



Safety Data Sheet

Section 1: Identification

Product identifier

Product Name

- **Starbar Premium Fly Bait**

Synonyms

- 107137; 10950C; 10960C; PCP #: 15176

Product Description

- Blue granules.

Relevant identified uses of the substance or mixture and uses advised against

Recommended use

- Fly attractant.

Restrictions on use

- Avoid contact with eyes, skin or clothing. Keep out of the reach of children and domestic animals.

Details of the supplier of the safety data sheet

Manufacturer

- Wellmark International
100 Stone Road West, Suite 111
Guelph ON N1G 5L3
Canada

Emergency telephone number

Manufacturer

- 1-800-688-7378

Manufacturer (Transportation)

- 1-800-424-9300 - Chemtrec

Manufacturer (Transportation)

- 1-703-527-3887 - Chemtrec - outside the US, collect calls accepted

Section 2: Hazard Identification

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012

- Combustible Dust
Specific Target Organ Toxicity Single Exposure 1
Specific Target Organ Toxicity Repeated Exposure 1

Label elements

OSHA HCS 2012

DANGER



- Hazard statements** • May form combustible dust concentrations in air.
 Causes damage to organs via inhalation, dermal, ingestion
 Causes damage to organs through prolonged or repeated exposure via inhalation, dermal, ingestion

Precautionary statements

- Prevention** • Wash thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Do not breathe dust, fume, gas, mist, vapors and/or spray.
- Response** • IF exposed: Call POISON CENTER or doctor/physician.
 Get medical advice/attention if you feel unwell.
- Storage/Disposal** • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
 Store locked up.

Other hazards

OSHA HCS 2012

- This pesticide is toxic to: bees, wildlife and fish, aquatic organisms, birds and small wild mammals. Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Section 3 - Composition/Information on Ingredients

Substances

- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is not considered a substance.

Mixtures

Composition		
Chemical Name	Identifiers	%
Methomyl	CAS:16752-77-5	1%
9-Tricosene, (Z)	CAS:27519-02-4	0.049%
Sucrose	CAS:57-50-1	98.886%
Other ingredients	NDA	0.065%

Section 4: First-Aid Measures

Description of first aid measures

Inhalation

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a physician or poison control center immediately.

Skin

- IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

Eye

- 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/attention.

Ingestion

- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a physician or poison control center immediately.

Most important symptoms and effects, both acute and delayed

- Contains Methomyl, an N-methyl carbamate that inhibits cholinesterase. May affect central nervous system with a single or with repeated inhalation, skin or oral exposure. Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

- NOTE TO PHYSICIAN: 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 and supportively.

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media • Use water, foam, carbon dioxide, or dry chemical or sand.

Unsuitable Extinguishing Media • Do not use direct water stream.

Firefighting Procedures • Move containers from fire area if you can do it without risk. Stay upwind.
Combustible dust - use low-pressure medium fog streams to avoid dust clouds.
Eliminate ignition sources.
Do not walk through spilled material.
Do not breathe gas/fumes/vapor/spray.

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards • Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Hazardous Combustion Products • Thermal decomposition, at temperatures in excess of 365°F, may release flammable gases and acrid fumes and smoke, including aldehydes, carbon monoxide, carbon dioxide, and steam.

Advice for firefighters

- Wear positive pressure self-contained breathing apparatus (SCBA).

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions

- Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not walk through spilled material. Keep all sources of ignition

away and avoid creating dusty conditions. Use appropriate Personal Protective Equipment (PPE) Ventilate enclosed areas.

Emergency Procedures

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Contain spill and monitor for excessive dust accumulation. Keep unauthorized personnel away. Ventilate closed spaces before entering.

Environmental precautions

- Avoid release to the environment.

Methods and material for containment and cleaning up

Containment/Clean-up Measures

- Carefully shovel or sweep up spilled material and place in suitable container. Avoid generating dust. Use clean nonsparking tools to collect material. 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. Wear appropriate personal protective equipment, avoid direct contact.

