



Material Safety Data Sheet Y-100

Revision 04.0

Revision Date: 04/24/2013

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name(s): Combat® 12 Month 1
Combat® MAX 12-Month Roach Killing Bait

Product Use: Insecticide – Roach Bait

Formula IDH Number(s): 1532039; EPA Reg. No. 64240-32

Company Address: Combat Insect Control Systems C/O The Dial Corporation; 19001 N Scottsdale Road; Scottsdale, AZ 85255-9672 USA

Contact Information: Medical Emergencies: 1-888-689-9082 CHEMTREC: 1-800-424-9300 (24 hours daily)

SECTION 2: HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION: This product is a fipronil-based food bait in a child resistant plastic station. Direct contact with eyes can cause mild-to-moderate eye irritation. Can cause mild skin irritation with prolonged contact. Keep out of reach of children. Do not allow children or pets to play with the bait stations. Hazards to humans and domestic animals. Wash thoroughly with soap and water after handling bait stations.

This product is labeled in accordance with guidelines set forth in the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA). The use pattern and exposure in the workplace are generally not consistent with those experienced by consumers. The requirements of the Occupational Safety and Health Administration applicable to this Material Safety Data Sheet may differ from the requirements of FIFRA and as a result, this MSDS may contain additional health hazard information not pertinent to consumer use and not found on the product label.

Regulatory Status: This material is considered to be hazardous under OSHA's Hazard Communication Standard (29 CFR 1900.1200). This MSDS should be retained and available for employees and other users of this product.

Potential Health Effects

NOTE: The acute health effects described below are those which could potentially occur for the finished product. They are based on the toxicology information available for the finished product and/or each hazardous ingredient, and are consistent with the product type and the likelihood of a specific route of exposure. Known chronic health effects related to exposure to a specific ingredient are indicated.

Eye Contact: Direct contact with eyes can cause mild-to-moderate eye irritation.

Skin Contact: Can cause mild skin irritation with prolonged contact.

Ingestion: Not a likely route of exposure. Ingestion of large amounts may cause some gastrointestinal discomfort including nausea, vomiting, abdominal pain, diarrhea, and lethargy.

Inhalation: Not a likely route of exposure. Irritating, in high concentration, to the respiratory tract (nose, throat, and lungs).

Subchronic/Chronic Health Effects: Due to the nature and composition of this product no chronic health effects are anticipated.

Medical Conditions Generally Recognized As Being Aggravated By Exposure: No known health conditions are aggravated by exposure to this product.

Potential Environmental Effects

See Section 12: Ecological Information.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Based on our hazard evaluation, none of the chemical substance(s) in this product are identified as hazardous.

<u>Ingredient</u>	<u>CAS Number</u>	<u>Percent (w/w)</u>
Fipronil	120068-37-3	0.05 %

SECTION 4: FIRST AID MEASURES

Call poison control center or doctor immediately for treatment advice. Have the product container or label with you when calling a poison control center or doctor or going for treatment.

Eyes: Rinse eyes with plenty of water for at least 15 minutes until no evidence of product remains. Get medical attention if pain or irritation persists.

Skin: Rinse affected area with mild soap and water until no evidence of product remains. Get medical attention if 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 if any symptoms appear.

Inhalation: Remove from exposure area to fresh air. If any symptoms appear, get medical attention.

Note to Physician: The physician's judgment should be used to control symptoms and clinical condition based on the individual reactions of the patient.

SECTION 5: FIRE FIGHTING MEASURES

Flammable Properties

OSHA Flammability Classification:	Not applicable	Flash Point:	None
Auto-Ignition Temperature:	Not applicable	Flame Projection:	Not available
Flammable/Explosive limits – lower:	Not available	Flammable/Explosive limits – upper:	Not available
Hazardous Combustion Products:	Oxides of carbon and oxides of nitrogen.		

Fire and Explosion Hazard: Negligible fire hazard when exposed to heat or flame.

Extinguishing Media

Dry chemical, carbon dioxide, water spray or regular foam.

Protection of Firefighters

In case of fire, wear a full-face positive-pressure self-contained breathing apparatus and protective suit. Move container from fire area if you can do it without risk. Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Use flooding amounts of water as a fog, solid streams may be ineffective. Avoid breathing vapors; keep upwind.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Wear skin, eye and respiratory protection as recommended in Section 8. Stop or reduce any leaks if it is safe to do so. Spills present a slipping hazard. Keep unnecessary personnel away. Ventilate spill area if possible. Do not touch spilled material. Ensure clean-up is conducted by trained personnel only. Make sure area is slip-free before re-opening to traffic.

