1. Identification of the Substance/Preparation and of the Company/Undertaking

Product Identifier
Product name KILL ZONE FLYING INSECT KILLER FORMULA 3
Chemical name 7-8110

Other means of identification
Product code FG 419-2182
Synonyms Flying insect killer
Registration number(s) 498-183

Recommended use of the chemical and restrictions on use
Recommended Use Flying and crawling insect killer.
Uses advised against See "USE RESTRICTIONS" on product label.

Details of the supplier of the safety data sheet
Supplier Address Chase Products Co.
2727 Gardner Road
Broadview, IL 60155
708-273-1121

Manufacturer Address Chase Products Co.
2727 Gardner Road
Broadview, IL 60155
708-273-1121

Emergency Telephone Number
Company Phone Number 708-865-1000
24 Hour Emergency Phone Number 1-800-255-3924
Emergency telephone ChemTel 1-800-255-3924

2. Hazards Identification

Classification
This chemical is regulated by FIFRA.

<table>
<thead>
<tr>
<th>Hazard</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - Inhalation (Gases)</td>
<td>Category 4</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>Category 1</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Category 1B</td>
</tr>
<tr>
<td>FLAMMABLE AEROSOLS</td>
<td>Category 2</td>
</tr>
<tr>
<td>Gases Under Pressure</td>
<td>liquefied gas</td>
</tr>
</tbody>
</table>

Label Elements

DANGER

hazard statements
HARMFUL IF INHALED
May cause an allergic skin reaction
May cause cancer
Flammable Aerosol
Contains gas under pressure; may explode if heated
Precautionary Statements - Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Avoid breathing fumes, mist, vapors or spray.
Use only outdoors or in a well-ventilated area
Contaminated work clothing should not be allowed out of the workplace
Wear protective gloves, protective clothing, eye protection and face protection.
Keep away from heat, sparks, open flames and hot surfaces. — No smoking
Do not spray on an open flame or other ignition source
Pressurized container: Do not pierce or burn, even after use

Precautionary Statements - Response
IF exposed or concerned: Get medical advice/attention
Specific treatment: See additional cautionary statements on this label.
IF ON SKIN: Wash with plenty of soap and water
If skin irritation or rash occurs: Get medical advice/attention
Wash contaminated clothing before reuse
Call a POISON CENTER or doctor if you feel unwell

Precautionary Statements - Storage
Store locked up
Protect from sunlight. Store in a well-ventilated place
Do not expose to temperatures exceeding 122 °F (50 °C)

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)
Other Information
- Very toxic to aquatic life with long lasting effects
- Very toxic to aquatic life
No information available

### 3. Composition/information on Ingredients

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No</th>
<th>weight-%</th>
<th>Trade secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum distillates, hydrotreated light</td>
<td>64742-47-8</td>
<td>5-10</td>
<td>*</td>
</tr>
<tr>
<td>Propane</td>
<td>74-98-6</td>
<td>5-10</td>
<td>*</td>
</tr>
<tr>
<td>n-butane</td>
<td>106-97-8</td>
<td>5-10</td>
<td>*</td>
</tr>
<tr>
<td>Tetramethrin</td>
<td>7696-12-0</td>
<td>.15</td>
<td>*</td>
</tr>
<tr>
<td>Permethrin</td>
<td>52645-53-1</td>
<td>0.15</td>
<td>*</td>
</tr>
</tbody>
</table>

Common Name: Insecticide spray.
Synonyms: Flying insect killer.
Chemical Family: Pesticide.
Formula: 7-8110
Chemical nature: Oil-water emulsion.
4. First aid measures

**FIRST AID MEASURES**

**Eye Contact**
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.

**Skin contact**
Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advise.

**Inhalation**
If overcome by vapor, move person to fresh air. If person is not breathing, call 911 or an ambulance, then provide artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advise.

**Ingestion**
Ingestion from an aerosol product is unlikely to occur. In case of accidental ingestion, do not induce vomiting unless directed by a physician. Seek medical attention immediately.

**Most important symptoms and effects, both acute and delayed**

**Symptoms**
Prolonged contact with skin may cause allergic reactions on some individuals. Harmful if inhaled.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians**
Contains petroleum distillates, do not induce vomiting because of aspiration pneumonia hazard.

