SAFETY DATA SHEET

1. Identification

Product identifier: WILD CHERRY METERED AIR FRESHENER

Other means of identification
SDS number: RE1000003934

Recommended restrictions
Product use: Air Freshener
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

Health Hazards
Serious Eye Damage/Eye Irritation Category 2A
Specific Target Organ Toxicity - Single Exposure Category 3¹

Target Organs
1. Narcotic effect.

Environmental Hazards
Acute hazards to the aquatic environment Category 2

Label Elements

Hazard Symbol:

Signal Word: Danger
Hazard Statement: Extremely flammable aerosol. Causes serious eye irritation. May cause drowsiness or dizziness. Toxic to aquatic life.

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. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Avoid release to the environment.

Response: IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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. Call a POISON CENTER/doctor if you feel unwell.

Storage: Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store in a well-ventilated place. Keep container tightly closed. Store locked up.

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>2-Propanone</td>
<td>67-64-1</td>
<td>50 - &lt;100%</td>
</tr>
<tr>
<td>Propane</td>
<td>74-98-6</td>
<td>10 - &lt;20%</td>
</tr>
<tr>
<td>Butane</td>
<td>106-97-8</td>
<td>10 - &lt;20%</td>
</tr>
<tr>
<td>Benzaldehyde</td>
<td>100-52-7</td>
<td>1 - &lt;5%</td>
</tr>
<tr>
<td>Ethanone, 1-phenyl-</td>
<td>98-86-2</td>
<td>0.1 - &lt;1%</td>
</tr>
<tr>
<td>Acetic acid, pentyl ester</td>
<td>628-63-7</td>
<td>0.1 - &lt;1%</td>
</tr>
<tr>
<td>2H-1-Benzopyran-2-one</td>
<td>91-64-5</td>
<td>0.1 - &lt;1%</td>
</tr>
<tr>
<td>Acetic acid, phenylmethyl ester</td>
<td>140-11-4</td>
<td>0.1 - &lt;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:
Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

### Most important symptoms/effects, acute and delayed

**Symptoms:**
No data available.

**Hazard:**
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. 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. 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:**
Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.

**Notification Procedures:**
Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. 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. Do not contaminate water sources or sewer.
7. Handling and storage

Precautions for safe handling: Avoid contact with eyes. Wash hands thoroughly after 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 3

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>2-Propanone</td>
<td>STEL</td>
<td>1,000 ppm 2,400 mg/m³</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.100) (1989)</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>750 ppm 1,780 mg/m³</td>
<td>US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)</td>
</tr>
<tr>
<td></td>
<td>PEL</td>
<td>1,000 ppm 2,400 mg/m³</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.100) (02 2006)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>250 ppm</td>
<td>US. ACGIH Threshold Limit Values (03 2015)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>750 ppm 1,800 mg/m³</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.100) (1989)</td>
</tr>
<tr>
<td></td>
<td>Ceiling</td>
<td>3,000 ppm</td>
<td>US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>500 ppm</td>
<td>US. ACGIH Threshold Limit Values (03 2015)</td>
</tr>
<tr>
<td></td>
<td>TWA PEL</td>
<td>500 ppm 1,200 mg/m³</td>
<td>US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)</td>
</tr>
<tr>
<td></td>
<td>REL</td>
<td>250 ppm 590 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<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 1910.100) (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 1910.100) (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 1910.100) (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>
</tr>
<tr>
<td>Ethanone, 1-phenyl-</td>
<td>TWA</td>
<td>10 ppm 50 mg/m³</td>
<td>US. OARS. WEELs Workplace Environmental Exposure Level Guide (2007)</td>
</tr>
<tr>
<td></td>
<td>ST ESL</td>
<td>490 µg/m³</td>
<td>US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>10 ppm</td>
<td>US. ACGIH Threshold Limit Values (2008)</td>
</tr>
<tr>
<td></td>
<td>TWA PEL</td>
<td>10 ppm 49 mg/m³</td>
<td>US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)</td>
</tr>
<tr>
<td>Chemical</td>
<td>TWA PEL</td>
<td>STEL</td>
<td>REL</td>
</tr>
<tr>
<td>-----------------------------------------------</td>
<td>---------</td>
<td>------</td>
<td>-----</td>
</tr>
<tr>
<td>Acetic acid, pentyl ester</td>
<td>10 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acetic acid, phenylmethyl ester</td>
<td>10 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethanol, 2,2',2''-tris(1,1-bis(1,1-iminobis-4-nitrolo)-4-methyl)-ethyldimethyl</td>
<td>5 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phenol, 2,6-bis(1,1-dimethyl)-4-methyl</td>
<td>10 mg/m3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phenol, 2,6-bis(1,1-dimethyl)-4-methyl - Inhalable fraction and vapor.</td>
<td>2 mg/m3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethanol, 2,2''-iminobis-</td>
<td>3 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethanol, 2,2''-iminobis - Inhalable fraction and vapor.</td>
<td>1 mg/m3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethanol, 2,2''-iminobis-</td>
<td>3 ppm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Biological Limit Values

