

SECTION 1: Identification

1.1. Identification

Product form : Mixture
 Name : Starbar Aviator Fly Bait Aerosol
 Synonyms : EPA Reg. No.: 89459-128, 100546299, RF2240 AZ Aerosol II

1.2. Recommended use and restrictions on use

Recommended use : Insecticide.
 Restrictions on use : Keep out of reach of children. Avoid contact with eyes, skin or clothing. Keep away from heat, sparks and flame. Do NOT take internally. Use in well ventilated area.

1.3. Supplier

Central Garden & Pet
 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

Flammable aerosol Category 2	Flammable aerosol
Gases under pressure Compressed gas	Contains gas under pressure; may explode if heated
Aspiration hazard Category 1	May be fatal if swallowed and enters airways

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :


 GHS02


 GHS04


 GHS08

Signal word (GHS US) : Danger

Hazard statements (GHS US) : Flammable aerosol
 Contains gas under pressure; may explode if heated
 May be fatal if swallowed and enters airways

Precautionary statements (GHS US) : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 Do not spray on an open flame or other ignition source.
 Pressurized container: Do not pierce or burn, even after use.
 If swallowed: Immediately call a poison center or doctor.
 Do NOT induce vomiting.
 Store locked up.
 Store in a well-ventilated place.
 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : This pesticide is toxic to aquatic invertebrates. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

2.4. Unknown acute toxicity (GHS US)

Not applicable

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SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
Acetamiprid	(CAS-No.) 135410-20-7	0.5
Z-9-Tricosene	(CAS-No.) 27519-02-4	0.05
* Trade secret	(CAS-No.) Trade secret	13.5 – 15
Isopropyl alcohol	(CAS-No.) 67-63-0	0.15 – 1.5
Propane	(CAS-No.) 74-98-6	5 – 10
Butane	(CAS-No.) 106-97-8	5 – 10
Proprietary disaccharide	(CAS-No.) 57-50-1	35
Non-hazardous and/or does not meet criteria for classification	(CAS-No.) N/A	Balance

Comments : * The specific chemical identity and/or exact percentage (concentration) has been withheld as a trade secret

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.
- 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)

- Symptoms/effects after ingestion : Aspiration Hazard - may be fatal if swallowed and enters airways.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Water spray. Dry powder. Alcohol-resistant foam. Carbon dioxide.
- Unsuitable extinguishing media : Avoid heavy hose streams.

5.2. Specific hazards arising from the chemical

- Fire hazard : Flammable aerosol.
- Explosion hazard : Contains gas under pressure; may explode if heated.
- Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : In case of fire: Stop leak if safe to do so. Do not use direct stream of water. A direct stream of water may spread fire. Ventilate closed spaces before entering. Do not breathe gas/fumes/vapor/spray. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. Flammable aerosols exposed to high temperatures may rupture, rocket and cause secondary hazards.
- 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

- General measures : Approach leaking or punctured pressurized containers cautiously. Isolate leaking container from all sources of ignition. Avoid breathing fumes. Ventilate enclosed areas.

6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area. Wear appropriate personal protective equipment, avoid direct contact.

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.

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Emergency procedures : As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stay upwind. Ventilate area. Wear appropriate personal protective equipment, avoid direct contact. Flammable aerosols exposed to high temperatures may rupture, rocket and cause secondary hazards. Contents under pressure. At temperatures above 130°F, container may rupture.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : SMALL SPILLS: Take up with sand or other non-combustible absorbent material and place into containers for later disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Do not use or store near heat or open flame. Exposure to temperatures above 130°F may cause bursting. Do not smoke while using this product. Do not allow product to freeze. Contents under pressure, do not crush, puncture or incinerate. Avoid breathing fumes. Avoid breathing vapor or spray mist.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a cool, dry place. Keep out of reach of children. Keep away from sources of ignition – No Smoking. Store in a well-ventilated place. Keep container tightly closed. Keep at a temperature not exceeding 120°F. Keep from freezing. NFPA Aerosol Classification: Level 1. Protect from sunlight. Store locked up.

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

* Trade secret (Trade secret)		
ACGIH	ACGIH OEL STEL [ppm]	1000 ppm
ACGIH	Remark (ACGIH)	URT irr
OSHA	OSHA PEL TWA [1]	1900 mg/m ³
OSHA	OSHA PEL TWA [2]	1000 ppm
IDLH	IDLH [ppm]	3300 ppm (10% LEL)
NIOSH	NIOSH REL TWA	1900 mg/m ³
NIOSH	NIOSH REL TWA [ppm]	1000 ppm
Isopropyl alcohol (67-63-0)		
ACGIH	ACGIH OEL TWA [ppm]	200 ppm
ACGIH	ACGIH OEL STEL [ppm]	400 ppm
ACGIH	Remark (ACGIH)	Eye & URT irr; CNS impair
OSHA	OSHA PEL TWA [1]	980 mg/m ³
OSHA	OSHA PEL TWA [2]	400 ppm
IDLH	IDLH [ppm]	2000 ppm (10% LEL)
NIOSH	NIOSH REL TWA	980 mg/m ³
NIOSH	NIOSH REL TWA [ppm]	400 ppm
NIOSH	NIOSH REL STEL	1225 mg/m ³
NIOSH	NIOSH REL STEL [ppm]	500 ppm
Propane (74-98-6)		
ACGIH	Remark (ACGIH)	Simple Asphyxiant
OSHA	OSHA PEL TWA [1]	1800 mg/m ³
OSHA	OSHA PEL TWA [2]	1000 ppm

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Propane (74-98-6)		
IDLH	IDLH [ppm]	2100 ppm (10% LEL)
NIOSH	NIOSH REL TWA	1800 mg/m ³
NIOSH	NIOSH REL TWA [ppm]	1000 ppm
Butane (106-97-8)		
ACGIH	ACGIH OEL STEL [ppm]	1000 ppm
NIOSH	NIOSH REL TWA	1900 mg/m ³
NIOSH	NIOSH REL TWA [ppm]	800 ppm
Proprietary disaccharide (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.
- Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

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.