5. Fire-fighting measures

**Suitable extinguishing media**
CO2 (Carbon Dioxide), dry chemical, or water fog.

**Unsuitable extinguishing media**
Caution: Use of water spray when fighting fire may be inefficient.

**Specific hazards arising from the chemical**
This product is under pressure. Water spray may be used to cool cans in the vicinity of fire or excessive heat to prevent the explosion of the cans.

**Hazardous combustion products**
Thermal decomposition may yield gases like nitrogen oxides, carbon monoxide and carbon dioxide. May emit toxic gases and irritating fumes under fire conditions.

**Explosion data**

- **Sensitivity to Mechanical Impact**
  Contents under pressure, keep away from heat and open flame.

- **Sensitivity to Static Discharge**
  Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity).

**Protective equipment and precautions for firefighters**
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions**
Use with adequate general or local exhaust ventilation.

**For emergency responders**
Remove all sources of ignition.
Environmental precautions

This pesticide is extremely toxic to aquatic organisms, including fish and invertebrates. See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Provide adequate ventilation. Avoid sources of ignition. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

Clean contaminated surface thoroughly.

Clean contaminated objects and areas thoroughly observing environmental regulations.

Precautions for safe handling

Avoid contact with skin. Avoid getting spray into eyes. Do not deliberately inhale vapor or mist. Do not contaminate food or food handling surfaces. Keep out of reach of children.

Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). AEROSOL STORAGE LEVEL I (NFPA-30B).

Avoid heat, open flame and contact with strong acids, strong bases and strong oxidizers.

Control parameters

Use with adequate general or local exhaust ventilation.

Individual protection measures, such as personal protective equipment

Conventional eyeglasses to guard against splashing.

Rubber, vinyl or household type gloves required.

None required if used in a well-ventilated area. Follow label directions and precautions for the correct use of the product.

Wash hands thoroughly after handling.

Appropriate engineering controls

Use with adequate general or local exhaust ventilation.

Exposure guidelines

See occupational exposure limits listed below.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propane 74-98-6</td>
<td>TWA: 1000 ppm</td>
<td>TWA: 1000 ppm 1800 mg/m³</td>
<td>IDLH: 2100 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(vacated) TWA: 1000 ppm</td>
<td>TWA: 1000 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(vacated) TWA: 1800 mg/m³</td>
<td>TWA: 1800 mg/m³</td>
</tr>
<tr>
<td>n-butane 106-97-8</td>
<td>STEL: 1000 ppm</td>
<td>(vacated) TWA: 800 ppm 1900 mg/m³</td>
<td>TWA: 800 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(vacated) TWA: 1900 mg/m³</td>
<td>TWA: 1900 mg/m³</td>
</tr>
</tbody>
</table>

9. Physical and Chemical Properties

Information on basic physical and chemical properties
### Physical State

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aerosol</td>
<td>White, creamy emulsion.</td>
<td>Characteristic odor of insecticide and petroleum distillate.</td>
</tr>
<tr>
<td>Color</td>
<td>White</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

### Property Values

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td>Water 212 °F/100 °C</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not Available. This is an aerosol product for which Flame Projection is 0 inches. Temperatures above 120 °F may cause cans to burst.</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Faster than butyl acetate.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td></td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td></td>
</tr>
<tr>
<td>Upper flammability limits</td>
<td></td>
</tr>
<tr>
<td>Lower Flammability Limit</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td></td>
</tr>
<tr>
<td>Vapor Density</td>
<td></td>
</tr>
<tr>
<td>Relative Density</td>
<td>0.970 concentrate</td>
</tr>
<tr>
<td>Water solubility</td>
<td></td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td></td>
</tr>
<tr>
<td>Partition coefficient</td>
<td></td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td></td>
</tr>
<tr>
<td>Kinematic viscosity</td>
<td></td>
</tr>
<tr>
<td>Dynamic viscosity</td>
<td></td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No information available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No information available</td>
</tr>
<tr>
<td>Softening point</td>
<td>No information available</td>
</tr>
<tr>
<td>Molecular weight</td>
<td>No information available</td>
</tr>
<tr>
<td>VOC content (%)</td>
<td>14.5</td>
</tr>
<tr>
<td>Density</td>
<td>8.08 lb/gal</td>
</tr>
<tr>
<td>Bulk Density</td>
<td>No information available</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td></td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td></td>
</tr>
<tr>
<td>Kinematic viscosity</td>
<td></td>
</tr>
<tr>
<td>Dynamic viscosity</td>
<td></td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No information available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No information available</td>
</tr>
</tbody>
</table>

### Reactivity

Reactivity

Not applicable

Chemical stability

Stable.