Section 7 - Handling and Storage

Precautions for safe handling

Handling

- Avoid breathing dust. Avoid contact with skin, eyes, and clothing. Take precautionary measures against static charges. Wear appropriate personal protective equipment including long-sleeved shirt, long pants, chemical resistant gloves, shoes and socks. Avoid direct contact. Avoid contact with heat and ignition sources.

Conditions for safe storage, including any incompatibilities

Storage

- Store in cool, dry, secure place. Keep container tightly closed. Keep away from sources of ignition – No Smoking. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store away from strong oxidizing agents.

Incompatible Materials or Ignition Sources

- Heat, sparks, open flame. Strong acids, strong bases, and oxidizing agents.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines

- 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.

Exposure Limits/Guidelines				
	Result	ACGIH	NIOSH	OSHA
Methomyl (16752-77-5)	TWAs	0.2 mg/m ³ TWA (inhalable fraction and vapor)	2.5 mg/m ³ TWA	Not established
Sucrose (57-50-1)	TWAs	10 mg/m ³ TWA	10 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable dust)	15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction)

Exposure Control Notations

ACGIH

- Methomyl (16752-77-5): **Skin:** (Skin - potential significant contribution to overall exposure by the cutaneous route)

Exposure Limits Supplemental

- ACGIH**
- Methomyl (16752-77-5): **TLV Basis - Critical Effects:** (acetylcholinesterase inhibition; male reproductive damage; hematologic effects)
 - Sucrose (57-50-1): **TLV Basis - Critical Effects:** (dental erosion)

Exposure controls

Engineering Measures/Controls

- Local exhaust ventilation. Ensure that dust handling systems (such as exhaust ducts, dust collectors, vessels and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is not leakage from the equipment). Use only appropriately classified electrical equipment. 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.

Personal Protective Equipment

Pictograms



Respiratory

- Not required with normal use.

Eye/Face

- Wear safety glasses.

Hands

- Wear appropriate gloves.

Skin/Body

- Long sleeve shirt, long pants, shoes, and socks should be worn.

General Industrial Hygiene Considerations

- Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Environmental Exposure Controls

- No data available

Other Information

- See product label for specific use PPE instructions.

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description			
Physical Form	Solid	Appearance/Description	Blue granules.
Color	Blue	Odor	No data available.
Odor Threshold	No data available		
General Properties			
Boiling Point	No data available	Melting Point/Freezing Point	No data available
Decomposition Temperature	No data available	pH	Not relevant
Specific Gravity/Relative Density	1.5g/cc @ 20°C (68°F)	Bulk Density	50 lb/ft3 (0.8 g/cc)
Water Solubility	Soluble	Viscosity	Not relevant
Volatility			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available		
Flammability			

Flash Point	Not relevant	UEL	No data available
LEL	No data available	Autoignition	No data available
Flammability (solid, gas)	Data lacking		
Environmental			
Octanol/Water Partition coefficient	No data available		

Section 10: Stability and Reactivity

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.

Chemical stability

- Stable under normal temperatures and pressures.

Possibility of hazardous reactions

- May form combustible dust concentrations in the air.

Conditions to avoid

- Heat, sparks, open flame, other ignition sources, and oxidizing conditions. Strong acids and strong bases.

Incompatible materials

- Strong acids, strong bases and oxidizing agents.

Hazardous decomposition products

- Thermal decomposition may produce toxic vapors and/or gases.

Section 11 - Toxicological Information

Information on toxicological effects

	CAS	
Starbar Premium Fly Bait	NDA	Acute Toxicity: Ingestion/Oral-Rat LD50 • 3106 mg/kg; Inhalation-Rat LC50 • >2.722 mg/L; Skin-Rabbit LD50 • >2100 mg/kg; Irritation: Eye-Rabbit • Mild irritation; Skin-Rabbit • Essentially non-irritating

GHS Properties	Classification
Acute toxicity	OSHA HCS 2012 • Acute Toxicity - Dermal - Classification criteria not met; Acute Toxicity - Inhalation - Classification criteria not met; Acute Toxicity - Oral - Classification criteria not met
Skin corrosion/Irritation	OSHA HCS 2012 • Classification criteria not met
Serious eye damage/Irritation	OSHA HCS 2012 • Classification criteria not met
Skin sensitization	OSHA HCS 2012 • Classification criteria not met
Respiratory sensitization	OSHA HCS 2012 • Classification criteria not met
Aspiration Hazard	OSHA HCS 2012 • Classification criteria not met
Carcinogenicity	OSHA HCS 2012 • Classification criteria not met
Germ Cell Mutagenicity	OSHA HCS 2012 • Classification criteria not met

