



Safety Data Sheet

Section 1: Identification

Product identifier

Product Name

- **Starbar QuikStrike Fly Abatement Strip**

Synonyms

- 25100D; EPA Reg. No.: 2724-461; Sandoz 9023 Fly Bait Station

Product Description

- Yellow strip enclosed in perforated plastic holder with ampoule containing clear pale yellow to amber liquid.

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

Recommended use

- Fly attractant.

Restrictions on use

- **KEEP OUT OF THE REACH OF CHILDREN.** Avoid contact with eyes, skin and clothing. Do not use or store near heat or open flame.

Details of the supplier of the safety data sheet

Manufacturer

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

Emergency telephone number

Manufacturer (Transportation) • 1-800-424-9300 - CHEMTREC

Manufacturer (Transportation) • 1-703-527-3887 - CHEMTREC - Outside North America - Collect Calls Accepted

Manufacturer • 1-800-347-8272

Section 2: Hazard Identification

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012

- Flammable Liquids 4
Skin Corrosion 1B
Serious Eye Damage 1
Skin Sensitization 1A

Label elements

OSHA HCS 2012

DANGER



- Hazard statements** • May cause an allergic skin reaction
 Combustible liquid
 Causes severe skin burns and eye damage.
 Causes serious eye damage

Precautionary statements

- Prevention** • Do not breathe dusts or mists.
 Wash thoroughly after handling.
 Wear protective gloves/protective clothing/eye protection/face protection.
 Contaminated work clothing should not be allowed out of the workplace.
 Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
- Response** • IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 Immediately call a POISON CENTER or doctor/physician.
 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 Wash contaminated clothing before reuse.
 IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
 In case of fire: Use appropriate media water spray, dry chemical, foam or CO₂ for extinction.
- Storage/Disposal** • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
 Store in a well-ventilated place. Keep cool.
 Store locked up.

Other hazards

OSHA HCS 2012

- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Section 3 - Composition/Information on Ingredients

Substances

- Material does not meet the criteria of a substance.

Mixtures

Composition		
Chemical Name	Identifiers	%
9-Tricosene, (Z) (Ampoule)	CAS:27519-02-4	22.3%
Butyric acid (Ampoule)	CAS:107-92-6	33.3%
Trimethylamine, hydrochloride (Ampoule)	CAS:593-81-7	33.4%
Nithiazine (2H-1,2-Thiazine, Tetrahydro-2-(nitromethylene) (Strip)	CAS:58842-20-9	1%
Corn Starch (Strip)	CAS:9005-25-8	5% TO 10%
Sucrose (Strip)	CAS:57-50-1	10% TO 20%

Section 4: First-Aid Measures

Description of first aid measures

Inhalation

- IF INHALED: If breathing is difficult, remove person to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or doctor for further treatment advice.

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: Do not induce vomiting unless told to by a poison control center or doctor. Get medical attention if symptoms occur.

Most important symptoms and effects, both acute and delayed

- Causes serious eye damage, causes skin burns, may cause an allergic skin reaction in individuals with a sensitivity to Z-9 Tricosene. Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

- Treat symptomatically and supportively.

Section 5: Fire-Fighting Measures

Extinguishing media

- Suitable Extinguishing Media**
- LARGE FIRE: Water spray, fog or regular foam.
 - SMALL FIRES: Dry chemical, CO₂, water spray or regular foam.

Unsuitable Extinguishing Media

- Avoid heavy hose streams.

Firefighting Procedures

- LARGE FIRES: Move containers from fire area if you can do it without risk. Stay upwind. Ventilate closed spaces before entering. Do not breathe gas/fumes/vapor/spray.

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards

- Ampoule: Combustible liquid.

Hazardous Combustion Products

- Ampoule: Combustible liquid - may produce carbon dioxide and/or carbon monoxide upon heating.
Strip: Decomposes upon heating and may produce toxic vapors/gases. Incomplete combustion can also produce formaldehyde. Potentially toxic/irritating fumes may be evolved from heated material. At temperatures (>350°F, >177°C), polyethylenes can release vapors and gases, which are irritating to the mucous membranes of the eyes, mouth, throat, and lungs.