Possibility of hazardous reactions

Temperatures above 130 °F may cause cans to burst with force.

Hazardous polymerization

Hazardous polymerization does not occur.

Conditions to Avoid

Temperatures above 122 °F (50 °C).

Incompatible Materials

Avoid heat, open flame and contact with strong acids, strong bases and strong oxidizers.

Hazardous decomposition products

Thermal decomposition may yield gases like nitrogen oxides, carbon monoxide and carbon dioxide. May emit toxic fumes under fire conditions.

### 11. Toxicological Information
Information on likely routes of exposure

Product Information

Results below are for a very similar product with same concentration of active ingredients.

**Inhalation**
Acute Inhalation IV (LC50>4.31 mg/L).

**Eye Contact**
Primary Eye IV.

**Skin contact**
Acute Dermal IV (LD >5,000 mg/kg).

**Ingestion**
Acute Oral IV (LD50 >5,000 mg/kg).

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Oral LD50</th>
<th>dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum distillates, hydrotreated light 64742-47-8</td>
<td>&gt; 5000 mg/kg (Rat)</td>
<td>&gt; 2000 mg/kg (Rabbit)</td>
<td>&gt; 5.2 mg/L (Rat) 4 h</td>
</tr>
<tr>
<td>Propane 74-98-6</td>
<td>-</td>
<td>-</td>
<td>= 658 mg/L (Rat) 4 h</td>
</tr>
<tr>
<td>n-butane 106-97-8</td>
<td>-</td>
<td>-</td>
<td>= 658 g/m³ (Rat) 4 h</td>
</tr>
<tr>
<td>Tetramethrin 7696-12-0</td>
<td>4640 mg/kg (Rat)</td>
<td>&gt; 2500 mg/kg (Rat)</td>
<td>&gt; 2500 mg/m³ (Rat) 3 h</td>
</tr>
<tr>
<td>Permethrin 52645-53-1</td>
<td>383 mg/kg (Rat) = 220 mg/kg (Rat)</td>
<td>&gt; 2 g/kg (Rabbit) = 1750 mg/kg (Rat) &gt; 5000 mg/kg (Rat)</td>
<td>&gt; 0.69 mg/L (Rat) 4 h</td>
</tr>
</tbody>
</table>

Information on toxicological effects

**Symptoms**
Deliberate inhalation of concentrated vapor or mist may cause headache, dizziness and nausea.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation**
Prolonged and repeated contact with skin may cause allergic reactions in some individuals.

**Serious eye damage/eye irritation**
Can cause irritation after contact with the eyes.

**Corrosivity**
Not applicable.

**Sensitization**
No skin sensitizer.

**Germ cell mutagenicity**
No information available.

**Carcinogenicity**
The table below indicates whether each agency has listed any ingredient as a carcinogen.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tetramethrin 7696-12-0</td>
<td>Group 2A</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Permethrin 52645-53-1</td>
<td>Group 2A</td>
<td>Group 3</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

**Reproductive toxicity**
No information available.

**STOT - single exposure**
No information available.

**STOT - repeated exposure**
No information available.

**Aspiration Hazard**
Not applicable.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (oral) 52632 mg/kg
ATEmix (dermal) 21053 mg/kg
ATEmix (inhalation-gas) 7344 mg/l
ATEmix (inhalation-dust/mist) 54.7 mg/l
ATEmix (inhalation-vapor) 54 mg/l

12. Ecological Information

This product does not contain marine pollutants.

ecotoxicity
This pesticide is extremely toxic to aquatic organisms including fish and aquatic invertebrates. Do not apply directly to or near water. This pesticide is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area.

