



Starbar Golden Malrin Fly Bait

Safety Data Sheet

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SECTION 1: Identification

1.1. Identification

Product form : Mixture
Trade name : Starbar Golden Malrin Fly Bait
Synonyms : 100527078, 3006197, EPA Reg. No.: 2724-274, Golden Malrin RF-128 Fly Killer

1.2. Recommended use and restrictions on use

Recommended use : Fly attractant.
Restrictions on use : Keep out of reach of children and domestic animals. Do not use or store near heat or open flame. Avoid contact with eyes, skin or clothing. Avoid breathing dust.

1.3. Supplier

Wellmark International
1501 E. Woodfield Road, Suite 200W
Schaumburg, IL 60173 - United States
www.starbarproducts.com

1.4. Emergency telephone number

Emergency number : 1-800-347-8272
1-800-424-9300 - CHEMTREC
1-703-527-3887 - CHEMTREC - Outside North America - Collect Calls Accepted

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Combustible Dust May form combustible dust concentrations in air

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Signal word (GHS US) : Warning
Hazard statements (GHS US) : May form combustible dust concentrations in air

2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous. This product is toxic to shrimp and bees.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
Methomyl	(CAS-No.) 16752-77-5	1
Z-9-Tricosene	(CAS-No.) 27519-02-4	0.049
Sucrose	(CAS-No.) 57-50-1	98.9
Non-hazardous and/or does not meet criteria for classification	(CAS-No.) N/A	Balance

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

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First-aid measures after skin contact	: IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice and attention.
First-aid measures after ingestion	: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting unless directed to do so by medical personnel.

4.2. Most important symptoms and effects (acute and delayed)

4.3. Immediate medical attention and special treatment, if necessary

Contains Methomyl, an N-methyl carbamate that inhibits cholinesterase. Atropine is antidotal, if signs of cholinesterase inhibition are present. Early symptoms of poisoning in humans include: excessive sweating, headache, nausea, vomiting, blurred vision, slurred speech, and muscle twitching. Symptoms of poisoning in animals include: salivation, labored breathing, diarrhea, vomiting, tremors, and pinpoint pupils. Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Use extinguishing agent suitable for surrounding fire.
Unsuitable extinguishing media	: Avoid heavy hose streams.

5.2. Specific hazards arising from the chemical

Fire hazard	: Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
Explosion hazard	: Dust cloud can be ignited by a spark. This material is friable and can create small dust particles during any handling, processing, and transfer operations. This material can form explosive dust/air suspensions that are ignitable under some conditions.
Reactivity	: This material is friable and can create small dust particles during any handling, processing, and transfer operations. This material can form explosive dust/air suspensions that are ignitable under some conditions.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Combustible dust - use low-pressure medium fog streams to avoid dust clouds. Ventilate closed spaces before entering. Eliminate ignition sources.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures	: Evacuate unnecessary personnel. No flames, no sparks. Eliminate all sources of ignition. Avoid contact with skin, eyes and clothing. Avoid dust formation.
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6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: Exposure controls/personal protection.
Emergency procedures	: Contain spill and monitor for excessive dust accumulation. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ventilate closed spaces before entering. Turn off electric power to area. As an immediate precautionary measure, isolate spill or leak area for at least 100 meters (330 feet) in all directions. Evacuate area. Avoid dust formation. Do not scatter spilled material with high pressure water streams. Stay upwind. Wear appropriate personal protective equipment, avoid direct contact.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Use appropriate PPE. Minimize generation of dust. Sweep or scoop spills, dispose of any unusable material in approved landfill. Non-sparking tools should be used.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Avoid dust formation. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.
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Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container closed when not in use. Avoid extreme temperatures. Keep only in original container.