Toxicity for Reproduction	OSHA HCS 2012 • Classification criteria not met
STOT-SE	OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 1
STOT-RE	OSHA HCS 2012 • Specific Target Organ Toxicity Repeated Exposure 1

Route(s) of entry/exposure • Inhalation, Skin, Eye, Ingestion

Potential Health Effects

Inhalation

- Acute (Immediate)** • Inhalation of methomyl may result in cholinesterase depression.
- Chronic (Delayed)** • Repeated exposure to methomyl via inhalation may result in cholinesterase depression.

Skin

- Acute (Immediate)** • Dermal absorption of methomyl may result in cholinesterase depression.
- Chronic (Delayed)** • Repeated dermal exposure to methomyl may result in cholinesterase depression.

Eye

- Acute (Immediate)** • May cause mild irritation.
- Chronic (Delayed)** • No data available.

Ingestion

- Acute (Immediate)** • Ingestion of methomyl may result in cholinesterase depression.
- Chronic (Delayed)** • Repeated ingestion methomyl may result in cholinesterase depression.

Mutagenic Effects

- 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.

Carcinogenic Effects

- Methomyl is not listed as a carcinogen by the IARC, NTP, OSHA and ACGIH.

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.

Section 12 - Ecological Information

Toxicity

Components		
Methomyl (1%)	16752-77-5	Aquatic Toxicity-Fish: 96 Hour(s) LC50 <i>Rainbow trout</i> 2.49 mg/L [acute] 96 Hour(s) LC50 <i>Blue gill</i> 0.63 mg/L [acute] 96 Hour(s) LC50 <i>Fathead minnow</i> 2.8 mg/L [acute] LC50 <i>Sheepshead minnow</i> 1.16 mg/L [acute] NOEC <i>Fathead minnow</i> 0.076 mg/L [chronic] NOEC <i>Sheepshead minnow</i> 0.26 mg/L [chronic] Aquatic Toxicity-Crustacea: NOEC <i>Daphnia magna</i> 0.0007 mg/L [chronic] NOEC <i>Mysid shrimp</i> 0.029 mg/L [chronic] 48 Hour(s) LC50 <i>Daphnia magna</i> 0.017 mg/L [acute] 96 Hour(s) LC50 <i>Mysid shrimp</i> 0.234 mg/L [acute] LC50 <i>Pink shrimp</i> 0.019 mg/L [acute]
		Aquatic Toxicity-Fish: 96 Hour(s) LC50 <i>Rainbow Trout</i> >1000 mg/L [Acute]

9-Tricosene, (Z) (0.049%)	27519-02-4	96 Hour(s) LC50 <i>Blue Gill</i> >1000 mg/L [Acute] Aquatic Toxicity-Crustacea: 48 Hour(s) LC50 <i>Daphnia magna</i> 1.08 mg/L [Acute]
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Persistence and degradability

- No data available.

Bioaccumulative potential

- No data available.

Mobility in Soil

- No data available.

Other adverse effects**Potential Environmental Effects**

- This pesticide is toxic to: bees, wildlife and fish, aquatic organisms, birds and small wild mammals.

Section 13 - Disposal Considerations**Waste treatment methods****Product waste**

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

- Do not reuse or refill this container. Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. See product label for disposal instructions.

Section 14 - Transport Information

	UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	UN3077	Bulk Packaging Only: Environmentally hazardous substance, solid, n.o.s. (Methomyl)	9	III	Marine Pollutant
IMO/IMDG	UN3077	Packaging 5 kg. or greater: Environmentally hazardous substance, solid, n.o.s. (Methomyl)	9	III	Marine Pollutant
IATA/ICAO	UN3077	Packaging 5 kg. or greater: Environmentally hazardous substance, solid, n.o.s. (Methomyl)	9	III	Acute Aquatic Toxicity

Special precautions for user • None specified.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code • Not relevant.

