SAFETY DATA SHEET

1. Identification

Product identifier: CLAIRE BUG BUSTER INSECT KILLER

Other means of identification
SDS number: RE1000010168

Recommended restrictions
Product Use: Pesticide
Restrictions on use: Not known.

Manufacturer/Importer/Distributor Information

Manufacturer

Company Name: CLAIRE MANUFACTURING COMPANY
Address: 1000 Integram Dr
Pacific, MO 63069
Telephone: 1-630-543-7600
Fax:

Emergency telephone number: 1-866-836-8855

2. Hazard(s) identification

Hazard Classification

Physical Hazards
Flammable aerosol Category 1

Environmental Hazards
Acute hazards to the aquatic environment Category 2
Chronic hazards to the aquatic environment Category 2

Label Elements

Hazard Symbol:

Signal Word: Danger

Hazard Statement: Extremely flammable aerosol.
Toxic to aquatic life with long lasting effects.
Precautionary Statements

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid release to the environment.

Response: Collect spillage.

Storage: Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC): None.

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>CAS number</th>
<th>Content in percent (%)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propane</td>
<td>74-98-6</td>
<td>5 - &lt;10%</td>
</tr>
<tr>
<td>Butane</td>
<td>106-97-8</td>
<td>5 - &lt;10%</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
<td>64742-47-8</td>
<td>5 - &lt;10%</td>
</tr>
<tr>
<td>1,3-Benzodioxole, 5-{[2-(2-butoxyethoxy)ethoxy]methyl}-6-propyl-</td>
<td>51-03-6</td>
<td>1 - &lt;5%</td>
</tr>
<tr>
<td>Pyrethrins</td>
<td>8003-34-7</td>
<td>0.01 - &lt;1%</td>
</tr>
<tr>
<td>Acetic acid, pentyl ester</td>
<td>628-63-7</td>
<td>0 - &lt;0.1%</td>
</tr>
<tr>
<td>Acetic acid, phenylmethyl ester</td>
<td>140-11-4</td>
<td>0 - &lt;0.1%</td>
</tr>
</tbody>
</table>

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Ingestion: Rinse mouth thoroughly.

Inhalation: Move to fresh air.

Skin Contact: Remove contaminated clothing and wash the skin thoroughly with soap and water after work.

Eye contact: Rinse immediately with plenty of water.

Most important symptoms/effects, acute and delayed

Symptoms: No data available.

Hazards: No data available.
Indication of immediate medical attention and special treatment needed

Treatment: No data available.

5. Fire-fighting measures

General Fire Hazards: Use water spray to keep fire-exposed containers cool. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

Suitable (and unsuitable) extinguishing media

**Suitable extinguishing media:** Use fire-extinguishing media appropriate for surrounding materials.

**Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical: Vapors may travel considerable distance to a source of ignition and flash back.

Special protective equipment and precautions for firefighters

**Special fire fighting procedures:** No data available.

**Special protective equipment for fire-fighters:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:** Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind.

**Methods and material for containment and cleaning up:** Stop the flow of material, if this is without risk. Absorb with sand or other inert absorbent.

**Notification Procedures:** ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk.

**Environmental Precautions:** Avoid release to the environment. Prevent further leakage or spillage if safe to do so.

7. Handling and storage

**Precautions for safe handling:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use.

**Conditions for safe storage, including any incompatibilities:** Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Aerosol Level 1
## 8. Exposure controls/personal protection

### Control Parameters

#### Occupational Exposure Limits

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Type</th>
<th>Exposure Limit Values</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propane</td>
<td>REL</td>
<td>1,000 ppm 1,800 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td></td>
<td>PEL</td>
<td>1,000 ppm 1,800 mg/m³</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
<tr>
<td></td>
<td>TWA PEL</td>
<td>1,000 ppm 1,800 mg/m³</td>
<td>US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>1,000 ppm 1,800 mg/m³</td>
<td>US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>1,000 ppm 1,800 mg/m³</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)</td>
</tr>
<tr>
<td>Butane</td>
<td>REL</td>
<td>800 ppm 1,900 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>800 ppm 1,900 mg/m³</td>
<td>US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>1,000 ppm</td>
<td>US. ACGIH Threshold Limit Values (03 2018)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>800 ppm 1,900 mg/m³</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)</td>
</tr>
<tr>
<td></td>
<td>AN ESL</td>
<td>3,000 ppb</td>
<td>US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)</td>
</tr>
<tr>
<td></td>
<td>AN ESL</td>
<td>7,100 µg/m³</td>
<td>US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)</td>
</tr>
<tr>
<td></td>
<td>TWA PEL</td>
<td>800 ppm 1,900 mg/m³</td>
<td>US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)</td>
</tr>
<tr>
<td></td>
<td>ST ESL</td>
<td>66,000 µg/m³</td>
<td>US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)</td>
</tr>
<tr>
<td></td>
<td>ST ESL</td>
<td>28,000 ppb</td>
<td>US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)</td>
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<tr>
<td></td>
<td>TWA</td>
<td>200 mg/m³</td>
<td>US. ACGIH Threshold Limit Values (2008)</td>
</tr>
<tr>
<td></td>
<td>REL</td>
<td>100 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>200 mg/m³</td>
<td>US. ACGIH Threshold Limit Values (2008)</td>
</tr>
<tr>
<td></td>
<td>ST ESL</td>
<td>3,500 µg/m³</td>
<td>US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)</td>
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<tr>
<td></td>
<td>AN ESL</td>
<td>350 µg/m³</td>
<td>US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)</td>
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<tr>
<td></td>
<td>Pyrethrins</td>
<td>REL</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PEL</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AN ESL</td>
<td>5 µg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ST ESL</td>
<td>50 µg/m³</td>
</tr>
<tr>
<td></td>
<td>Value</td>
<td>Source</td>
<td></td>
</tr>
<tr>
<td>------------------------</td>
<td>-------------</td>
<td>------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>TWA</td>
<td>5 mg/m³</td>
<td>US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)</td>
<td></td>
</tr>
<tr>
<td>TWA PEL</td>
<td>5 mg/m³</td>
<td>US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)</td>
<td></td>
</tr>
<tr>
<td>Acetic acid, pentyl ester</td>
<td>REL</td>
<td>100 ppm, 525 mg/m³ US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
<td></td>
</tr>
<tr>
<td>TWA</td>
<td>50 ppm</td>
<td>US. ACGIH Threshold Limit Values (2008)</td>
<td></td>
</tr>
<tr>
<td>STEL</td>
<td>100 ppm</td>
<td>US. ACGIH Threshold Limit Values (2008)</td>
<td></td>
</tr>
<tr>
<td>STEL</td>
<td>532 mg/m³</td>
<td>US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)</td>
<td></td>
</tr>
<tr>
<td>TWA PEL</td>
<td>50 ppm, 266 mg/m³</td>
<td>US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)</td>
<td></td>
</tr>
<tr>
<td>TWA</td>
<td>5 ppm, 525 mg/m³</td>
<td>US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)</td>
<td></td>
</tr>
<tr>
<td>ST ESL</td>
<td>2,700 µg/m³</td>
<td>US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)</td>
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<tr>
<td>ST ESL</td>
<td>500 ppb</td>
<td>US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)</td>
<td></td>
</tr>
<tr>
<td>AN ESL</td>
<td>50 ppb</td>
<td>US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)</td>
<td></td>
</tr>
<tr>
<td>AN ESL</td>
<td>270 µg/m³</td>
<td>US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)</td>
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</tr>
<tr>
<td>PEL</td>
<td>100 ppm, 525 mg/m³</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
<td></td>
</tr>
<tr>
<td>TWA</td>
<td>100 ppm, 525 mg/m³</td>
<td>US. OSHA Table Z-T-A (29 CFR 1910.1000) (1989)</td>
<td></td>
</tr>
<tr>
<td>Acetic acid, phenylmethyl ester</td>
<td>TWA</td>
<td>10 ppm US. ACGIH Threshold Limit Values (2008)</td>
<td></td>
</tr>
<tr>
<td>TWA PEL</td>
<td>10 ppm, 61 mg/m³</td>
<td>US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)</td>
<td></td>
</tr>
<tr>
<td>ST ESL</td>
<td>100 ppb</td>
<td>US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)</td>
<td></td>
</tr>
<tr>
<td>AN ESL</td>
<td>10 ppb</td>
<td>US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)</td>
<td></td>
</tr>
<tr>
<td>ST ESL</td>
<td>610 µg/m³</td>
<td>US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)</td>
<td></td>
</tr>
<tr>
<td>AN ESL</td>
<td>61 µg/m³</td>
<td>US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)</td>
<td></td>
</tr>
</tbody>
</table>

**Appropriate Engineering Controls**

No data available.