Incompatible materials : Heat, sparks, open flame. Strong acids. Strong bases. Strong oxidizers.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Methomyl (16752-77-5)		
ACGIH	ACGIH OEL TWA	0.2 mg/m ³ (inhalable fraction and vapor)
ACGIH	Remark (ACGIH)	Cholinesterase inhib; Skin; A4 (Not classifiable as a Human Carcinogen: Agents which cause concern that they could be carcinogenic for humans but which cannot be assessed conclusively because of a lack of data. In vitro or animal studies do not provide indications of carcinogenicity which are sufficient to classify the agent into one of the other categories); BEIA
NIOSH	NIOSH REL TWA	2.5 mg/m ³
Sucrose (57-50-1)		
ACGIH	ACGIH OEL TWA	10 mg/m ³
ACGIH	Remark (ACGIH)	Dental erosion
OSHA	OSHA PEL TWA [1]	15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction)
NIOSH	NIOSH REL TWA	10 mg/m ³ (total dust) 5 mg/m ³ (respirable dust)

8.2. Appropriate engineering controls

Appropriate engineering controls : Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values. It is recommended that dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Wear chemical-resistant protective gloves.

Eye protection:

Safety glasses

Skin and body protection:

Wear long sleeved shirt, long pants, socks and shoes

Respiratory protection:

In case of insufficient ventilation, use NIOSH approved respiratory protection.



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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Blue granular solid
Color	: Blue
Odor	: No data available
Odor threshold	: No data available
pH	: Not applicable
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non-flammable
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 1.5 g/cc @ 20 °C (68 °F)
Bulk density	: 50 lb(s)/ft ³ (0.8 g/cc)
Solubility	: Soluble
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosion limits	: Not applicable
Explosive properties	: Combustible dust
Oxidizing properties	: Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

This material is friable and can create small dust particles during any handling, processing, and transfer operations. This material can form explosive dust/air suspensions that are ignitable under some conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. May form combustible dust concentrations in the air. Hazardous polymerization will not occur.

10.4. Conditions to avoid

No flames, no sparks. Eliminate all sources of ignition. Avoid dust formation.

10.5. Incompatible materials

Strong oxidizing agents. Strong bases. Strong acids.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Starbar Golden Malrin Fly Bait	
LD50 oral rat	3106 mg/kg
LD50 dermal rabbit	> 2100 mg/kg

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LC50 Inhalation - Rat	> 2.722 mg/l
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GHS-US Properties	Classification
Acute toxicity (oral)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
Specific target organ toxicity (single exposure)	Not classified
Specific target organ toxicity (repeated exposure)	Not classified
Aspiration hazard	Not classified

Potential health effects

Inhalation

- Acute : Inhalation of methomyl may result in cholinesterase depression.
Chronic : Repeated exposure to methomyl via inhalation may result in cholinesterase depression.

Skin

- Acute : Dermal absorption of methomyl may result in cholinesterase depression.
Chronic : Repeated dermal exposure to methomyl may result in cholinesterase depression.

Eye

- Acute : May cause mild eye irritation.

Ingestion

- Acute : Under normal conditions of use, no health effects are expected. Ingestion of methomyl may result in cholinesterase depression.
Chronic : Repeated ingestion methomyl may result in cholinesterase depression.

- Mutagenicity** : Methomyl was negative in numerous assays to evaluate mutagenicity and genotoxicity, including Ames test, Reverse Mutation Assay, Recessive Lethal Assay, three DNA damage studies, an unscheduled DNA Synthesis Assay, and in vitro and in vivo cytogenic assays. Z-9 Tricosene is not expected to be a mutagen.

- Carcinogenicity** : Methomyl is not listed as a carcinogen by the IARC, NTP, OSHA and ACGIH. Z-9 Tricosene is not listed as a carcinogen by NTP, IARC and OSHA.

- Reproductive Effects** : Methomyl: A 3-generation rat reproduction study at rates of 50 and 100 ppm showed no adverse effect upon fertility, and no compound related histologic effect. A 2-generation rat study conducted at 75, 600, and 1,200 ppm in the diet showed similar results. In rats, no embryotoxic or teratogenic effects were observed at levels up to 400 ppm (highest level fed). In rabbits, the highest dietary dose level (100 mg/kg) did not cause any observed compound related abnormalities. Z-9 Tricosene did not produce developmental effects in rats.