16.13% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Toxicity to Microorganisms</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum distillates, hydrotreated light</td>
<td></td>
<td></td>
<td></td>
<td>4720: 96 h Den-dronereides heteropoda mg/L LC50</td>
</tr>
<tr>
<td>64742-47-8</td>
<td></td>
<td>45: 96 h Pimephales promelas mg/L LC50 flow-through 2.4: 96 h</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Oncorhynchus mykias mg/L LC50 static 2.2: 96 h</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Lepomis macrochirus mg/L LC50 static</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Permethrin 52645-53-1</td>
<td></td>
<td>0.008 - 0.03: 96 h Pimephales promelas mg/L LC50 flow-through 0.001 - 0.009: 96 h Pimephales promelas mg/L LC50 static 0.015: 96 h Cyprinus carpio mg/L LC50 flow-through 0.0052 - 0.0077: 96 h Cyprinus carpio mg/L LC50 0.00079: 96 h Lepomis macrochirus mg/L LC50 flow-through 0.0108: 96 h Lepomis macrochirus mg/L LC50 0.00188 - 0.00336: 96 h Lepomis macrochirus mg/L LC50 static 0.00049 - 0.00097: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.0048: 96 h Oncorhynchus mykiss mg/L LC50 static</td>
<td>4720: 96 h Den-dronereides heteropoda mg/L LC50</td>
<td></td>
</tr>
</tbody>
</table>

**Persistence and degradability**
No information available.

**Bioaccumulation**
No information available.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Partition coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propane 74-98-6</td>
<td>2.3</td>
</tr>
<tr>
<td>n-butane 106-97-8</td>
<td>2.89</td>
</tr>
<tr>
<td>Permethrin 52645-53-1</td>
<td>6.5</td>
</tr>
</tbody>
</table>

**Other adverse effects**
No information available.

**13. Disposal Considerations**

**Waste treatment methods**

**Disposal of wastes**
Dispose of in accordance with federal, state and local regulations.

**Contaminated packaging**
Pressurized container: Do not pierce or burn, even after use. Do not puncture or incinerate container. If empty: Place in trash or offer for recycling if available. If partly filled: Call your local solid waste agency for disposal instructions.
Chemical name | California Hazardous Waste Status
--- | ---
Tetramethrin 7696-12-0 | Toxic
Permethrin 52645-53-1 | Toxic

14. Transport Information

DOT
- UN/ID no: Limited Quantity
- Proper Shipping Name: Consumer Commodity
- Hazard Class: ORM-D
- Marine pollutant: This product does not contain marine pollutants.

15. Regulatory information

International Inventories
- TSCA: All ingredients of this product are listed or are excluded from listing under the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.
- DSL: All ingredients are listed or are excluded from listing on the DSL.

Legend:
- TSCA: United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL: Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313
This product contains the following toxic chemicals (above the de minimis level) subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and 40 CFR 372. This information must be included in all SDSs that are copied and distributed for this material.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No</th>
<th>weight-%</th>
<th>SARA 313 - Threshold Values %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tetramethrin - 7696-12-0</td>
<td>7696-12-0</td>
<td>.15</td>
<td>1.0</td>
</tr>
<tr>
<td>Permethrin - 52645-53-1</td>
<td>52645-53-1</td>
<td>0.15</td>
<td>1.0</td>
</tr>
</tbody>
</table>

SARA 311/312 Hazard Categories
- Acute Health Hazard: yes
- Chronic Health Hazard: yes
- Fire Hazard: No
- Sudden release of pressure hazard: No
- Reactive Hazard: No

CWA (Clean Water Act)
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations
California Proposition 65
This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propane 74-98-6</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>n-butane 106-97-8</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Tetramethrin 7696-12-0</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Permethrin 52645-53-1</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

U.S. EPA Label information
EPA Pesticide registration number 498-183
EPA Statement
This chemical is a pesticide product registered by the 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, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label: CAUTION: Harmful if absorbed through skin or inhaled.

16. Other information

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Instability</th>
<th>Physical and chemical properties</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Physical hazards</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>B - Eyes and hands</td>
</tr>
</tbody>
</table>

Prepared by Regulatory Department
Issue date 11-Jan-2016
Revision note Not applicable
Disclaimer
The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet