Safety Data Sheet

Section 1: Identification

Product identifier

Product Name • Precor Plus Fogger
Synonyms • 100521159; 37500E; EPA Reg. No.: 2724-454; Zoecon 9026 Fogger
Product Description • Aerosol fogger.

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

Recommended use • Kills adult fleas, hatching flea eggs, and ticks
Restrictions on use • KEEP OUT OF THE REACH OF CHILDREN. Keep away from heat, sparks and flames. Do not take internally.

Details of the supplier of the safety data sheet

Manufacturer • Wellmark International
1501 E. Woodfield Road 200W
Schaumburg, IL 60173
United States

Emergency telephone number

Manufacturer • 1-800-248-7763
Manufacturer (Transportation) • 1-800-424-9300 - CHEMTREC
Manufacturer (Transportation) • 1-703-527-3887 - CHEMTREC Outside US Collect Calls accepted

Section 2: Hazard Identification

United States (US)
According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012 • Aspiration 1
Eye Irritation 2A
Flammable Aerosols 2
Skin Irritation 2
Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
Compressed Gas

Label elements

OSHA HCS 2012

DANGER
Hazard statements
- Flammable aerosol
- May be fatal if swallowed and enters airways
- Causes skin irritation
- Causes serious eye irritation
- May cause drowsiness or dizziness
- Contains gas under pressure; may explode if heated

Precautionary statements

Prevention
- Avoid breathing dust, fume, gas, mist, vapours and/or spray.
- Keep away from heat, sparks, open flames and/or hot surfaces.
- No smoking.
- Pressurized container: Do not pierce or burn, even after use.
- Wash thoroughly after handling.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Use only outdoors or in a well-ventilated area.
- Do not spray on an open flame or other ignition source.

Response
- IF ON SKIN: Wash with plenty of soap and water.
- If skin irritation occurs: Get medical advice/attention.
- Take off contaminated clothing and wash before reuse.
- 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.
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- Do NOT induce vomiting.
- IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
- Call a POISON CENTER or doctor/physician if you feel unwell.

Storage/Disposal
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
- Store locked up.
- Protect from sunlight. Do not expose to temperatures exceeding 50ºC/122ºF.
- Store in a well-ventilated place. Keep container tightly closed.
- Protect from sunlight.

Other hazards

OSHA HCS 2012

Section 3 - Composition/Information on Ingredients

Substances

- Material does not meet the criteria of a substance.

Mixtures

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Identifiers</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>(s)-Methoprene</td>
<td>CAS: 65733-16-6</td>
<td>0.09%</td>
</tr>
<tr>
<td>Permethrin</td>
<td>CAS: 52645-53-1</td>
<td>0.58%</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
<td>CAS: 64742-47-8</td>
<td>10%</td>
</tr>
<tr>
<td>Butane</td>
<td>CAS: 106-97-8</td>
<td>17.29%</td>
</tr>
</tbody>
</table>
Section 4: First-Aid Measures

Description of first aid measures

Inhalation

• IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or doctor if you feel unwell.

Skin

• IF ON SKIN: Wash skin with soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

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: Immediately call a poison control center or doctor. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed

• Aspiration hazard, may cause dizziness or drowsiness if vapor is inhaled, causes skin irritation, causes serious eye irritation. Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

• Contains petroleum distillate vomiting may cause aspiration pneumonia. Treat symptomatically and supportively.

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media

• Use water, foam, carbon dioxide, or dry chemical.

Unsuitable Extinguishing Media

• Avoid heavy hose streams.

Firefighting Procedures

• Do not allow fire fighting water to escape into waterways or sewers. Flammable aerosols exposed to high temperatures may rupture, rocket and cause secondary hazards. Move containers from fire area if you can do it without risk. 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

• Containers may explode when heated. Flammable aerosols exposed to high temperatures may rupture, rocket and cause secondary hazards. Flammable; may be ignited by heat, sparks or flames. At temperatures above 130°F, container may rupture.