SECTION 12: Ecological information

12.1. Toxicity

Methomyl (16752-77-5)	
LC50 Acute fish 1	2.49 mg/l (Exposure time: 96h - Rainbow trout)
LC50 Acute fish 2	0.63 mg/l (Exposure time: 96h - Blue gill)
LC50 Acute fish 3	2.8 mg/l (Exposure time: 96h - Fathead minnow) 1.16 mg/l (Exposure time: na - Sheepshead minnow)
LC50 Acute crustacea 1	0.234 mg/l (Exposure time: 96h - Mysid shrimp)
LC50 Acute crustacea 2	0.019 mg/l (Exposure time: na - Pink shrimp)
EC50 - Crustacea [1]	0.017 mg/l (Exposure time: 48h - Daphnia magna)
NOEC Chronic fish 1	0.076 mg/l (Fathead minnow) 0.26 mg/l (Sheepshead minnow)
NOEC Chronic fish 2	0.076 mg/l Fathead minnow

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Methomyl (16752-77-5)

NOEC Chronic crustacea 1	0.0007 mg/l (Daphnia magna) 0.029 mg/l (Mysid shrimp)
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Z-9-Tricosene (27519-02-4)

LC50 Acute fish 1	> 1000 mg/l (Exposure time: 96hr Oncorhynchus mykiss)
LC50 Acute fish 2	> 1000 mg/l (Exposure time: 96h - Blue gill)
EC50 - Crustacea [1]	1.08 mg/l (Exposure time: 48h Daphnia)

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

Methomyl (16752-77-5)

Partition coefficient n-octanol/water (Log Pow)	0.6
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12.4. Mobility in soil

No data available

12.5. Other adverse effects

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Ecological Fate	This pesticide is toxic to birds, fish, aquatic invertebrates, and mammals.
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SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

SECTION 14: Transport information

	UN number	Proper Shipping Name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	Not regulated	Not regulated	Not regulated	Not regulated	Not applicable
IMDG	UN3077	Packaging greater than 5 kg: Environmentally hazardous substance, solid, n.o.s (Methomyl)	9	III	Marine pollutant
IATA	UN3077	Packaging greater than 5 kg: Environmentally hazardous substance, solid, n.o.s (Methomyl)	9	III	Acute aquatic toxicity

SECTION 15: Regulatory information

15.1. US Federal regulations

Methomyl (16752-77-5)

Listed on the United States SARA Section 302

CERCLA RQ	100 lb
Section 302 EPCRA Reportable Quantity (RQ)	100 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	500 – 10000 lb

Z-9-Tricosene (27519-02-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Sucrose (57-50-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA Labelling

EPA Registration Number	EPA Reg. No.: 2724-274
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This chemical is a pesticide product registered by the United States 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. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

FIFRA Hazard statements	Caution
FIFRA Precautionary statements	KEEP OUT OF REACH OF CHILDREN.
FIFRA Hazards to Humans and Domestic Animals	Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco.
FIFRA First aid	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 told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. If in 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. NOTE TO PHYSICIAN/VETERINARIAN: Contains Methomyl, an N-methyl carbamate that inhibits cholinesterase. Atropine is antidotal, if signs of cholinesterase inhibition are present. Early symptoms of poisoning in humans include: excessive sweating, headache, nausea, vomiting, blurred vision, slurred speech, and muscle twitching. Symptoms of poisoning in animals include: salivation, labored breathing, diarrhea, vomiting, tremors, and pinpoint pupils.
FIFRA Environmental hazards	This pesticide is toxic to birds, fish, aquatic invertebrates, and mammals. Collect, cover, or incorporate any piles of granules spilled on the soil surface. Runoff may be hazardous to aquatic organisms in neighboring areas. Do not apply directly to water, or to areas where surface water is present. This chemical is known to leach through soil into groundwater, especially where soils are permeable or water table is near the surface.

15.2. US State regulations

No additional information available

SECTION 16: Other information

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SDS US (GHS HazCom 2012) - CGP

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