Environmental Precautions:

This product is toxic to fish and aquatic invertebrates. This product should not be directly discharged into lakes, streams, ponds, estuaries, oceans, public water supplies, or other waters. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment washwater.

Methods for Containment and Clean-Up:

SMALL SPILLS: Sweep or scoop up and place into containers for later disposal. Wash site of spillage thoroughly with water. LARGE SPILLS: Sweep or scoop up. Dispose in suitable waste container. Keep unnecessary people away from spill.

SECTION 7: HANDLING AND STORAGE

Handling: Do not get in eyes or on skin. Do not take internally. Use with adequate ventilation. Keep the containers closed when not in use.

Storage: 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.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

The use of this product by consumers is safe under normal and reasonable foreseen use. The information provided below refers to the occupational settings.

Worker Exposure Limits

Ingredient	ACGIH TLV	OSHA PEL	AIHA WEEL	NIOSH
Fipronil	TWA: 0.1 mg/m ³ ; 0.032 mg/m ³	N/A	N/A	N/A

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.

Respirator:

Air contamination monitoring should be carried out where generation of vapors is likely to occur, to assure that the employees are not exposed to harmful concentrations of any of the above mentioned components. 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).

For Fire Fighting and Other Immediately Dangerous To Life or Health Conditions:

Any self-contained breathing apparatus that has a full-face piece and is operated in a pressure-demand or other positive-pressure mode. Any supplied-air respirator that has a full-face piece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure demand or other positive-pressure mode.

Clothing: Protective clothing is required where repeated or prolonged skin contact may occur.

Gloves: Chemical-resistant gloves are required where repeated or prolonged skin contact may occur.

Eye/Face Protection: Splash-proof safety glasses are required to prevent eye contact where splashing of product may occur.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Child resistant plastic station	Physical state:	Solid
Odor:	Not available	Odor threshold:	None
Boiling point:	Not available	Evaporation rate:	Not available
Melting point:	60° C	Vapor density:	Not available
Specific gravity:	1.27 g/ml	Vapor pressure:	Not available
pH:	Not available	Water solubility:	Miscible
Partition coefficient (n-octanol/water):	Not available	Viscosity (Dynamic):	Not available
Flammable Properties:	See Section 5		

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability: Stable under normal ambient temperature (70°F, 21°C) and pressure (1 atm).

Conditions to Avoid: Avoid storing in direct sunlight and avoid extremes of temperature.

Incompatible Materials: Strong oxidizers and reducing agents.

Hazardous Decomposition Products: Thermal decomposition may produce oxides of carbon.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur under normal temperatures and pressures.

SECTION 11: TOXICOLOGICAL INFORMATION

Product Information Summary: The use of this product by consumers is safe under normal and reasonable foreseen use. Direct contact with eyes can cause mild-to-moderate irritation. Can cause mild skin irritation with prolonged contact.

Component Analysis: The following toxicity information is available for the product and/or for the hazardous ingredients when used as technical grade.

Ingredient	LD50 / Draize Score	Toxicity / Irritation Rating
<u>Acute Oral Toxicity</u>		
Combat® 12 Month 1	> 5,000 mg/kg (rat)	Practically Non-hazardous
Fipronil (active ingredient)	97 mg/kg (rat)	Very Toxic
<u>Acute Dermal Toxicity</u>		
Combat® 12 Month 1	> 2,000 mg/kg (rabbit)	Practically Non-Toxic
Fipronil (active ingredient)	354 mg/kg (rabbit)	Extremely Toxic
<u>Acute Inhalation Toxicity</u>		
Combat® 12 Month 1	> 5.0 mg/l	Slightly Toxic
Fipronil (active ingredient)	0.39 mg/l (rat)	Moderately Toxic
<u>Eye Irritation</u>		
Combat® 12 Month 1		Slightly Irritating
Fipronil (active ingredient)		Moderately Irritating
<u>Skin Irritation</u>		
Combat® 12 Month 1		Practically Non-Irritating
Fipronil (active ingredient)		Slightly Irritating

Sensitization: This product is not considered a skin or respiratory sensitizer.

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.

Reproductive/Fetal/Developmental effects: None of the ingredients in this product are known to have reproductive, fetal, or developmental hazards.

Target organ toxicity: None of the ingredients in this product are known to have target organ toxicity.

Epidemiological information: None of the ingredients in this product are known to have health-related information in working populations.

SECTION 12: ECOLOGICAL INFORMATION

The environmental toxicity of this product has not been evaluated. The active ingredient Fipronil is toxic birds, fish, and aquatic invertebrates. The following toxicity information is available for the hazardous ingredient when used as technical grade.

