



## 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 CO<sub>2</sub> 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, CO<sub>2</sub>, 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)<br>(9005-25-8) | TWAs   | 10 mg/m <sup>3</sup> TWA | 10 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable dust) | 15 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable fraction) |
| Sucrose (Strip)<br>(57-50-1)       | TWAs   | 10 mg/m <sup>3</sup> TWA | 10 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable dust) | 15 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable fraction) |

### Exposure controls

#### Engineering Measures/Controls

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

#### Personal Protective Equipment

##### Pictograms

- 

##### Respiratory

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

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

## Section 9 - Physical and Chemical Properties

### Information on Physical and Chemical Properties

| <b>Material Description</b>         |   |                              |   |
|-------------------------------------|---|------------------------------|---|
| 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                             |                              |   |
| <b>General Properties</b>           |   |                              |   |
| 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 <sup>3</sup>   |
| Water Solubility                    | No data available                             | Viscosity                    | No data available   |
| Critical Temperature                | No data available                             |                              |   |
| <b>Volatility</b>                   |   |                              |   |
| Vapor Pressure                      | No data available                             | Vapor Density                | No data available   |
| Evaporation Rate                    | No data available                             |                              |   |
| <b>Flammability</b>                 |   |                              |   |
| 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                             |                              |   |
| <b>Environmental</b>                |   |                              |   |
| 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        | <b>Irritation:</b> Eye-Rabbit • Mild irritation • Comments: Strip; Skin-Rabbit • Mild irritation • Comments: Strip   |
| <b>Components</b>   |            |  |
| 9-Tricosene, (Z) (Ampoule) (22.3%)                                      | 27519-02-4 | <b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • >5000 mg/kg; Inhalation-Rat LC50 • >5 mg/L; Skin-Rabbit LD50 • >2000 mg/kg;<br><b>Irritation:</b> Eye-Rabbit • Mild irritation; Skin-Rabbit • Mild irritation |
| Nithiazine (2H-1,2-Thiazine, Tetrahydro-2-(nitromethylene) (Strip) (1%) | 58842-20-9 | <b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 285-314 mg/kg; Skin-Rat LD50 • >2000 mg/kg  |

| GHS Properties                       | Classification  |
|--------------------------------------|---|
| <b>Acute toxicity</b>                | OSHA HCS 2012 • Acute Toxicity - Dermal - Classification criteria not met; Acute Toxicity - Inhalation - Classification criteria not met; Acute Toxicity - Oral - Classification criteria not met |
| <b>Skin corrosion/Irritation</b>     | OSHA HCS 2012 • Skin Corrosion 1B   |
| <b>Serious eye damage/Irritation</b> | OSHA HCS 2012 • Serious Eye Damage 1  |
| <b>Skin sensitization</b>            | OSHA HCS 2012 • Skin Sensitizer 1A  |
| <b>Respiratory sensitization</b>     | OSHA HCS 2012 • Classification criteria not met   |
| <b>Aspiration Hazard</b>             | OSHA HCS 2012 • Classification criteria not met   |
| <b>Carcinogenicity</b>               | OSHA HCS 2012 • Classification criteria not met   |
| <b>Germ Cell Mutagenicity</b>        | OSHA HCS 2012 • Classification criteria not met   |
| <b>Toxicity for Reproduction</b>     | OSHA HCS 2012 • Classification criteria not met   |
| <b>STOT-SE</b>                       | OSHA HCS 2012 • Classification criteria not met   |
| <b>STOT-RE</b>                       | 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 | <b>Aquatic Toxicity-Fish:</b> 96 Hour(s) LC50 <i>Rainbow Trout</i> >1000 mg/L [Acute]<br>96 Hour(s) LC50 <i>Blue Gill</i> >1000 mg/L [Acute]<br><b>Aquatic Toxicity-Crustacea:</b> 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 | <b>Aquatic Toxicity-Fish:</b> 96 Hour(s) LC50 <i>Rainbow trout</i> 110 mg/L [Acute]<br>96 Hour(s) LC50 <i>Blue gill</i> 140 mg/L [Acute]<br><b>Aquatic Toxicity-Crustacea:</b> 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

|  |  |
|--|--|
| <b>Revision Date</b>                     | • 11/April/2016  |
| <b>Last Revision Date</b>                | • 11/April/2016  |
| <b>Preparation Date</b>                  | • 11/April/2016  |
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