



## 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 50°C/122°F.
  - Store in a well-ventilated place. Keep container tightly closed.
  - Protect from sunlight.

### 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	%
(s)-Methoprene	CAS:65733-16-6	0.09%
Permethrin	CAS:52645-53-1	0.58%
Distillates (petroleum), hydrotreated light	CAS:64742-47-8	10%
Butane	CAS:106-97-8	17.29%

Propane	CAS:74-98-6	17.71%
Other ingredients	NDA	Balance

## 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.

Exposure Limits/Guidelines				
	Result	ACGIH	NIOSH	OSHA
Butane (106-97-8)	STELs	1000 ppm STEL	Not established	Not established
	TWAs	Not established	800 ppm TWA; 1900 mg/m3 TWA	Not established

Propane (74-98-6)	TWAs	See Appendix F: Minimal Oxygen Content	1000 ppm TWA; 1800 mg/m <sup>3</sup> TWA	1000 ppm TWA; 1800 mg/m <sup>3</sup> TWA
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## 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

- No data available.

### Personal Protective Equipment

#### Pictograms

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#### 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

Material Description			
Physical Form	Aerosol	Appearance/Description	Fine white mist aerosol.
Color	White	Odor	No data available.
Aerosol Type	Spray	Odor Threshold	No data available
General Properties			
Boiling Point	No data available	Melting Point/Freezing Point	No data available
Decomposition Temperature	No data available	pH	No data available
Specific Gravity/Relative Density	No data available	Bulk Density	No data available
Water Solubility	No data available	Viscosity	No data available
Explosive Properties	No data available		
Volatility			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available		
Flammability			
Flash Point	No data available	UEL	No data available
LEL	No data available	Autoignition	No data available
Heat of Combustion ( $\Delta H_c$ )	17.4 kJ/g	Flame Extension	0 in
Flammability (solid, gas)	Flammable aerosol.		
Environmental			

Octanol/Water Partition coefficient	No data available		
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## 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

- Keep away from fire. Heat, sparks, open flame. Excessive heat. Strong oxidizers.

### 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

Components		
Permethrin (0.58%)	52645-53-1	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 500 mg/kg; Inhalation-Rat LC50 • 2.65 mg/L 4 Hour(s); Skin-Rabbit LD50 • >2000 mg/kg; <b>Irritation:</b> Eye-Rabbit • Mild irritation; Skin-Rabbit • Essentially non-irritating
(s)-Methoprene (0.09%)	65733-16-6	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • >34000 mg/kg; Inhalation-Rat LC50 • 5.19 mg/L; Skin-Rabbit LD50 • >5000 mg/kg; <b>Irritation:</b> Eye-Rabbit • Essentially non-irritating; Skin-Rabbit • Essentially non-irritating

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 Irritation 2
Serious eye damage/Irritation	OSHA HCS 2012 • Eye Irritation 2A
Skin sensitization	OSHA HCS 2012 • Classification criteria not met
Respiratory sensitization	OSHA HCS 2012 • Classification criteria not met
Aspiration Hazard	OSHA HCS 2012 • Aspiration 1
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 • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
STOT-RE	OSHA HCS 2012 • Classification criteria not met

<b>Route(s) of entry/exposure</b>	• Inhalation, Skin, Eye, Ingestion.
<b>Potential Health Effects</b>	
<b>Inhalation</b>	
<b>Acute (Immediate)</b>	• May affect the central nervous system. Symptoms may include dizziness or drowsiness.
<b>Chronic (Delayed)</b>	• No data available.
<b>Skin</b>	
<b>Acute (Immediate)</b>	• Causes skin irritation.
<b>Chronic (Delayed)</b>	• No data available.
<b>Eye</b>	
<b>Acute (Immediate)</b>	• Causes eye irritation.
<b>Chronic (Delayed)</b>	• No data available.
<b>Ingestion</b>	
<b>Acute (Immediate)</b>	• Aspiration Hazard - may be fatal if swallowed and enters airways.
<b>Chronic (Delayed)</b>	• No data available.
<b>Other</b>	
<b>Chronic (Delayed)</b>	• None known.
<b>Mutagenic Effects</b>	• Methoprene has been tested and found negative for mutagenicity potential. Permethrin was not mutagenic in a battery of in vitro and in vivo tests.
<b>Carcinogenic Effects</b>	• 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.
<b>Reproductive Effects</b>	• 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

### Toxicity

Components		
Permethrin (0.58%)	52645-53-1	<b>Aquatic Toxicity-Fish:</b> 96 Hour(s) LC50 <i>Blue gill</i> 0.00079 mg/L [Acute] 96 Hour(s) LC50 <i>Atlantic silverside</i> 0.0022 mg/L [Acute] NOEC <i>Fathead minnow</i> 0.0003 mg/L [Chronic] NOEC <i>Sheepshead minnow</i> 0.00083 mg/L [Chronic] <b>Aquatic Toxicity-Crustacea:</b> NOEC <i>Daphnia magna</i> 0.000039 mg/L [Chronic] NOEC <i>Mysid shrimp</i> 0.000011 mg/L [Chronic] LC50 <i>Hexagenia bilineata</i> 0.0001 mg/L [Acute] 96 Hour(s) LC50 <i>Mysid shrimp</i> 0.000019 mg/L [Acute]
(s)-Methoprene (0.09%)	65733-16-6	<b>Aquatic Toxicity-Fish:</b> 96 Hour(s) LC50 <i>Rainbow Trout</i> 0.76 mg/L [Acute] 96 Hour(s) LC50 <i>Blue Gill</i> >0.37 mg/L [Acute] NOEC <i>Fathead minnow</i> 0.048 mg/L [Chronic] <b>Aquatic Toxicity-Crustacea:</b> NOEC <i>Mysid shrimp</i> 0.014 mg/L [Chronic] 96 Hour(s) LC50 <i>Mysid shrimp</i> 0.11 mg/L [Acute]

48 Hour(s) LC50 *Daphnia magna* 0.36 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**

- 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**

	UN number	UN proper shipping name	Transport hazard class (es)	Packing group	Environmental hazards
DOT	UN1950	Aerosols	2.1	Not Applicable	Not Applicable
IMO/IMDG	UN1950	Aerosols	2.1	Not Applicable	Not Applicable
IATA/ICAO	UN1950	Aerosols, flammable	2.1	Not Applicable	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**

- 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  $\geq$  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  $\geq$  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		
Component	CAS	TSCA
(s)-Methoprene	65733-16-6	No
Butane	106-97-8	Yes
Distillates (petroleum), hydrotreated light	64742-47-8	Yes
Permethrin	52645-53-1	No
Propane	74-98-6	Yes

## 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.