Product / Ingredient	LC50/EC50 (Animal Specie)	Toxicity Rating
<u>Vertebrates</u>		
Fipronil (active ingredient)	96h LC50: 0.248 mg/l (Rainbow trout) (flow-through test)	Very Toxic
<u>Invertebrates</u>		

Environmental Fate: No environmental fate data exists for the product.

Persistence and Degradability: The persistence and degradability of this product has not been determined. Fipronil is degraded to Fipronil amide by hydrolysis with a half-life of 28 days (pH 9 and 25°C).

Water: In water, Fipronil undergoes photolysis with a half-life of 0.151 days (0.9 mg/l at pH 5 and 25°C). Fipronil is also metabolized in water under anaerobic conditions with half-lives of 116-130 days.

Soil: In loam soil (46% sand, 23% clay, 31% silt) containing 1.73% organic matter, Fipronil undergoes photolysis with a half-life of 34 days (224 mg/kg at pH 6.7 and 25°C). Fipronil is also metabolized in soil under aerobic conditions with half-lives of 122-128 and 308-342 days in sandy loam (1.7% organic matter and pH 7.8 at 25°C) and sand (3.3% organic matter and pH 6.1 at 25°C), respectively. The metabolite under these conditions is 5-amino-3-cyano-1-(2,6-dichloro-4-trifluoromethylphenyl)-4-trifluoromethanesulfonylpyrazole.

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.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Number and Description: Not applicable, not regulated.

Disposal Considerations:

Disposal of products: This product is not a RCRA hazardous waste and can be disposed of in accordance with federal, state and local regulations.

Disposal of packages: Not applicable.

Additional information: Pesticide wastes may be acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the hazardous waste representative at the nearest EPA Regional Office for guidance.

SECTION 14: TRANSPORT INFORMATION

DOT Transportation of Dangerous Goods – Ground

DOT Hazard Class: Not regulated
DOT Proper Shipping Name: Insecticide, non-toxic, solid – Not Restricted.

International Air Transportation (ICAO/IATA)

ICAO/IATA Hazard Class: Not regulated
ICAO/IATA Proper Shipping Name: Not applicable

Water Transportation (IMO/IMDG)

IMO/IMDG Hazard Class: Not regulated
IMO/IMDG Proper Shipping Name: Not applicable

SECTION 15: REGULATORY INFORMATION

Occupational Safety and Health Act:

Hazard Communication Rule, 29 CFR 1910.1200: The Occupational Safety and Health Administration (OSHA) require Material Safety Data Sheets (MSDSs) to provide information about any hazard that may be associated with the product and make this information available in the workplace. Since the use pattern and exposure in the workplace are generally not consistent with those experienced by consumers, this MSDS may contain health hazard information not relevant to consumer use.

United States Regulatory Information:

Environmental Protection Agency (EPA) EPA Registration Number 64240-32
EPA Establishment Number(s): 071106-GA-001; 85632-KOR-001

TSCA: This product is a registered pesticide and is exempted from listing on the U.S. Toxic Substances Control Act (TSCA) chemical substance inventory.

EPA CERCLA/SARA TITLE III Superfund Amendment and Reauthorization Act: This product contains no CERCLA/SARA Title III materials

CERCLA/SARA Section 302 EHS: This product contains no extremely hazardous substances reportable under Section 302.

CERCLA/SARA 311/312: This product contains no hazardous chemicals reportable under Sections 311/312

CERCLA/SARA 313: Not applicable - Consumer product

State Regulations

California Proposition 65: This product does not contain substances listed under California Proposition 65.

Canada Regulatory Information:

This product is not registered for sale or distribution in Canada.

SECTION 16: OTHER INFORMATION

Combat® Insecticide

MSDS Y-100 (Rev. 4)

DISCLAIMER: The information contained herein is provided in good faith and is believed to be correct as of the date hereof. However, The Dial Corporation makes no representation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgment in determining its appropriateness for a particular purpose. Accordingly, The Dial Corporation will not be responsible for damages of any kind resulting from the use of or reliance upon such information. No representations, or warranties, either expressed or implied of merchantability, fitness for a particular purpose or of any other nature is made hereunder with respect to the information set forth herein or to the product to which the information refers.

NFPA RATINGS (Scale 0-4, where 4=high degree of hazard): HEALTH=1 FLAMMABILITY=1 REACTIVITY=0
HMIS RATINGS (Scale 0-4, where 4=high degree of hazard): HEALTH=1 FLAMMABILITY=1 REACTIVITY=0

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Supersedes: Rev. 3, 05/09/2011