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Exposure Limit Values</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanone (acetone): Sampling time: End of shift</td>
<td>25 mg/l (Urine)</td>
<td>ACGIH BEL (03 2015)</td>
</tr>
</tbody>
</table>

Appropriate Engineering Controls

No data available.

Individual protection measures, such as personal protective equipment

General information:
Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Eye/face protection:
Wear safety glasses with side shields (or goggles).

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:
Avoid contact with eyes. Observe good industrial hygiene practices. When using do not smoke.

9. Physical and chemical properties

Appearance

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

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:
3,102.6408 - 4,481.5922 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.
Incompatible Materials: No data available.
Hazardous Decomposition Products: No data available.

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:** ATEmix: 21,267.11 mg/kg

**Dermal**
- **Product:** ATEmix: 141,600.1 mg/kg

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

**Specified substance(s):**
- **2-Propanone**
  - LC 50 (Rat): 50.1 mg/l
- **Propane**
  - LC 50 (Mouse): 1,237 mg/l
- **Butane**
  - LC 50 (Mouse): 1,237 mg/l
- **Benzaldehyde**
  - LC 50 (Rat): > 1 - < 5 mg/l
- **2H-1-Benzopyran-2-one**
  - LC 50: > 5 mg/l
  - LC 50: > 20 mg/l
- **Acetic acid, phenylmethyl ester**
  - LC Lo (Rat): > 0.766 mg/l

Repeated dose toxicity

**Product:** No data available.

**Specified substance(s):**
- **2-Propanone**
  - NOAEL (Rat(Male), Oral, 13 Weeks): 10,000 ppm(m) Oral Experimental result, Key study
- **Propane**
  - NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation Experimental result, Key study
  - LOAEL (Rat(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(Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation Experimental result, Key study
- **Benzaldehyde**
  - LOAEL (Rat(Female, Male), Inhalation, 14 d): 500 ppm(m) Inhalation Experimental result, Key study
- **Ethanone, 1-phenyl-**
  - NOAEL (Rat(Female, Male), Oral, 17 Weeks): 10,000 ppm(m) Oral Experimental result, Supporting study
  - NOAEL (Rat(Female, Male), Oral): 225 mg/kg Oral Experimental result, Key study
  - LOAEL (Rat(Male), Oral): 750 mg/kg Oral Experimental result, Key study
- **2H-1-Benzopyran-2-one**
  - NOAEL (Rat(Male), Inhalation, 104 - 110 Weeks): 42 mg/kg 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):
- 2-Propanone: in vivo (Rabbit): Not irritant Experimental result, Supporting study
- Benzaldehyde: in vivo (Rabbit): no conclusion can be drawn due to limited data Experimental result, Weight of Evidence study
- Ethanone, 1-phenyl-: in vivo (Rabbit): Not irritant Experimental result, Key study
- 2H-1-Benzopyran-2-one: in vivo (Rabbit): Not irritant Experimental result, Key study
- 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):
- 2-Propanone: Irritating, Rabbit, 24 hrs: Minimum grade of severe eye irritant
- Ethanone, 1-phenyl-: Rabbit, 24 - 72 hrs: Not irritating Rabbit, 48 hrs: Not irritating

Respiratory or Skin Sensitization
Product: No data available.

Specified substance(s):
- 2-Propanone: Skin sensitization:, in vivo (Guinea pig): Non sensitising
- Benzaldehyde: Skin sensitization:, in vivo (Guinea pig): Non sensitising
- Acetic acid, phenylmethyl ester: 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.
Specified substance(s):
2-Propanone
Inhalation - vapor: Narcotic effect. - Category 3 with narcotic effects.

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

Target Organs
Specific Target Organ Toxicity - Single Exposure: Narcotic effect.

Aspiration Hazard
Product: No data available.

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish
Product: No data available.
Specified substance(s):
2-Propanone
LC 50 (Oncorhynchus mykiss, 96 h): 5,540 mg/l Experimental result, Key study
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
Benzaldehyde
LC 50 (96 h): 12.4 mg/l Experimental result, Key study
Ethanone, 1-phenyl-
LC 50 (Fathead minnow (Pimephales promelas), 48 h): 164 mg/l Mortality
LC 50 (Fathead minnow (Pimephales promelas), 72 h): 158 mg/l Mortality
LC 50 (Fathead minnow (Pimephales promelas), 96 h): 162 mg/l Mortality
LC 50 (Fathead minnow (Pimephales promelas), 1 h): > 200 mg/l Mortality
LC 50 (Fathead minnow (Pimephales promelas), 24 h): 164 mg/l Mortality
Acetic acid, pentyl ester | LC 50 (Western mosquitofish (Gambusia affinis), 96 h): 65 mg/l Mortality
2H-1-Benzopyran-2-one | LC 50 (Guppy (Poecilia reticulata), 96 h): 32 - 100 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):**

- 2-Propanone | LC 50 (Daphnia pulex, 48 h): 8,800 mg/l Experimental result, Key study
- Butane | LC 50 (Daphnia sp., 48 h): 69.43 mg/l QSAR QSAR, Key study
- Benzaldehyde | EC 50 (Daphnia magna, 24 h): 50 mg/l Experimental result, Key study
- Ethanone, 1-phenyl- | LC 50 (Daphnia magna, 48 h): 528 mg/l Experimental result, Key study
LC 50 (Daphnia magna, 48 h): 162 mg/l Experimental result, Not specified
- Acetic acid, pentyl ester | LC 50 (Water flea (Daphnia magna), 24 h): 210 mg/l Mortality
- 2H-1-Benzopyran-2-one | LC 50 (Water flea (Daphnia magna), 48 h): 10 - 18 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:** No data available.

**Specified substance(s):**

- 2H-1-Benzopyran-2-one | NOAEL: 0.191 mg/l QSAR QSAR, Key study

**Aquatic Invertebrates**

**Product:** No data available.

**Specified substance(s):**

- 2-Propanone | LOAEL (Daphnia magna): 2,212 mg/l Experimental result, Key study
NOAEL (Daphnia magna): 2,212 mg/l Experimental result, Key study
- 2H-1-Benzopyran-2-one | NOAEL (Daphnia sp.): 0.5 mg/l QSAR QSAR, Key study

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Persistence and Degradability**

**Biodegradation**

**Product:** No data available.

**Specified substance(s):**

- 2-Propanone | 90.9 % (28 d) Detected in water. Experimental result, Key study
<table>
<thead>
<tr>
<th>Substance</th>
<th>% Detected</th>
<th>Type</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propane</td>
<td>100 % (385.5 h)</td>
<td>Detected in water. Experimental result, Key study</td>
<td></td>
</tr>
<tr>
<td>Butane</td>
<td>100 % (385.5 h)</td>
<td>Detected in water. Experimental result, Key study</td>
<td></td>
</tr>
<tr>
<td>Benzaldehyde</td>
<td>&gt;= 95 %</td>
<td>Detected in water. Experimental result, Key study</td>
<td></td>
</tr>
<tr>
<td>Ethanone, 1-phenyl-</td>
<td>&gt; 30 % (14 d)</td>
<td>Detected in water. Experimental result, Not specified</td>
<td></td>
</tr>
<tr>
<td>2H-1-Benzopyran-2-one</td>
<td>90 %</td>
<td>Detected in water. Experimental result, Key study</td>
<td></td>
</tr>
<tr>
<td>Acetic acid, phenylmethyl ester</td>
<td>100 % (28 d)</td>
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</tr>
</tbody>
</table>

**BOD/COD Ratio**

<table>
<thead>
<tr>
<th>Substance</th>
<th>% Detected</th>
<th>Type</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propane</td>
<td>100 % (385.5 h)</td>
<td>Detected in water. Experimental result, Key study</td>
<td></td>
</tr>
<tr>
<td>Butane</td>
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**Bioaccumulative potential**

**Bioconcentration Factor (BCF)**

<table>
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**Partition Coefficient n-octanol / water (log Kow)**

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**Mobility in soil:**

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</tbody>
</table>

**Known or predicted distribution to environmental compartments**

<table>
<thead>
<tr>
<th>Substance</th>
<th>% Detected</th>
<th>Type</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanone</td>
<td>No data available.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Propane</td>
<td>No data available.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Butane</td>
<td>No data available.</td>
<td></td>
<td></td>
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</table>

**Mobility in soil:**

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<td>No data available.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
2H-1-Benzopyran-2-one
Acetic acid, phenylmethyl ester

No data available.
No data available.

Other adverse effects: Toxic to aquatic organisms.

### 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:** Yes
- **Marine Pollutant:** No
- **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:** Yes
- **Marine Pollutant:** No
- **Special precautions for user:** Not regulated.
- **Cargo aircraft only:** Allowed.
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>2-Propanone</td>
<td>lbs. 5000</td>
</tr>
<tr>
<td>Propane</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>Butane</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>Ethanone, 1-phenyl-</td>
<td>lbs. 5000</td>
</tr>
<tr>
<td>Butanoic acid, ethyl ester</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>Acetic acid, pentyler ester</td>
<td>lbs. 5000</td>
</tr>
<tr>
<td>Ethanol, 2,2'-iminobisis-</td>
<td>lbs. 100</td>
</tr>
</tbody>
</table>

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
- Fire Hazard
- Immediate (Acute) Health Hazards
- Flammable aerosol
- Serious Eye Damage/Eye Irritation
- Specific Target Organ Toxicity - Single Exposure

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SARA 304 Emergency Release Notification

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<td>lbs. 100</td>
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SARA 311/312 Hazardous Chemical

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Threshold Planning Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanone</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Propane</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Butane</td>
<td>10000 lbs</td>
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<td>10000 lbs</td>
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<td>Acetic acid, pentyler ester</td>
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<tr>
<td>2H-1-Benzopyran-2-one</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Acetic acid, phenylmethyl ester</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Ethanol, 2,2',2''-nitritrotsis-</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Phenol, 2,6-bis(1,1- dimethylethyl)-4-methyl-</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Ethanol, 2,2'-iminobisis-</td>
<td>10000 lbs</td>
</tr>
</tbody>
</table>
SARA 313 (TRI Reporting)
None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):
Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)
US State Regulations

US. California Proposition 65
This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

Ethanol, 2,2'-iminobis- Carcinogenic. 07 2012

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity
2-Propanone
Propane
Butane
Benzaldehyde

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

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity
2-Propanone
Propane
Butane
Benzaldehyde

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

International regulations

Montreal protocol
Not applicable

Stockholm convention
Not applicable

Rotterdam convention
Not applicable

Kyoto protocol
Not applicable
Inventory Status:

Australia AICS: Not 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: Not in compliance with the inventory.

US TSCA Inventory: On or in compliance with the inventory

New Zealand Inventory of Chemicals: Not 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: Not in compliance with the inventory.

Ontario Inventory: Not in compliance with the inventory.

Taiwan Chemical Substance Inventory: Not in compliance with the inventory.

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

Issue Date: 07/22/2019

Revision Information: No data available.

Version #: 0.0

Further Information: No data available.

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.