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 walk through spilled material. Ventilate enclosed areas. Wear appropriate personal protective equipment, avoid direct contact.

Emergency Procedures

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ventilate closed spaces before entering.

Environmental precautions

- LARGE SPILLS: Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Containment/Clean-up Measures

- Absorb spills with an inert material, clay granules or other inert absorbent material and put in container for disposal.

Section 7 - Handling and Storage

Precautions for safe handling

Handling

- Keep away from fire - No Smoking. Avoid breathing fumes. Use only in well ventilated areas. Wear appropriate personal protective equipment, avoid direct contact.

Conditions for safe storage, including any incompatibilities

Storage

- Store in a cool/low-temperature, well-ventilated dry place away from heat and ignition sources.

Incompatible Materials or Ignition Sources

- Heat, sparks, open flame. Oxidizing agents.

Other Information

- See product label for additional information.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines

- No data available.

Exposure Limits/Guidelines				
	Result	ACGIH	NIOSH	OSHA
Corn Starch (Strip) (9005-25-8)	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)
Sucrose (Strip) (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 controls

Engineering Measures/Controls

- Use adequate ventilation to remove vapors (fumes, dust, etc.)

Personal Protective Equipment

Pictograms

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Respiratory

- In case of insufficient ventilation, wear suitable NIOSH approved respiratory protection.

Eye/Face	• Wear chemical splash safety goggles.
Hands	• Wear appropriate gloves.
Skin/Body	• Long sleeve shirt, long pants, shoes, and socks should be worn.
Environmental Exposure Controls	• Avoid release to the environment.

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Yellow strip enclosed in perforated plastic holder with ampoule containing clear pale yellow to amber liquid.
Color	Strip: yellow. Ampoule: pale yellow to amber.	Odor	Chemical-like
Odor Threshold	No data available		
General Properties			
Boiling Point	No data available	Melting Point/Freezing Point	Nithiazine (2H-1,2-Thiazine, Tetrahydro-2-(nitromethylene) will decompose before melting.
Decomposition Temperature	No data available	pH	Strip: 10.4 in 1% aq. solution
Specific Gravity/Relative Density	Strip: 1.16 Water = 1	Bulk Density	Strip: 60 lb(s)/ft ³
Water Solubility	No data available	Viscosity	No data available
Critical Temperature	No data available		
Volatility			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available		
Flammability			
Flash Point	Ampoule: 161°F (71.7°C)	UEL	No data available
LEL	No data available	Autoignition	No data available
Flammability (solid, gas)	No data available		
Environmental			
Octanol/Water Partition coefficient	No data available		

Section 10: Stability and Reactivity

Reactivity

- Non-reactive

Chemical stability

- Stable

Possibility of hazardous reactions

- Hazardous polymerization will not occur.

Conditions to avoid

- Heat, sparks, open flame, other ignition sources, and oxidizing conditions.

Incompatible materials

- Store away from oxidizers.

Hazardous decomposition products

- May decompose upon heating to produce toxic vapors/gases which may include carbon monoxide and carbon dioxide. Strip: Incomplete combustion can also produce formaldehyde. Potentially toxic/irritating fumes may be evolved from heated material. At temperatures (>350°F, >177°C), polyethylenes can release vapors and gases, which are irritating to the mucous membranes of the eyes, mouth, throat, and lungs.

Section 11 - Toxicological Information

Information on toxicological effects

	CAS	
Starbar QuikStrike Fly Abatement Strip	NDA	Irritation: Eye-Rabbit • Mild irritation • Comments: Strip; Skin-Rabbit • Mild irritation • Comments: Strip
Components		
9-Tricosene, (Z) (Ampoule) (22.3%)	27519-02-4	Acute Toxicity: Ingestion/Oral-Rat LD50 • >5000 mg/kg; Inhalation-Rat LC50 • >5 mg/L; Skin-Rabbit LD50 • >2000 mg/kg; Irritation: Eye-Rabbit • Mild irritation; Skin-Rabbit • Mild irritation
Nithiazine (2H-1,2-Thiazine, Tetrahydro-2-(nitromethylene) (Strip) (1%)	58842-20-9	Acute Toxicity: Ingestion/Oral-Rat LD50 • 285-314 mg/kg; Skin-Rat LD50 • >2000 mg/kg