Hazardous Combustion

• Carbon monoxide and carbon dioxide.
Products
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
  • Approach leaking or punctured pressurized containers cautiously. Isolate leaking container from all sources of ignition. Ventilate the area before entry. Avoid breathing fumes.

Emergency Procedures
  • ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ventilate closed spaces before entering. Avoid unnecessary personnel and equipment traffic in the spill area.

Environmental precautions
  • Avoid run off to waterways and sewers.

Methods and material for containment and cleaning up

Containment/Clean-up Measures
  • SMALL SPILLS: Take up with sand or other non-combustible absorbent material and place into containers for later disposal. Do not flush to sewer or allow to enter waterways.

Section 7 - Handling and Storage

Precautions for safe handling

Handling
  • Keep away from fire - No Smoking. Contents under pressure, do not crush, puncture or incinerate. Exposure to temperatures above 130°F may cause bursting. Avoid contact with skin, eyes, and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

Conditions for safe storage, including any incompatibilities

Storage
  • Keep away from fire, sparks and heated surfaces. Store in cool, dry area, inaccessible to children. Store locked up. Keep container tightly closed and do not store above 130°F(55°C). Ventilate enclosed areas. NFPA Aerosol Classification: Level 1.

Incompatible Materials or Ignition Sources
  • Oxidizing agents. Heat, sparks, open flame.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines
  • No data available.

<table>
<thead>
<tr>
<th></th>
<th>Result</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA</th>
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</thead>
<tbody>
<tr>
<td>Butane</td>
<td></td>
<td>(106-97-8)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>STELs</td>
<td>1000 ppm STEL</td>
<td>Not established</td>
<td></td>
<td>Not established</td>
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<tr>
<td>TWAs</td>
<td>Not established</td>
<td>800 ppm TWA; 1900 mg/m3 TWA</td>
<td>Not established</td>
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</tr>
</tbody>
</table>
Propane (74-98-6) | TWAs | See Appendix F: Minimal Oxygen Content | 1000 ppm TWA; 1800 mg/m3 TWA | 1000 ppm TWA; 1800 mg/m3 TWA

Exposure Limits Supplemental
ACGIH
• Butane (106-97-8): TLV Basis - Critical Effects: (CNS impairment)
• Propane (74-98-6): TLV Basis - Critical Effects: (asphyxia (See Appendix F: Minimal Oxygen Content))

Exposure controls
Engineering Measures/Controls
Personal Protective Equipment
Pictograms

Respiratory
Follow the OSHA respirator regulations found in 29 CFR 1910.134. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face
• Wear safety goggles.

Hands
• Impervious gloves.

Skin/Body
If prolonged exposure is anticipated, it is recommended for handlers to wear appropriate clothing to prevent skin contact.

Environmental Exposure Controls
• Refer to Section 13 - Disposal Considerations.

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Material Description</th>
<th>Physical Form</th>
<th>Appearance/Description</th>
<th>General Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Form</td>
<td>Aerosol</td>
<td>Fine white mist aerosol.</td>
<td>Boiling Point</td>
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<td>Color</td>
<td>White</td>
<td>Odor</td>
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<tr>
<td>Aerosol Type</td>
<td>Spray</td>
<td>Odor Threshold</td>
<td>Decomposition Temperature</td>
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<td>Explosive Properties</td>
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<td></td>
<td></td>
<td></td>
<td>Volatility</td>
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<td></td>
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<td>Vapor Pressure</td>
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<td>Evaporation Rate</td>
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<td>No data available</td>
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<td></td>
<td>Flammability</td>
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<td></td>
<td>Flash Point</td>
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<td></td>
<td></td>
<td></td>
<td>LEL</td>
</tr>
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<td></td>
<td>No data available</td>
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<td></td>
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<td></td>
<td>Heat of Combustion (ΔHc)</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>17.4 kJ/g</td>
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<td></td>
<td></td>
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<td>Flammability (solid, gas)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Flammable aerosol.</td>
</tr>
</tbody>
</table>

Environmental

Octanol/Water Partition coefficient: No data available

Section 10: Stability and Reactivity

Reactivity
- Non-reactive

Chemical stability
- Stable

Possibility of hazardous reactions
- Flammable, aerosols exposed to high temperatures may rupture, rocket and cause secondary hazards.