**Individual protection measures, such as personal protective equipment**

**General information:** Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

**Eye/face protection:** Wear goggles/face shield.

**Skin Protection**

**Hand Protection:** No data available.

**Other:** No data available.
Respiratory Protection:  In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.

Hygiene measures:  When using do not smoke. Observe good industrial hygiene practices.

9. Physical and chemical properties

Appearance
  Physical state:  liquid
  Form:  Spray Aerosol
  Color:  No data available.
  Odor:  No data available.
  Odor threshold:  No data available.
  pH:  No data available.
  Melting point/freezing point:  No data available.
  Initial boiling point and boiling range:  No data available.
  Flash Point:  -104.44 °C
  Evaporation rate:  No data available.
  Flammability (solid, gas):  No data available.

Upper/lower limit on flammability or explosive limits
  Flammability limit - upper (%):  No data available.
  Flammability limit - lower (%):  No data available.
  Explosive limit - upper (%):  No data available.
  Explosive limit - lower (%):  No data available.

Vapor pressure:  5,171.068 - 6,550.0194 hPa (20 °C)

Vapor density:  No data available.
Density:  No data available.
Relative density:  No data available.

Solubility(ies)
  Solubility in water:  No data available.
  Solubility (other):  No data available.

Partition coefficient (n-octanol/water):  No data available.

Auto-ignition temperature:  No data available.
Decomposition temperature:  No data available.
Viscosity:  No data available.

10. Stability and reactivity

Reactivity:  No data available.

Chemical Stability:  Material is stable under normal conditions.

Possibility of hazardous reactions:  No data available.

Conditions to avoid:  Avoid heat or contamination.
11. Toxicological information

Information on likely routes of exposure

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: Not classified for acute toxicity based on available data.

Specified substance(s):
Distillates (petroleum), hydrotreated light
LD 50 (Rat): > 5,000 mg/kg

1,3-Benzodioxole, 5-[[2-[2-(2-butoxyethoxy)ethoxy]met hyl]-6-propyl-
LD 50 (Rat): 5,630 mg/kg

Pyrethrins
LD 50 (Rat): 500 - 1,000 mg/kg

Acetic acid, phenylmethyl ester
LD 50 (Rat): > 2,000 mg/kg
LD 50 (Mouse): > 2,000 mg/kg
LD 50 (Rat): 2,490 mg/kg

Dermal

Product: Not classified for acute toxicity based on available data.

Specified substance(s):
Distillates (petroleum), hydrotreated light
LD 50 (Rabbit): > 2,000 mg/kg
1,3-Benzodioxole, 5-[[2-(2-butoxyethoxy)ethoxy]methyl]-6-propyl-

Acetic acid, phenylmethyl ester

**Inhalation**

**Product:** Not classified for acute toxicity based on available data.

**Specified substance(s):**
- Propane
  - LC 50 (Mouse): 1,237 mg/l
- Butane
  - LC 50 (Mouse): 1,237 mg/l
- Distillates (petroleum), hydrotreated light
  - LC 50: > 5 mg/l
  - LC 50: > 20 mg/l
- 1,3-Benzodioxole, 5-[[2-(2-butoxyethoxy)ethoxy]methyl]-6-propyl-
- Acetic acid, phenylmethyl ester
  - LC Lo (Rat): > 0.766 mg/l

**Repeated dose toxicity**

**Product:** No data available.

**Specified substance(s):**
- Propane
  - NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation Experimental result, Key study
  - LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation Experimental result, Key study
- Butane
  - NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation Experimental result, Key study
  - LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation Experimental result, Key study
- Distillates (petroleum), hydrotreated light
  - NOAEL (Rat(Female, Male), Inhalation): >= 24 mg/m3 Inhalation Experimental result, Key study
  - NOAEL (Rat(Female), Oral, 70 - 147 d): 750 mg/kg Oral Experimental result, Key study
- 1,3-Benzodioxole, 5-[[2-(2-butoxyethoxy)ethoxy]methyl]-6-propyl-
  - NOAEL (Dog(Female, Male), Oral, 1 yr): 600 ppm(m) Oral Experimental result, Key study
  - LOAEL (Rat(Female, Male), Oral, 28 - 31 d): 250 mg/kg Oral Experimental result, Supporting study
  - NOAEL (Rat(Female, Male), Oral, 28 - 31 d): 125 mg/kg Oral Experimental result, Supporting study
  - NOAEL (Rabbit(Female, Male), Dermal): > 1,000 mg/kg Dermal Experimental result, Key study
  - LOAEL (Rat(Female, Male), Inhalation): >= 512 mg/m3 Inhalation Experimental result, Key study
- Acetic acid, phenylmethyl ester
  - NOAEL (Rat(Male), Oral, 13 Weeks): 900 mg/kg Oral Experimental result, Supporting study
NOAEL (Rat(Female), Oral, 13 Weeks): 480 mg/kg Oral Experimental result, Supporting study

