Section 1: Identification

Product identifier

Product Name • Precor 2000 Plus Premise Spray
Synonyms • 100517677; 3006018; 3006301; 3006302; EPA Reg. No.: 2724-490; RF9910 Aerosol
Product Description • Clear to white aerosol spray.

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

Recommended use • Insecticide.
Restrictions on use • Keep out of the reach of children. Avoid contact with skin, eyes and clothing. Keep away from heat, sparks and flame. Do not allow product to enter drain or any body of water.

Details of the supplier of the safety data sheet

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

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
Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
Flammable Aerosols 2
Skin Irritation 2
Skin Sensitization 1

Label elements

OSHA HCS 2012
DANGER
Hazard statements
• May cause drowsiness or dizziness
• May be fatal if swallowed and enters airways
• Flammable aerosol
• Causes skin irritation
• May cause an allergic skin reaction

Precautionary statements
Prevention
• Use only outdoors or in a well-ventilated area.
• Keep away from heat, sparks, open flames and/or hot surfaces.
• Do not spray on an open flame or other ignition source.
• No smoking.
• Pressurized container: Do not pierce or burn, even after use.
• Wash thoroughly after handling.
• Wear protective gloves.
• Contaminated work clothing should not be allowed out of the workplace.

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

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

Other hazards
OSHA HCS 2012

Section 3 - Composition/Information on Ingredients

Substances
• Material does not meet the criteria of a substance according to United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

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>0.085%</td>
</tr>
<tr>
<td>Permethrin</td>
<td>CAS:52645-53-1</td>
<td>0.35%</td>
</tr>
<tr>
<td>Piperonyl butoxide</td>
<td>CAS:51-03-6</td>
<td>1.75%</td>
</tr>
<tr>
<td>Phenothrin</td>
<td>CAS:26002-80-2</td>
<td>0.3%</td>
</tr>
<tr>
<td>N-Octyl Bicycloheptene Dicarboximide</td>
<td>CAS:113-48-4</td>
<td>1.75%</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
<td>CAS:64742-47-8</td>
<td>14%</td>
</tr>
<tr>
<td>Ethoxylated nonylphenol, branched</td>
<td>CAS:68412-54-4</td>
<td>1.8%</td>
</tr>
<tr>
<td>2-Pyrrolidinone, 1-octyl</td>
<td>CAS:2687-94-7</td>
<td>0.4%</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 with plenty of soap and water. If irritation or rash 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. Get medical attention if symptoms occur.

Ingestion
- IF SWALLOWED: Aspiration hazard - do NOT induce vomiting. Call a poison control center or doctor immediately for treatment advice.

Most important symptoms and effects, both acute and delayed
- Aspiration hazard, may cause dizziness or drowsiness if inhaled, causes skin irritation, may cause an allergic reaction in individuals with a sensitivity to piperonyl butoxide and/or n-octyl bicycloheptene dicarboximide. 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
- LARGE FIRE: Water spray, fog or regular foam.
- SMALL FIRES: Dry chemical, CO2, water spray or regular foam.

Unsuitable Extinguishing Media
- Avoid heavy hose streams.

Firefighting Procedures
- Flammable aerosols exposed to high temperatures may rupture, rocket and cause secondary hazards.
- As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions.

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards
- At temperatures above 130°F, container may rupture.
- Flammable aerosols exposed to high temperatures may rupture, rocket and cause secondary hazards.

Hazardous Combustion Products
- Thermal degradation may produce oxides of carbon, oxides of nitrogen and/or volatile hydrocarbon vapors.

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. Avoid breathing fumes. Ventilate enclosed areas.

Emergency Procedures
- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate
area). Avoid unnecessary personnel and equipment traffic in the spill area. Turn off electric power to area. Stay upwind. Ventilate closed spaces before entering. Do not allow runoff into water, storm drains or drainage ditches.

Environmental precautions

- Avoid runoff to waterways and sewers.

Methods and material for containment and cleaning up

Containment/Clean-up Measures

- Keep away from fire, sparks and heated surfaces.
- SMALL SPILLS: Take up with sand or other non-combustible absorbent material and place into containers for later disposal.

Section 7 - Handling and Storage

Precautions for safe handling

Handling

- Do not use or store near heat or open flame. Do not smoke while using this product. Contents under pressure, do not crush, puncture or incinerate. Avoid breathing fumes.

Conditions for safe storage, including any incompatibilities

Storage


Incompatible Materials or Ignition Sources

- Heat, sparks, open flame.

Section 8 - Exposure Controls/Personal Protection

Control parameters

<table>
<thead>
<tr>
<th>Result</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butane (106-97-8)</td>
<td>STELs 1000 ppm STEL</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>TWAs 800 ppm TW; 1900 mg/m3 TW</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>Propane (74-98-6)</td>
<td>TWAs 1000 ppm TWA (listed under Aliphatic hydrocarbon gases: Alkane C1-4)</td>
<td>1000 ppm TWA; 1800 mg/m3 TWA</td>
<td>1000 ppm TWA; 1800 mg/m3 TWA</td>
</tr>
</tbody>
</table>

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.