Other information

- DOT • Environmental Hazards: RQ (Methomyl = 100 lb).
- IMO/IMDG • No data available
- IATA/ICAO • No data available

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • Chronic, Acute, Pressure(Sudden Release of), SARA Title III Section 313

FIFRA – Pesticide Labeling

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.

CAUTION



Precautionary Statements • KEEP OUT OF THE REACH OF CHILDREN.
READ THE LABEL BEFORE USING POTENTIAL SKIN SENSITIZER

Hazards to Humans and Domestic Animals

PMRA Label: PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN. Hazardous to humans and domestic animals: Harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing dust. Avoid contact with skin, eyes or clothing. Do not contaminate feed, water, food or litter. Do not apply where poultry or animals can pick it up or lick the product. Do not use in homes or where food is processed or stored. Do not feed treated garbage to livestock. Use only in areas inaccessible to food producing animals. Wear cotton coveralls over a long-sleeved shirt and long pants, shoes plus socks and chemical-resistant gloves. Follow manufacturer's instructions for cleaning/maintaining personal protective equipment (PPE). If no instructions are available, wash PPE using detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing or other materials that have been drenched or heavily contaminated with this product. Do not reuse them. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

TOXICOLOGICAL INFORMATION: This product contains methomyl, a carbamate insecticide. Poisoning produces effects associated with anticholinesterase activity which may include weakness, blurred vision, headache, nausea, abdominal cramps, discomfort in the chest, constriction of pupils, sweating, slow pulse, muscle tremors. Atropine is antidotal.

First Aid

- **FIRST AID:** If swallowed: Call a poison control centre 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 centre 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. Call a poison control centre or doctor for treatment advice. 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. Call a poison control centre or doctor for treatment advice. If Inhaled: 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 centre or doctor for further treatment advice. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

Environmental Hazards

- This pesticide is toxic to bees, wildlife and fish. Toxic to aquatic organisms. Toxic to

birds and small wild mammals. When this bait is used in an area accessible to birds, it must be placed in a bait station that prevents birds from eating the bait. Spilled fly bait granules must be cleaned up by collecting the bulk of the granules and any remaining on the soil surfaced should be buried. Keep out of lakes, streams or ponds. Do not contaminate water by cleaning of equipment or disposal of wastes. To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay. Avoid application when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body. The use of this chemical may result in contamination of ground water particularly in areas where soils are permeable (e.g. sandy soil) and/or the depth to the water table is shallow.

Inventory		
Component	CAS	TSCA
9-Tricosene, (Z)	27519-02-4	Yes
Methomyl	16752-77-5	No
Sucrose	57-50-1	Yes

United States

Environment

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Sucrose	57-50-1	Not Listed
• 9-Tricosene, (Z)	27519-02-4	Not Listed
• Methomyl	16752-77-5	100 lb final RQ; 45.4 kg final RQ

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

• Sucrose	57-50-1	Not Listed
• 9-Tricosene, (Z)	27519-02-4	Not Listed
• Methomyl	16752-77-5	100 lb EPCRA RQ

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

• Sucrose	57-50-1	Not Listed
• 9-Tricosene, (Z)	27519-02-4	Not Listed
• Methomyl	16752-77-5	500 lb lower TPQ; 10000 lb upper TPQ

U.S. - RCRA (Resource Conservation & Recovery Act) - Hazardous Constituents - Appendix VIII to 40 CFR 261

• Sucrose	57-50-1	Not Listed
• 9-Tricosene, (Z)	27519-02-4	Not Listed
• Methomyl	16752-77-5	waste number P066

U.S. - RCRA (Resource Conservation & Recovery Act) - P Series Wastes - Acutely Toxic Wastes

• Sucrose	57-50-1	Not Listed
• 9-Tricosene, (Z)	27519-02-4	Not Listed
• Methomyl	16752-77-5	waste number P066

Section 16 - Other Information

Revision Date	• 21/January/2016
Last Revision Date	• 21/January/2016
Preparation Date	• 21/January/2016

Disclaimer/Statement of Liability

- The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.