Conditions to avoid

Incompatible materials
- Store away from oxidizers.

Hazardous decomposition products
- None. However, as with any organic material, combustion will produce carbon dioxide and possibly carbon monoxide.

Section 11 - Toxicological Information

Information on toxicological effects

<table>
<thead>
<tr>
<th>Components</th>
<th>Acute Toxicity: Ingestion/Oral-Rat LD50 • 500 mg/kg; Inhalation-Rat LC50 • 2.65 mg/L 4 Hour(s); Skin-Rabbit LD50 • &gt;2000 mg/kg;</th>
<th>Irritation: Eye-Rabbit • Mild irritation; Skin-Rabbit • Essentially non-irritating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permethrin (0.58%)</td>
<td>52645-53-1</td>
<td></td>
</tr>
<tr>
<td>(s)-Methoprene (0.09%)</td>
<td>65733-16-6</td>
<td></td>
</tr>
</tbody>
</table>

GHS Properties

<table>
<thead>
<tr>
<th></th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>OSHA HCS 2012 • Acute Toxicity - Dermal - Classification criteria not met; Acute Toxicity - Inhalation - Classification criteria not met; Acute Toxicity - Oral - Classification criteria not met</td>
</tr>
<tr>
<td>Skin corrosion/Irritation</td>
<td>OSHA HCS 2012 • Skin Irritation 2</td>
</tr>
<tr>
<td>Serious eye damage/Irritation</td>
<td>OSHA HCS 2012 • Eye Irritation 2A</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Aspiration Hazard</td>
<td>OSHA HCS 2012 • Aspiration 1</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Germ Cell Mutagenicity</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Toxicity for Reproduction</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
</tbody>
</table>
STOT-SE
• Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects

STOT-RE
• Classification criteria not met

Route(s) of entry/exposure
• Inhalation, Skin, Eye, Ingestion.

Potential Health Effects

Inhalation

Acute (Immediate)
• May affect the central nervous system. Symptoms may include dizziness or drowsiness.

Chronic (Delayed)
• No data available.

Skin

Acute (Immediate)
• Causes skin irritation.

Chronic (Delayed)
• No data available.

Eye

Acute (Immediate)
• Causes eye irritation.

Chronic (Delayed)
• No data available.

Ingestion

Acute (Immediate)
• Aspiration Hazard - may be fatal if swallowed and enters airways.

Chronic (Delayed)
• No data available.

Other

Chronic (Delayed)
• None known.

Mutagenic Effects
• Methoprene has been tested and found negative for mutagenic potential. Permethrin was not mutagenic in a battery of in vitro and in vivo tests.

Carcinogenic Effects
• Methoprene is not classified as carcinogen by NTP, IARC and OSHA. Permethrin is not classified as carcinogen by NTP, IARC and OSHA. No other components present at 0.1% or greater are listed by IARC, OSHA or NTP.

Reproductive Effects
• Methoprene is not a teratogenic compound. The NOEL for maternal and embryotoxicity in rabbits was 200 mg/kg/day. The NOEL for reproductive effects in rats was 500 ppm. Permethrin does not cause developmental or reproductive effects.