- Eye/Face
  - Wear safety glasses.

- Hands
  - Impervious gloves. Some materials that are chemical resistant to this product are Barrier Laminate, Nitrile Rubber, Neoprene Rubber or Viton.

- Skin/Body
  - It is recommended for handlers to wear appropriate clothing to prevent skin contact including long sleeves, long pants, socks and shoes.

Environmental Exposure Controls

- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways.
Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Material Description</th>
<th>Appearance/Description</th>
<th>White to clear aerosol spray.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Form</td>
<td>Aerosol</td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>White to clear.</td>
<td>Odor, No data available.</td>
</tr>
<tr>
<td>Aerosol Type</td>
<td>Spray</td>
<td>Odor Threshold, No data available</td>
</tr>
</tbody>
</table>

General Properties

| Boiling Point         | No data available      | Melting Point/Freezing Point, No data available |
| Decomposition Temperature | No data available    | Heat of Decomposition, No data available |
| pH                   | No data available      | Specific Gravity/Relative Density, No data available |
| Water Solubility     | No data available      | Viscosity, No data available |

Volatility

| Vapor Pressure       | No data available      | Vapor Density, No data available |
| Evaporation Rate     | No data available      | VOC (Wt.), No data available    |
| VOC (Vol.)           | No data available      |                                  |

Flammability

| Flash Point          | Not relevant           | UEL, No data available          |
| LEL                  | No data available      | Heat of Combustion (ΔHc), 6.98 kJ/g |
| Flame Extension      | 1 in                   | Flammability (solid, gas), Flammable aerosol. |

Environmental

| Octanol/Water Partition coefficient | No data available |

Section 10: Stability and Reactivity

Reactivity

- Non-reactive under normal handling and storage conditions.

Chemical stability

- Stable under normal temperatures and pressures.

Possibility of hazardous reactions

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

Conditions to avoid


Incompatible materials

- Heat, strong acids, strong bases and oxidizing agents.

Hazardous decomposition products

- Hazardous decomposition may occur when heated producing oxides of carbon and nitrogen, volatile hydrocarbon vapors.

Section 11 - Toxicological Information

Information on toxicological effects

| CAS |  |
Acute Toxicity: Ingestion/Oral-Rat LD50 • >5000 mg/kg 14 Day(s); Inhalation-Rat LC50 • >2.12 mg/L 4 Hour(s); Skin-Rabbit LD50 • >5050 mg/kg 24 Hour(s);
Irritation: Eye-Rabbit • Mild irritation; Skin-Rabbit • Moderate irritation

<table>
<thead>
<tr>
<th>GHS Properties</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>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>Skin corrosion/Irritation</td>
<td>OSHA HCS 2012 • Skin Irritation 2</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>OSHA HCS 2012 • Skin Sensitizer 1</td>
</tr>
<tr>
<td>STOT-RE</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>STOT-SE</td>
<td>OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects</td>
</tr>
<tr>
<td>Toxicity for Reproduction</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>Serious eye damage/Irritation</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
</tbody>
</table>

Potential Health Effects
Inhalation
- Acute (Immediate) • May cause drowsiness and dizziness.
- Chronic (Delayed) • No data available

Skin
- Acute (Immediate) • Causes skin irritation. May cause an allergic reaction in individuals with a sensitivity to piperonyl butoxide and/or n-octyl bicycloheptene dicarboximide.
- Chronic (Delayed) • No data available

Eye
- Acute (Immediate) • Under normal conditions of use, no health effects are expected.
- Chronic (Delayed) • No data available

Ingestion
- Acute (Immediate) • Aspiration Hazard - may be fatal if swallowed and enters airways.
- Chronic (Delayed) • No data available

