

SECTION 1: Identification         1.1.       Identification         Product form       : Mixture         Trade name       : Starbar QuikStrike Fly Abatement Strip         Synonyms       : EPA Reg. No.: 2724-461, 25100D         1.2.       Recommended use and restrictions on use         Recommended use       : Insect growth regulator. Insecticide.         Restrictions on use       : Keep out of reach of children. Do not use or store near heat eyes, skin or clothing.         1.3.       Supplier         Wellmark International       1501 E. Woodfield Road, Suite 200W         Schaumburg, IL 60173 - United States       States	or open flame. Avoid contact with
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Wellmark International 1501 E. Woodfield Road, Suite 200W	
1501 E. Woodfield Road, Suite 200W	
Schaumburg, IL 60173 - United States	
vww.quikstrike.com	
I.4. Emergency telephone number	
Emergency number : 1-800-424-9300 - CHEMTREC 1-703-527-3887 - CHEMTREC - Outside North America - Co	ollect Calls Accepted
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or mixture	
GHS-US classification	
Flammable liquids Category 4 Combustible liquid	
Skin corrosion/irritation Category 1B Causes severe skin burns and eye damage	
Serious eye damage/eye irritation Category 1 Causes serious eye damage Skin sensitization, category 1A May cause an allergic skin reaction	
2.2. GHS Label elements, including precautionary statements GHS-US labeling	
Hazard pictograms (GHS-US) :	
Signal word (GHS-US) : Danger	
Hazard statements (GHS-US) : Combustible liquid	
Causes severe skin burns and eye damage	
May cause an allergic skin reaction Causes serious eye damage	
Precautionary statements (GHS-US) : Keep away from heat, hot surfaces, sparks, open flames and	d other ignition sources. No
smoking.	
smoking. Do not breathe dust/fume/gas/mist/vapors/spray.	
smoking. Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands, forearms and face thoroughly after handling.	vorkolace
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smoking. Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands, forearms and face thoroughly after handling. Contaminated work clothing must not be allowed out of the v Wear protective gloves/protective clothing/eye protection/face If swallowed: rinse mouth. Do NOT induce vomiting If on skin (or hair): Take off immediately all contaminated clo water/shower If inhaled: Remove person to fresh air and keep comfortable If in eyes: Rinse cautiously with water for several minutes. R and easy to do. Continue rinsing Immediately call a poison center or doctor	ce protection. othing. Rinse skin with e for breathing Remove contact lenses, if present
smoking. Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands, forearms and face thoroughly after handling. Contaminated work clothing must not be allowed out of the v Wear protective gloves/protective clothing/eye protection/fac If swallowed: rinse mouth. Do NOT induce vomiting If on skin (or hair): Take off immediately all contaminated clo water/shower If inhaled: Remove person to fresh air and keep comfortable If in eyes: Rinse cautiously with water for several minutes. R and easy to do. Continue rinsing Immediately call a poison center or doctor If skin irritation or rash occurs: Get medical advice/attention.	ce protection. othing. Rinse skin with e for breathing Remove contact lenses, if present
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# Starbar QuikStrike Fly Abatement Strip Safety Data Sheet

Dispose of contents/container to in accordance with local/regional/national/international regulations

Other hazards not contributing to the classification	: Under United States Regulations (2 product is considered hazardous.	29 CFR 1910.1200 - Hazard Communicatio	on Standard), this
2.4. Unknown acute toxicity (GHS U	· · · · · · · · · · · · · · · · · · ·		
lot applicable	-,		
ECTION 3: Composition/Inform	ation on ingredients		
.1. Substances			
lot applicable			
.2. Mixtures			
Name		Product identifier	%
9-Tricosene, (Z) (Ampoule)		(CAS-No.) 27519-02-4	22.3
Butyric acid (Ampoule)		(CAS-No.) 107-92-6	33.3
Trimethylamine, hydrochloride (Ampoule)		(CAS-No.) 593-81-7	33.4
Nithiazine (2H-1,2-Thiazine, Tetrahydro-2-(nitror	methylene) (Strip)	(CAS-No.) 58842-20-9	1
Corn starch (Strip)		(CAS-No.) 9005-25-8	5 - 10
Sucrose		(CAS-No.) 57-50-1	10 - 20
Other ingredients		(CAS-No.) N/A	Balance
ECTION 4: First-aid measures			
1. Description of first aid measure	95		
rst-aid measures after inhalation	: IF INHALED: Remove person to fre CENTER or doctor/physician if you	esh air and keep comfortable for breathing. feel unwell.	Call a POISON
irst-aid measures after skin contact		pap and water. Rinse skin with water/show	
	advice/attention.	othing. If skin irritation or rash occurs: Get	medical
irst-aid measures after eye contact	advice/attention. : IF IN EYES: Rinse cautiously with v	water for several minutes. Remove contact	lenses, if present
	<ul> <li>advice/attention.</li> <li>IF IN EYES: Rinse cautiously with v and easy to do. Continue rinsing. If</li> <li>IF SWALLOWED: Call a POISON (</li> </ul>	0	lenses, if present and attention.
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<ul> <li>irst-aid measures after ingestion</li> <li>2. Most important symptoms and ymptoms/effects after skin contact</li> </ul>	advice/attention. : IF IN EYES: Rinse cautiously with v and easy to do. Continue rinsing. If : IF SWALLOWED: Call a POISON ( Do NOT induce vomiting unless dir effects (acute and delayed) : Causes skin burns. May cause an a	water for several minutes. Remove contact eye irritation persists: Get medical advice CENTER or doctor/physician if you feel unv ected to do so by medical personnel.	lenses, if present and attention. well. Rinse mouth.
<b>2.</b> Most important symptoms and ymptoms/effects after skin contact	<ul> <li>advice/attention.</li> <li>IF IN EYES: Rinse cautiously with v and easy to do. Continue rinsing. If</li> <li>IF SWALLOWED: Call a POISON ( Do NOT induce vomiting unless dir effects (acute and delayed)</li> <li>Causes skin burns. May cause an a Tricosene.</li> <li>Causes serious eye damage.</li> </ul>	water for several minutes. Remove contact eye irritation persists: Get medical advice CENTER or doctor/physician if you feel unv ected to do so by medical personnel.	lenses, if present and attention. well. Rinse mouth.
<ul> <li>irst-aid measures after ingestion</li> <li>.2. Most important symptoms and ymptoms/effects after skin contact</li> <li>ymptoms/effects after eye contact</li> <li>.3. Immediate medical attention an</li> </ul>	advice/attention. : IF IN EYES: Rinse cautiously with v and easy to do. Continue rinsing. If : IF SWALLOWED: Call a POISON ( Do NOT induce vomiting unless dim effects (acute and delayed) : Causes skin burns. May cause an a Tricosene.	water for several minutes. Remove contact eye irritation persists: Get medical advice CENTER or doctor/physician if you feel unv ected to do so by medical personnel.	lenses, if present and attention. well. Rinse mouth.
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Safety Data Sheet

6.1.2.	For emergency responders	
Protectiv	ve equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: Exposure controls/personal protection.
Emerge	ncy procedures	: ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Evacuate unnecessary personnel. Stop leak if safe to do so. Ventilate area. Stay upwind. Wear appropriate personal protective equipment, avoid direct contact.
6.2.	Environmental precautions	
Avoid re	lease to the environment.	
6.3.	Methods and material for containme	nt and cleaning up
Methods	s for cleaning up	: Absorb spills with an inert material, clay granules or other inert absorbent material and put in container for disposal. Keep away from fire, sparks, and heated surfaces.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Avoid contact with skin and eyes.	
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, includin	ig any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not refrigerate. Store in a cool (below 77°F/25°C) dry place inaccessible to children and pets.
Incompatible materials	: Heat, sparks, open flame. Strong oxidizers.

# SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

Corn starch (Strip)	(9005-25-8)	
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
ACGIH	Remark (ACGIH)	Dermatitis
OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable fraction)
NIOSH	NIOSH REL (TWA) (mg/m³)	10 mg/m³ (total dust) 5 mg/m³ (respirable dust)
Sucrose (57-50-1)		
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
ACGIH	Remark (ACGIH)	Dental erosion
OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable fraction)
NIOSH	NIOSH REL (TWA) (mg/m³)	10 mg/m³ (total dust) 5 mg/m³ (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:

Wear chemical splash safety goggles

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#### 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** Information on basic physical and chemical properties 9.1. Physical state : Liquid Appearance . 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 pН Strip: 10.4 in 1% ag. solution : Nithiazine (2H-1,2-Thiazine, Tetrahydro-2-(nitromethylene) will decompose before melting. Melting point : No data available Freezing point Boiling point : No data available : 71.7 °C (161° F) Flash point Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : Not applicable Vapor pressure : No data available Relative vapor density at 20 °C : No data available Relative density : Strip: 1.16 Water = 1 Bulk density · Strip: 60 lb(s)/ft3 Solubility : No data available Log Pow : No data available : No data available Auto-ignition temperature Decomposition temperature : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available Explosion limits : No data available Explosive properties : Not explosive : Not applicable Oxidizing properties 9.2. **Other information**

No additional information available

SECT	ION 10: Stability and reactivity		
10.1.	Reactivity		
No addi	No additional information available		
10.2.	Chemical stability		
Stable under normal conditions.			
10.3.	Possibility of hazardous reactions		
No dang	No dangerous reactions known under normal conditions of use.		
10.4.	Conditions to avoid		
Avoid co	ontact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.		
10.5.	Incompatible materials		
Strong of	Strong oxidizing agents.		