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Appearance : Colorless opaque aerosol spray
- Color : Colorless, opaque
- Odor : Alcohol
- Odor threshold : No data available
- pH : 6.29 @ 25 °C (77 °F)
- Melting point : Not applicable
- Freezing point : No data available
- Boiling point : No data available
- Flash point : 27 °C (80 °F) (propellant-free concentrate)
- Relative evaporation rate (butyl acetate=1) : No data available
- Flammability : Not applicable
- Vapor pressure : No data available

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Relative vapor density at 20 °C	: No data available
Relative density	: 1.1447 @ 25 °C (77 °F)
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 16 Pa·s
Explosion limits	: No data available
Explosive properties	: Not explosive
Oxidizing properties	: Not applicable
VOC content	: 30.04 % w/w
Flame extension	: 6 in
Heat of combustion	: 11.9 KJ/g

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Aerosols exposed to high temperatures may rupture, rocket and cause secondary hazards. Hazardous polymerization will not occur.

10.4. Conditions to avoid

Heat, sparks, open flame. Excess heat. Avoid direct sunlight. Keep from freezing.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

10.6. Hazardous decomposition products

Hazardous decomposition may occur when heated producing oxides of carbon and nitrogen, volatile hydrocarbon vapors.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Starbar Aviator Fly Bait Aerosol	
LD50 oral rat	> 5000 mg/kg (propellant-free concentrate)
LD50 dermal rabbit	> 5000 mg/kg (propellant-free concentrate)
LC50 Inhalation - Rat	> 2.08 mg/l/4h (propellant-free concentrate)
Vaporizer	Aerosol

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

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Aspiration hazard	May be fatal if swallowed and enters airways.
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Potential health effects

Inhalation

Acute : May cause drowsiness and dizziness.

Skin

Acute : May cause mild skin irritation.

Eye

Acute : May cause mild eye irritation.

Ingestion

Acute : Aspiration hazard - small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.

Mutagenicity : Acetamiprid did not cause DNA damage in in vivo assays. Z-9 Tricosene is not expected to be a mutagen.

Carcinogenicity : Z-9 Tricosene is not listed as a carcinogen by NTP, IARC and OSHA. Acetamiprid is not classified as a carcinogen by NTP, IARC or OSHA.

Reproductive Effects : Acetamiprid did not cause DNA damage in in vivo assays. Z-9 Tricosene did not produce developmental effects in rats. Z-9 Tricosene is not a teratogen.

SECTION 12: Ecological information

12.1. Toxicity

Acetamiprid (135410-20-7)	
LC50 Acute fish 1	100 mg/l (Exposure time: na - Rainbow trout)
LC50 Acute fish 2	100 (Exposure time: na - Sheepshead minnow)
LC50 Acute crustacea 1	0.066 mg/l (Exposure time: na - Mysid shrimp)
LC50 Acute crustacea 2	0.08 mg/l (Exposure time: na - Gammarus fasciatus (amphipod))
NOEC Chronic fish 1	19.2 mg/l (Fathead minnow)
NOEC Chronic crustacea 1	5 mg/l (Daphnia magna)
NOEC Chronic crustacea 2	0.018 (Gammarus fasciatus (amphipod))
NOEC Chronic crustacea 3	0.0025 (Mysid shrimp)
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

No data available

12.4. Mobility in soil

No data available

12.5. Other adverse effects

Starbar Aviator Fly Bait Aerosol	
Ecological Fate	This pesticide is toxic to aquatic invertebrates. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds.

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. Do not puncture or incinerate. Nonrefillable container. See product label for container disposal instructions.

SECTION 14: Transport information

UN number	Proper Shipping Name	Transport hazard class(es)	Packing group	Environmental hazards
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DOT	UN1950	Aerosols	2.1	Not applicable	Not applicable
IMDG	UN1950	Aerosols	2.1	Not applicable	Not applicable
IATA	UN1950	Aerosols, flammable	2.1	Not applicable	Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

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

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

* Trade secret (Trade secret)

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

Isopropyl alcohol (67-63-0)

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

Subject to reporting requirements of United States SARA Section 313

SARA Section 313 - Emission Reporting 1 % (only if manufactured by the strong acid process, no supplier notification)

Propane (74-98-6)

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

Butane (106-97-8)

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

Proprietary disaccharide (57-50-1)

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

EPA Labelling

EPA Registration Number 89459-128

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 Precautionary statements KEEP OUT OF REACH OF CHILDREN.

FIFRA Environmental hazards This pesticide is toxic to aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in water adjacent to treated areas. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are foraging in the treatment area.

FIFRA Physical hazards Contents under pressure. Do not use or store near heat or open flame. Do not puncture or incinerate container. Exposure to temperatures above 130° F may cause bursting.

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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