Skin Corrosion/Irritation
Product: No data available.

Specified substance(s):
- Distillates (petroleum), hydrotreated light
- Acetic acid, phenylmethyl ester
  in vivo (Rabbit): Not irritant Experimental result, Key study

Serious Eye Damage/Eye Irritation
Product: No data available.

Specified substance(s):
- Distillates (petroleum), hydrotreated light
  Rabbit, 24 - 72 hrs: Not irritating

Respiratory or Skin Sensitization
Product: No data available.

Specified substance(s):
- Distillates (petroleum), hydrotreated light
- 1,3-Benzodioxole, 5-[[2-(2-butoxyethoxy)ethoxy]methyl]-6-propyl-
  Acetic acid, phenylmethyl ester
  Skin sensitization: in vivo (Guinea pig): Non sensitising
- Skin sensitization: in vivo (Guinea pig): Non sensitising
- Skin sensitization: in vivo (Guinea pig): Sensitising

Carcinogenicity
Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:
No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:
No carcinogenic components identified

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro
Product: No data available.

In vivo
Product: No data available.

Reproductive toxicity
Product: No data available.
Specific Target Organ Toxicity - Single Exposure
Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure
Product: No data available.

Aspiration Hazard
Product: No data available.

Specified substance(s):
Distillates (petroleum), hydrotreated light
May be fatal if swallowed and enters airways.

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish
Product: No data available.

Specified substance(s):
Propane
LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study
Butane
LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study
Distillates (petroleum), hydrotreated light
LC 50 (Rainbow trout, donaldson trout (Oncorhynchus mykiss), 96 h): 2.9 mg/l Mortality
NOAEL (Oncorhynchus mykiss, 96 h): 2 mg/l Experimental result, Key study

1,3-Benzodioxole, 5-[[2-(2-butoxyethoxy)ethoxy]methyl]-6-propyl-
LC 50 (Oncorhynchus mykiss, 96 h): 6.12 mg/l Experimental result, Key study
NOAEL (96 h): 0.625 mg/l Experimental result, Key study
Pyrethrins
LC 50 (Rainbow trout, donaldson trout (Oncorhynchus mykiss), 96 h): 0.013 - 0.0306 mg/l Mortality
LC 50 (Rainbow trout, donaldson trout (Oncorhynchus mykiss), 96 h): 0.02 - 0.03 mg/l Mortality
Acetic acid, pentyl ester
LC 50 (Western mosquitofish (Gambusia affinis), 96 h): 65 mg/l Mortality
Acetic acid, phenylmethyl ester
LC 50 (Medaka, high-eyes (Oryzias latipes), 96 h): 3.48 - 4.6 mg/l Mortality
LC 50 (Oryzias latipes, 96 h): 4 mg/l Other, Key study

Aquatic Invertebrates
Product: No data available.

Specified substance(s):
Butane
LC 50 (Daphnia sp., 48 h): 69.43 mg/l QSAR QSAR, Key study
Distillates (petroleum), hydrotreated light  
EC 50 (Daphnia magna, 24 h): 4.6 mg/l  Experimental result, Key study  
NOAEL (Daphnia magna, 48 h): 0.3 mg/l  Experimental result, Key study  
EC 50 (Daphnia magna, 48 h): 1.4 mg/l  Experimental result, Key study  

1,3-Benzodioxole, 5-[[2-(2-butoxyethoxy)ethoxy]methyl]-6-propyl-  
EC 50 (Daphnia magna, 48 h): 510 µg/l  Experimental result, Key study  

Pyrethrins  
EC 50 (Water flea (Daphnia), 48 h): 0.018 - 0.032 mg/l  Intoxication  

Acetic acid, pentyl ester  
LC 50 (Water flea (Daphnia magna), 24 h): 210 mg/l  Mortality  

