 4,123 mg/kg Oral LD50 (RABBIT) = 3 g/kg Dermal LD50 (RAT) = 1,600 mg/kg Dermal LD50 (RABBIT) = > 2,460 mg/kg Inhalation LC50 (RAT, 4 h) = 2.5 mg/l	No Data

Carcinogenicity information

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Isobutane	No	No	No
1-Butoxypropan-2-ol	No	No	No
Propane	No	No	No
tetramethrin	No	No	No
a-cyano-3-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate	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 for reproduction

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

12. ECOLOGICAL INFORMATION

Aquatic Toxicity:

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. Do not empty into drains, soil or bodies of water.

Toxicity to fish:

Hazardous substances CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
1-Butoxypropan-2-ol 5131-66-8	LC50	1,732 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	not specified
tetramethrin 7696-12-0	LC50	0.0037 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
a-cyano-3-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate 52315-07-8	LC50	0.0028 mg/l	Fish	96 h	Salmo gairdneri (new name: Oncorhynchus mykiss)	OECD Guideline 203 (Fish, Acute Toxicity Test)
	NOEC	0.00003 mg/l	Fish	34 d	Pimephales promelas	OECD Guideline 210 (fish early life stage toxicity test)

Toxicity to aquatic invertebrates:

Hazardous substances CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
1-Butoxypropan-2-ol 5131-66-8	EC50	> 700 mg/l	Daphnia	24 h	Daphnia magna	not specified
tetramethrin 7696-12-0	EC50	0.11 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
a-cyano-3-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate 52315-07-8	EC50	0.0003 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
Isobutane 75-28-5	EC50	7.71 mg/l	Algae	96 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	not specified
1-Butoxypropan-2-ol 5131-66-8	EC50	1,466 mg/l	Algae			OECD Guideline 201 (Alga, Growth Inhibition Test)
tetramethrin 7696-12-0	IC50	0.94 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
	NOEC	0.94 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
a-cyano-3-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2- dimethylcyclopropanecarbo xylate 52315-07-8	EC50	> 0.1 mg/l	Algae	96 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)

Persistence and degradability

Hazardous substances CAS-No.	Result value	Route of application	Species	Method
1-Butoxypropan-2-ol 5131-66-8	readily biodegradable	aerobic	80 - 90 %	EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test)
tetramethrin 7696-12-0	not biodegradable.	readily	not specified	OECD 301 A - F
a-cyano-3-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2- dimethylcyclopropanecarbo xylate 52315-07-8	not biodegradable.	readily	not specified	OECD 301 A - F

Bioaccumulative potential

The bioaccumulation potential of this product has not been determined.

Mobility in soil

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

13. DISPOSAL CONSIDERATIONS

Description of waste residues:

Hazardous waste number: D001 (Ignitability)

Safe handling and disposal methods:

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

Disposal of uncleaned 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.

14. TRANSPORT INFORMATION

The information in this section is for reference only and should not take the place of a shipping paper (bill of lading) specific to an order. Please note that the proper shipping classification may vary by packaging, properties, and mode of transportation.

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

Proper shipping name: Aerosols
Hazard class or division: 2.1
Identification number: UN 1950
Packing group: None

International Air Transportation (ICAO/IATA)

Proper shipping name: Aerosols, flammable
Hazard class or division: 2.1
Identification number: UN 1950
Packing group: None

Water Transportation (IMO/IMDG)

Proper shipping name: AEROSOLS
Hazard class or division: 2.1
Identification number: UN 1950
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:

CERCLA/SARA Section 302 EHS: None above reporting de minimis.
CERCLA/SARA Section 311/312: Fire, Pressure, Delayed Health
CERCLA/SARA Section 313: None above reporting de minimis.

California Proposition 65: No California Proposition 65 listed chemicals are known to be present.
FIFRA Regulated Products: 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. EPA Signal Word: CAUTION
EPA Precautionary Language: Harmful if swallowed or absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes, and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

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: New Safety Data Sheet format.

Prepared by: R&D Support Services

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