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 • Skin Corrosion 1B
Serious eye damage/Irritation	OSHA HCS 2012 • Serious Eye Damage 1
Skin sensitization	OSHA HCS 2012 • Skin Sensitizer 1A
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 • Classification criteria not met
STOT-RE	OSHA HCS 2012 • Classification criteria not met

Potential Health Effects

Inhalation

- Acute (Immediate)** • Ampoule: May cause nasal and respiratory irritation.
- Chronic (Delayed)** • No data available

Skin

- Acute (Immediate)** •

Ampoule: May cause an allergic skin reaction in individuals with a sensitivity to Z-9 Tricosene. Causes serious skin burns.

Chronic (Delayed)

- No data available

Eye

Acute (Immediate)

- Ampoule: Causes serious eye damage.

Chronic (Delayed)

- No data available

Ingestion

Acute (Immediate)

- Ampoule: May be harmful if swallowed.

Chronic (Delayed)

- No data available

Mutagenic Effects

- Nithiazine has been tested and found negative for mutagenicity potential.

Carcinogenic Effects

- Z-9 Tricosene is not classified as a carcinogen by NTP, IARC and OSHA. No other components present at 0.1% or greater are listed by IARC, OSHA or NTP.

Reproductive Effects

- Nithiazine has been tested and does not cause birth defects.

Section 12 - Ecological Information

Toxicity

Components		
9-Tricosene, (Z) (Ampoule) (22.3%)	27519-02-4	Aquatic Toxicity-Fish: 96 Hour(s) LC50 <i>Rainbow Trout</i> >1000 mg/L [Acute] 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]
Nithiazine (2H-1,2-Thiazine, Tetrahydro-2-(nitromethylene) (Strip) (1%)	58842-20-9	Aquatic Toxicity-Fish: 96 Hour(s) LC50 <i>Rainbow trout</i> 110 mg/L [Acute] 96 Hour(s) LC50 <i>Blue gill</i> 140 mg/L [Acute] Aquatic Toxicity-Crustacea: 48 Hour(s) LC50 <i>Daphnia magna</i> 33 mg/L [Acute]

Persistence and degradability

- No data available.

Bioaccumulative potential

- No data available.

Mobility in Soil

- No data available.

Other adverse effects

Potential Environmental Effects

- No data available.

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

- 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	Not Applicable	Not Regulated	Not Applicable	Not Applicable	Not Applicable
IMO/IMDG	UN 1993	Flammable liquids, n.o.s. (Butyric acid)	3	III	Not Applicable
IATA/ICAO	UN 1993	Flammable liquids, n.o.s. (Butyric acid)	3	III	Not Applicable

Special precautions for user • None specified.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code • No data available

Other information

DOT • Environmental Hazards: RQ Butyric acid = 5000 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 • Acute

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.

Hazards to Humans and Domestic Animals • Avoid contact with eyes.

First Aid •

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 center or doctor for treatment advice.

Inventory		
Component	CAS	TSCA
9-Tricosene, (Z) (Ampoule)	27519-02-4	Yes
Butyric acid (Ampoule)	107-92-6	Yes
Corn Starch (Strip)	9005-25-8	Yes

Nithiazine (2H-1,2-Thiazine, Tetrahydro-2-(nitromethylene) (Strip)	58842-20-9	No
Sucrose (Strip)	57-50-1	Yes
Trimethylamine, hydrochloride (Ampoule)	593-81-7	Yes

United States

Environment

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

• Butyric acid (Ampoule)	107-92-6	5000 lb final RQ; 2270 kg final RQ
• Sucrose (Strip)	57-50-1	Not Listed
• Corn Starch (Strip)	9005-25-8	Not Listed
• Trimethylamine, hydrochloride (Ampoule)	593-81-7	Not Listed
• 9-Tricosene, (Z) (Ampoule)	27519-02-4	Not Listed
• Nithiazine (2H-1,2-Thiazine, Tetrahydro-2-(nitromethylene) (Strip)	58842-20-9	Not Listed

Section 16 - Other Information

Revision Date	• 11/April/2016
Last Revision Date	• 11/April/2016
Preparation Date	• 11/April/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.