Acetic acid, phenylmethyl ester  
EC 50 (Daphnia magna, 24 h): 25 mg/l  Experimental result, Key study  
EC 50 (Daphnia magna, 48 h): 17 mg/l  Experimental result, Key study  
NOAEL (Daphnia magna, 48 h): 10 mg/l  Experimental result, Key study  

**Chronic hazards to the aquatic environment:**  

**Fish**  
Product:  
NOEC : Estimated < 1 mg/l  

**Aquatic Invertebrates**  
Product:  
No data available.  

**Specified substance(s):**  
Distillates (petroleum), hydrotreated light  
NOAEL (Daphnia magna): 1.2 mg/l  Experimental result, Key study  
EC 50 (Daphnia magna): 0.81 mg/l  Experimental result, Key study  

1,3-Benzodioxole, 5-[[2-(2-butoxyethoxy)ethoxy]methyl]-6-propyl-  
LOAEL (Daphnia magna): 47 µg/l  Experimental result, Key study  
NOAEL (Daphnia magna): 30 µg/l  Experimental result, Key study  

**Toxicity to Aquatic Plants**  
Product:  
No data available.  

**Persistence and Degradability**  

**Biodegradation**  
Product:  
No data available.  

**Specified substance(s):**  
Propane  
100 % (385.5 h) Detected in water.  Experimental result, Key study  
50 % (3.19 d) Detected in water.  QSAR, Weight of Evidence study  

Butane  
100 % (385.5 h) Detected in water.  Experimental result, Key study  
50 % (3.19 d) Detected in water.  QSAR, Weight of Evidence study  

Distillates (petroleum), hydrotreated light  
61 % Detected in water.  Experimental result, Supporting study  

1,3-Benzodioxole, 5-[[2-(2-butoxyethoxy)ethoxy]methyl]-6-propyl-  
24 - 48 % (28 d) Detected in water.  Experimental result, Supporting study
Acetic acid, phenylmethyl ester 100 % (28 d) Detected in water. Experimental result, Key study

**BOD/COD Ratio**
Product: No data available.

**Bioaccumulative potential**

**Bioconcentration Factor (BCF)**
Product: No data available.

**Specified substance(s):**
1,3-Benzodioxole, 5-[[2-(2-butoxyethoxy)ethoxy]methyl]-6-propyl-

Bioconcentration Factor (BCF): 39.06 Aquatic sediment QSAR, Key study

Acetic acid, phenylmethyl ester Bioconcentration Factor (BCF): 8 Aquatic sediment Estimated by calculation, Key study

**Partition Coefficient n-octanol / water (log Kow)**
Product: No data available.

**Specified substance(s):**
1,3-Benzodioxole, 5-[[2-(2-butoxyethoxy)ethoxy]methyl]-6-propyl-

Log Kow: 4.8 - 5 20 - 25 °C

**Mobility in soil:** No data available.

**Known or predicted distribution to environmental compartments**
Propane No data available.
Butane No data available.
Distillates (petroleum), hydrotreated light No data available.
1,3-Benzodioxole, 5-[[2-(2-butoxyethoxy)ethoxy]methyl]-6-propyl- No data available.
Pyrethrins No data available.
Acetic acid, pentyl ester No data available.
Acetic acid, phenylmethyl ester No data available.

**Other adverse effects:** Toxic to aquatic life with long lasting effects.

### 13. Disposal considerations

**Disposal instructions:** Discharge, treatment, or disposal may be subject to national, state, or local laws.

**Contaminated Packaging:** No data available.
14. Transport information

DOT

UN Number: UN 1950
UN Proper Shipping Name: Aerosols, flammable
Transport Hazard Class(es)
  Class: 2.1
  Label(s): –
Packing Group: II
Marine Pollutant: No
Environmental Hazards: No
Marine Pollutant: No
Special precautions for user: Not regulated.

IMDG

UN Number: UN 1950
UN Proper Shipping Name: Aerosols, flammable
Transport Hazard Class(es)
  Class: 2
  Label(s): –
  EmS No.: F-D, S-U
Packing Group: –
Environmental Hazards: No
Marine Pollutant: Yes
Special precautions for user: Not regulated.

IATA

UN Number: UN 1950
Proper Shipping Name: Aerosols, flammable
Transport Hazard Class(es):
  Class: 2.1
  Label(s): –
Packing Group: –
Environmental Hazards: No
Marine Pollutant: Yes
Special precautions for user: Not regulated.

