



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, Suite 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 North America - 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
Carcinogenicity 2

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
 - Suspected of causing cancer.

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.
 - Obtain special instructions before use.
 - Do not handle until all safety precautions have been read and understood.
- 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.
 - IF exposed or concerned: Get medical advice/attention.
- 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.

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%
Propane-isobutane mixture	CAS:68476-86-8	35%

Distillates (petroleum), hydrotreated light	CAS:64742-47-8	10%
Mixed fatty acid diethanolamines	CAS:68603-42-9	0.9%
Other ingredients	NDA	53.43%

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

- Suspected of causing cancer, aspiration hazard, may cause dizziness or drowsiness if inhaled, causes skin irritation, causes eye irritation. 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**
- 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 Products**
- Carbon monoxide and carbon dioxide.

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.

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 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	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
Flame Extension	0 in	Heat of Combustion (ΔH_c)	17.4 kJ/g
Flammability (solid, gas)	Flammable aerosol.		
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

- 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 product carbon dioxide and possibly carbon monoxide.

Section 11 - Toxicological Information

Information on toxicological effects

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

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

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

- No data available.

Carcinogenic Effects

- Mixed fatty acid diethanolamine is listed as a suspected human carcinogen by IARC.

Reproductive Effects

- No data available.

Section 12 - Ecological Information

Toxicity

Component	CAS	Data
		Crustacea: NOEC Crustacea <i>Mysid Shrimp</i> 0.014 mg/L [Chronic]; 48 Hour(s) LC50 Crustacea <i>Daphnia</i> 0.36

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

Persistence and degradability

- No data available.

Bioaccumulative potential

- No data available.

Mobility in Soil

- No data available.

Other adverse effects

- Material data lacking.

Ecological Fate

- 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	None	Consumer commodity	N/A	N/A	N/A
	UN1950	Aerosols	N/A	N/A	N/A
IMO/IMDG	UN1950	Aerosols	N/A	N/A	Marine Pollutant
IATA/ICAO	UN1950	Aerosols, flammable	N/A	N/A	Acute Aquatic Toxicity

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

Key to abbreviations

= N/A = Not applicable.

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
Mixed fatty acid diethanolamines	68603-42-9	Yes
Distillates (petroleum), hydrotreated light	64742-47-8	Yes
Permethrin	52645-53-1	No
Propane-isobutane mixture	68476-86-8	Yes

United States

Environment

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

• Mixed fatty acid diethanolamines	68603-42-9	Not Listed
• Propane-isobutane mixture	68476-86-8	Not Listed
• Distillates (petroleum), hydrotreated light	64742-47-8	Not Listed
• (s)-Methoprene	65733-16-6	Not Listed
• Permethrin	52645-53-1	1.0 % de minimis concentration

Section 16 - Other Information

Revision Summary	
Date	Changes
20/April/2015	Sec. 1: Corrected company name.

Last Revision Date

- 20/April/2015

Preparation Date

- 13/February/2015

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.