Section 12 - Ecological Information

<table>
<thead>
<tr>
<th>Components</th>
<th>Aquatic Toxicity-Fish: 96 Hour(s) LC50 Blue gill 0.00079 mg/L [Acute]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permethrin (0.58%)</td>
<td>52645-53-1</td>
</tr>
<tr>
<td>(s)-Methoprene (0.09%)</td>
<td>65733-16-6</td>
</tr>
<tr>
<td>Aquatic Toxicity-Crustacea: NOEC Daphnia magna 0.000039 mg/L [Chronic]</td>
<td></td>
</tr>
<tr>
<td>NOEC Mysid shrimp 0.000011 mg/L [Chronic]</td>
<td></td>
</tr>
<tr>
<td>LC50 Hexagenia bilineata 0.0001 mg/L [Acute]</td>
<td></td>
</tr>
<tr>
<td>96 Hour(s) LC50 Mysid shrimp 0.000019 mg/L [Acute]</td>
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</tr>
</tbody>
</table>
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

- Do not puncture or incinerate. If partly filled: Call your local solid waste agency for disposal instructions. Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

- If empty: Place in trash or offer for recycling if available. Do not puncture or incinerate. Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

<table>
<thead>
<tr>
<th>UN number</th>
<th>UN proper shipping name</th>
<th>Transport hazard class(es)</th>
<th>Packing group</th>
<th>Environmental hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT UN1950</td>
<td>Aerosols</td>
<td>2.1</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>IMO/IMDG UN1950</td>
<td>Aerosols</td>
<td>2.1</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>IATA/ICAO UN1950</td>
<td>Aerosols, flammable</td>
<td>2.1</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

Special precautions for user

- None specified.

- No data available

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Other information

- No data available.

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, SARA Title III Section 313

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**

**Hazard Statements**
- Keep out of reach of children.

**Precautionary Statements**
- Personal Protective Equipment (PPE): Applicators and other handlers must wear: Long sleeve shirt and long pants, shoes plus socks, and chemical-resistant gloves (barrier laminate or butyl rubber ≥ 14 mls). Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have become drenched or heavily contaminated with this product. Do not reuse them.

**Hazards to Humans and Domestic Animals**

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS - CAUTION: USE ONLY WHEN AREA TO BE TREATED IS VACATED BY HUMANS AND PETS. Harmful if absorbed through the skin. Avoid contact with skin, eyes, or clothing. Breathing spray mist may be harmful. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse. If pet is exposed to wet surface, wash fur with soap and water. Personal Protective Equipment (PPE): Applicators and other handlers must wear: Long sleeve shirt and long pants, shoes plus socks, and chemical-resistant gloves (barrier laminate or butyl rubber ≥ 14 mls). Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have become drenched or heavily contaminated with this product. Do not reuse them.

**USER SAFETY RECOMMENDATIONS**
- User should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. User should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. User should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**First Aid**
- If on skin or clothing: Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. If swallowed: Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person. Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-248-7763 for emergency medical treatment information. Contact veterinarian if pets are exposed during application. Note to Physician/Veterinarian: Contains petroleum distillate. Vomiting may cause aspiration pneumonia.

**Physical or Chemical Hazards**
- Extremely Flammable. Contents under pressure. Keep away from fire, sparks, and heated surfaces. Do not puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting. THIS PRODUCT CONTAINS A HIGHLY FLAMMABLE INGREDIENT. IT MAY CAUSE A FIRE OR EXPLOSION IF NOT USED
PROPERLY. FOLLOW THE "DIRECTIONS FOR USE" ON THIS LABEL VERY CAREFULLY.

### Inventory

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>(s)-Methoprene</td>
<td>65733-16-6</td>
<td>No</td>
</tr>
<tr>
<td>Butane</td>
<td>106-97-8</td>
<td>Yes</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
<td>64742-47-8</td>
<td>Yes</td>
</tr>
<tr>
<td>Permethrin</td>
<td>52645-53-1</td>
<td>No</td>
</tr>
<tr>
<td>Propane</td>
<td>74-98-6</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### United States

#### Environment

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

- Propane: 74-98-6 (Not Listed)
- Butane: 106-97-8 (Not Listed)
- (s)-Methoprene: 65733-16-6 (Not Listed)
- Distillates (petroleum), hydrotreated light: 64742-47-8 (Not Listed)
- Permethrin: 52645-53-1 (1.0 % de minimis concentration)

### Section 16 - Other Information

- **Revision Date**: 29/March/2016
- **Last Revision Date**: 29/March/2016
- **Preparation Date**: 29/March/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.