15. Regulatory information

US Federal Regulations
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
  US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
    None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Reportable quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propane</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>Butane</td>
<td>lbs. 100</td>
</tr>
</tbody>
</table>
Pyrethrins  lbs. 1
Butanoic acid, ethyl ester  lbs. 100
Acetic acid, pentyl ester  lbs. 5000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Fire Hazard
Flammable aerosol

SARA 302 Extremely Hazardous Substance

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Reportable</th>
<th>Threshold Planning Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SARA 304 Emergency Release Notification

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Reportable</th>
<th>Threshold Planning Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propane</td>
<td>lbs. 100</td>
<td></td>
</tr>
<tr>
<td>Butane</td>
<td>lbs. 100</td>
<td></td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pyrethrins</td>
<td>lbs. 1</td>
<td></td>
</tr>
<tr>
<td>Butanoic acid, ethyl ester</td>
<td>lbs. 100</td>
<td></td>
</tr>
<tr>
<td>Acetic acid, pentyl ester</td>
<td>lbs. 5000</td>
<td></td>
</tr>
</tbody>
</table>

SARA 311/312 Hazardous Chemical

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Threshold Planning Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propane</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Butane</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>1,3-Benzodioxole, 5-[[2-(2-butoxyethoxy)ethoxy][methyl]-6-propyl]-</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Pyrethrins</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Acetic acid, pentyl ester</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Acetic acid, phenylmethyl ester</td>
<td>10000 lbs</td>
</tr>
</tbody>
</table>

SARA 313 (TRI Reporting)

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Reporting threshold for other users</th>
<th>Reporting threshold for manufacturing and processing</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,3-Benzodioxole, 5-[[2-(2-butoxyethoxy)ethoxy][methyl]-6-propyl]-</td>
<td>lbs</td>
<td>lbs.</td>
</tr>
</tbody>
</table>
Propane
Butane
Distillates (petroleum), hydrotreated light
1,3-Benzodioxole, 5-[[2-(2-butoxyethoxy)ethoxy]methyl]-6-propyl-

**US. Massachusetts RTK - Substance List**
No ingredient regulated by MA Right-to-Know Law present.

**US. Pennsylvania RTK - Hazardous Substances**

**Chemical Identity**
Propane
Butane
Distillates (petroleum), hydrotreated light

**US. Rhode Island RTK**
No ingredient regulated by RI Right-to-Know Law present.

**International regulations**

**Montreal protocol**
Distillates (petroleum), hydrotreated light

**Stockholm convention**
Distillates (petroleum), hydrotreated light

**Rotterdam convention**
Distillates (petroleum), hydrotreated light

**Kyoto protocol**
### Inventory Status:

- **Australia AICS:** On or in compliance with the inventory
- **Canada DSL Inventory List:** On or in compliance with the inventory
- **EINECS, ELINCS or NLP:** Not in compliance with the inventory.
- **Japan (ENCS) List:** Not in compliance with the inventory.
- **China Inv. Existing Chemical Substances:** Not in compliance with the inventory.
- **Korea Existing Chemicals Inv. (KECI):** Not in compliance with the inventory.
- **Canada NDSL Inventory:** Not in compliance with the inventory.
- **Philippines PICCS:** On or in compliance with the inventory
- **US TSCA Inventory:** Not in compliance with the inventory.
- **New Zealand Inventory of Chemicals:** On or in compliance with the inventory
- **Japan ISHL Listing:** Not in compliance with the inventory.
- **Japan Pharmacopoeia Listing:** Not in compliance with the inventory.
- **Mexico INSQ:** On or in compliance with the inventory
- **Ontario Inventory:** Not in compliance with the inventory.
- **Taiwan Chemical Substance Inventory:** On or in compliance with the inventory

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### 16. Other information, including date of preparation or last revision

<table>
<thead>
<tr>
<th><strong>Issue Date:</strong></th>
<th>06/12/2019</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Revision Information:</strong></td>
<td>No data available.</td>
</tr>
<tr>
<td><strong>Version #:</strong></td>
<td>1.0</td>
</tr>
<tr>
<td><strong>Further Information:</strong></td>
<td>FIFRA: 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 pesticide label also includes other important information, including directions for use.</td>
</tr>
</tbody>
</table>

**Disclaimer:** This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.