Section 12 - Ecological Information

Toxicity

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>(s)-Methoprene (0.085%)</td>
<td>65733-16-6</td>
<td>Crustacea: NOEC Crustacea Mysis shrimp 0.014 mg/L [Chronic]; 96 Hour(s) LC50 Crustacea Mysis shrimp 0.11 mg/L [Acute]; 48 Hour(s) LC50 Crustacea Daphnia magna 0.36 mg/L [Acute]; Fish: 96 Hour(s) LC50 Fish Rainbow Trout 0.76 mg/L [Acute]; 96 Hour(s) LC50 Fish Blue Gill &gt;0.37 mg/L [Acute]; NOEC Fish Fathead minnow 0.048 mg/L [Chronic]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Crustacea: NOEC Crustacea Daphnia magna 0.000039 mg/L [Chronic]; NOEC Crustacea Mysis shrimp 0.000011 mg/L [Chronic]; LC50 Crustacea Hexagenia bilineata 0.0001 mg/L [Acute]; 96 Hour</td>
</tr>
<tr>
<td>Compound</td>
<td>LC50/Fish LC50/NOEC</td>
<td></td>
</tr>
<tr>
<td>--------------------------------</td>
<td>-----------------------------------</td>
<td></td>
</tr>
<tr>
<td>Permethrin (0.35%)</td>
<td>Mysid shrimp: 0.000019 mg/L [Acute]; NOEC Fish Fathead minnow 0.0003 mg/L [Chronic]; NOEC Fish Sheephead minnow 0.00083 mg/L [Chronic]</td>
<td></td>
</tr>
<tr>
<td>Piperonyl butoxide (1.75%)</td>
<td>Crustacea: LC50 Crustacea <em>Gamma</em> <em>urus fasciatus</em> (amphipod) 0.51 mg/L [Acute]; NOEC Crustacea <em>Daphnia magna</em> 0.03 mg/L [Chronic]; Fish: LC50 Fish Rainbow Trout 1.9 mg/L [Acute]; LC50 Fish Sheephead minnow 3.94 mg/L [Acute]; NOEC Fish Fathead minnow 0.04 mg/L [Chronic]</td>
<td></td>
</tr>
<tr>
<td>Phenothrin (0.3%)</td>
<td>Crustacea: NOEC Crustacea <em>Daphnia magna</em> 0.00047 mg/L [chronic]; 48 Hour(s) LC50 Crustacea <em>Daphnia magna</em> 0.0044 mg/L [acute]; 96 Hour(s) LC50 Crustacea <em>Mysid shrimp</em> 0.000025 mg/L [acute]; Fish: 96 Hour(s) LC50 Fish Rainbow trout 0.0027 mg/L [acute]; 96 Hour(s) LC50 Fish <em>Blue gill</em> 0.0158 mg/L [acute]; NOEC Fish Rainbow trout 0.0011 mg/L [chronic]</td>
<td></td>
</tr>
<tr>
<td>N-Octyl Bicycloheptene Dicarboximide (1.75%)</td>
<td>Crustacea: 48 Hour(s) LC50 Crustacea <em>Daphnia magna</em> 2.3 mg/L [Acute]; Fish: LC50 Fish 1.4-2.4 mg/L [Acute]</td>
<td></td>
</tr>
</tbody>
</table>

**Persistence and degradability**
- No data available

**Bioaccumulative potential**
- No data available

**Mobility in Soil**
- No data available

**Other adverse effects**
- No data available

**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. Do not allow entry into storm drains, drainage ditches, gutters or surface waters.

- **Packaging waste**
  - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. Do not puncture or incinerate.

### 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</td>
<td>Aerosols (contains Phenothrin)</td>
<td>2.1</td>
<td>Not Applicable</td>
<td>Marine Pollutant</td>
</tr>
<tr>
<td>IMO/IMDG</td>
<td>Aerosols (contains Phenothrin)</td>
<td>2.1</td>
<td>Not Applicable</td>
<td>Marine Pollutant</td>
</tr>
<tr>
<td>IATA/ICAO</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.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**
- No data available

**Other information**
- **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

Precautionary Statements
- KEEP OUT OF THE REACH OF CHILDREN.
- HAZARDS TO HUMANS AND DOMESTIC ANIMALS-CAUTION: Avoid contact with skin or clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

First Aid
- IF ON SKIN OR CLOTHING: Take off contaminated 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 for treatment advice. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give ANY liquid to the person. Do not give anything by mouth to an unconscious person.
- Note to Physician: Contains petroleum distillate - vomiting may cause aspiration pneumonia.

Physical or Chemical Hazards
- Contents under pressure. Do not use or store near open flame. Do not puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting.

<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>2-Pyrrolidinone, 1-octyl</td>
<td>2687-94-7</td>
<td>Yes</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>N-Octyl Bicycloheptene Dicarboximide</td>
<td>113-48-4</td>
<td>No</td>
</tr>
<tr>
<td>Permethrin</td>
<td>52645-53-1</td>
<td>No</td>
</tr>
<tr>
<td>Phenothrin</td>
<td>26002-80-2</td>
<td>No</td>
</tr>
<tr>
<td>Ethoxylated nonylphenol, branched</td>
<td>68412-54-4</td>
<td>Yes</td>
</tr>
<tr>
<td>Piperonyl butoxide</td>
<td>51-03-6</td>
<td>Yes</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**

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Emphasis</th>
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</thead>
<tbody>
<tr>
<td>Ethoxylated nonylphenol, branched</td>
<td>68412-54-4</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Propane</td>
<td>74-98-6</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Butane</td>
<td>106-97-8</td>
<td>Not Listed</td>
</tr>
<tr>
<td>(s)-Methoprene</td>
<td>65733-16-6</td>
<td>1.0 % de minimis concentration</td>
</tr>
<tr>
<td>Permethrin</td>
<td>52645-53-1</td>
<td></td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-Pyrrolidinone, 1-octyl</td>
<td>64742-47-8</td>
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<td>2687-94-7</td>
<td>Not Listed</td>
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<td>1.0 % de minimis concentration</td>
</tr>
<tr>
<td>Phenothrin</td>
<td>113-48-4</td>
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</tr>
<tr>
<td></td>
<td>26002-80-2</td>
<td>1.0 % de minimis concentration</td>
</tr>
</tbody>
</table>

### Section 16 - Other Information

**Last Revision Date** | 20/July/2015
**Preparation Date**   | 20/July/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.**