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### 10.6. Hazardous decomposition 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.

### **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Starbar QuikStrike Fly Abatement Strip		
рН	Strip: 10.4 in 1% aq. solution	
9-Tricosene, (Z) (Ampoule) (27519-02-4)		
LD50 oral rat	> 5000 mg/kg	
LD50 dermal rabbit	> 2000 mg/kg	
LC50 inhalation rat (mg/l)	> 5 mg/l	
Nithiazine (2H-1,2-Thiazine, Tetrahydro-2-(nitromethylene) (Strip) (58842-20-9)		
LD50 oral rat	285 - 314 mg/kg	
LD50 dermal rat	> 2000 mg/kg	

GHS-US Properties	Classification	
Acute toxicity	Not classified	
Skin corrosion/irritation	Causes severe skin burns and eye damage.	
Serious eye damage/irritation	Causes serious eye damage.	
Respiratory or skin sensitization	May cause an allergic skin reaction.	
Germ cells mutagen	Not classified	
Carcinogenicity	Not classified	
Reproductive toxicity	Not classified	
Specific target organ toxicant (single exposure)	Not classified	
Specific target organ toxicant (repeated exposure)	Not classified	
Aspiration hazard	Not classified	

#### Potential health effects

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Inhalation	
Acute	: Ampoule: May cause nasal and respiratory irritation.
Skin	
Acute	: Ampoule: May cause an allergic skin reaction in individuals with a sensitivity to Z-9 Tricosene. Causes serious skin burns.
Eye	
Acute	: Ampoule: Causes serious eye damage.
Ingestion	
Acute	: Ampoule: May be harmful if swallowed.
Mutagenicity	: Not classified. Nithiazine has been tested and found negative for mutagenicity potential.
Carcinogenicity	: Z-9 Tricosene is not classified as a carcinogen by NTP, IARC and OSHA.
Reproductive Effects	: Nithiazine has been tested and does not cause birth defects.

## **SECTION 12: Ecological information**

12.1. Toxicity

9-Tricosene, (Z) (Ampoule) (27519-02-4)	
LC50 Acute fish 1	> 1000 mg/l (Exposure time: 96h - Rainbow trout)
LC50 Acute fish 2	> 1000 mg/l (Exposure time: 96h - Blue gill)
EC50 Daphnia 1	1.08 mg/l (Exposure time: 48h - Daphnia magna)
Nithiazine (2H-1,2-Thiazine, Tetrahydro-2-(nitromethylene) (Strip) (58842-20-9)	

LC50 Acute fish 1	110 mg/l (Exposure time: 96h - Rainbow trout)	
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Nithiazine (2H-1,2-Thiazine, Tetrahydro-2-(nitromethylene) (Strip) (58842-20-9)		
LC50 Acute fish 2	140 mg/l (Exposure time: 96h - Blue gill)	
EC50 Daphnia 1	33 mg/l (Exposure time: 48h - Daphnia magna)	

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. **Bioaccumulative potential**

No additional information available

#### Mobility in soil 12.4.

No additional information available

#### 12.5. Other adverse effects

No additional information available

## 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	UN2820	Butyric Acid Mixture	8	III	RQ: Butyric acid = 5,000 lbs.		
IMDG	UN2820	Butyric Acid Mixture	8	III	Not applicable		
ΙΑΤΑ	UN2820	Butyric Acid Mixture	8	Ш	Not applicable		

### SECTION 15: Regulatory information 15.1. US Federal regulations 9-Tricosene, (Z) (Ampoule) (27519-02-4) Listed on the United States TSCA (Toxic Substances Control Act) inventory Butyric acid (Ampoule) (107-92-6) Listed on the United States TSCA (Toxic Substances Control Act) inventory CERCLA RQ 5000 lb Trimethylamine, hydrochloride (Ampoule) (593-81-7) Listed on the United States TSCA (Toxic Substances Control Act) inventory Corn starch (Strip) (9005-25-8) Listed on the United States TSCA (Toxic Substances Control Act) inventory EPA TSCA Regulatory Flag XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711). Sucrose (57-50-1) Listed on the United States TSCA (Toxic Substances Control Act) inventory **FIFRA Labelling** 2724-461 **EPA Registration Number** 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.

# Starbar QuikStrike Fly Abatement Strip Safety Data Sheet

FIFRA Signal word	Caution
FIFRA Precautionary Statement	KEEP OUT OF REACH OF CHILDREN.
FIFRA Hazards to Humans and Domestic Animals	Avoid contact with eyes.
FIFRA 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.

15.2. US State regulations

No additional information available

<b>SECTION 16: Other info</b>	rmation	
Date of issue	: 11 April 2016	
Revision date	: 28 September 2018	

Indication of changes: Sec. 14 - Revised transportation description.

SDS US (GHS HazCom 2012) - CGP

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