SAFETY DATA SHEET

1. Identification

Product identifier: WARM WELCOME METERED AIR FRESHENER

Other means of identification
SDS number: RE1000004539

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
  Skin sensitizer  Category 1
  Carcinogenicity  Category 1B
  Specific Target Organ Toxicity - Single Exposure  Category 3

Target Organs
  1. Narcotic effect.

Environmental Hazards
  Acute hazards to the aquatic environment  Category 3

Label Elements

Hazard Symbol:
Signal Word: Danger

Hazard Statement: Extremely flammable aerosol. Causes serious eye irritation. May cause an allergic skin reaction. May cause cancer. May cause drowsiness or dizziness. Harmful 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. Contaminated work clothing should not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. 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. IF ON SKIN: Wash with plenty of water/# If skin irritation or rash occurs: Get medical advice/attention. Call a POISON CENTER/doctor if you feel unwell. Specific treatment (see on this label). Wash contaminated clothing before reuse.

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

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>2-Propenal, 3-phenyl-</td>
<td>104-55-2</td>
<td>0.1 - &lt;1%</td>
</tr>
</tbody>
</table>
4. First-aid measures

Ingestion: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

Inhalation: Move to fresh air.

Skin Contact: If skin irritation occurs: Get medical advice/attention. Destroy or thoroughly clean contaminated shoes. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction develops, get medical attention.

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.

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.
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. See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

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:
Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. 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. Avoid contact with eyes, skin, and clothing.

Conditions for safe storage, including any incompatibilities:
Store locked up. 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

<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 1910.1000) (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 1910.1000) (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 1910.1000) (1989)</td>
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<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>
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<tr>
<td></td>
<td>STEL</td>
<td>500 ppm</td>
<td>US. ACGIH Threshold Limit Values (03 2015)</td>
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<tr>
<td>Compound</td>
<td>REL</td>
<td>PEL</td>
<td>TWA PEL</td>
</tr>
<tr>
<td>---------------------------------------------</td>
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<td>----------</td>
</tr>
<tr>
<td>Propane</td>
<td>250 ppm</td>
<td>1,800 mg/m³</td>
<td>1,800 mg/m³</td>
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<tr>
<td></td>
<td>1,000 ppm</td>
<td>1,800 mg/m³</td>
<td>1,800 mg/m³</td>
</tr>
<tr>
<td>Butane</td>
<td>800 ppm</td>
<td>1,900 mg/m³</td>
<td>1,900 mg/m³</td>
</tr>
<tr>
<td></td>
<td>800 ppm</td>
<td>1,900 mg/m³</td>
<td>1,900 mg/m³</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>1,000 ppm</td>
<td>1,900 mg/m³</td>
</tr>
<tr>
<td></td>
<td>AN ESL</td>
<td>3,000 ppb</td>
<td>61 mg/m³</td>
</tr>
<tr>
<td></td>
<td>7,100 µg/m³</td>
<td>310 µg/m³</td>
<td>61 µg/m³</td>
</tr>
<tr>
<td></td>
<td>TWA PEL</td>
<td>800 ppm</td>
<td>1,900 mg/m³</td>
</tr>
<tr>
<td></td>
<td>ST ESL</td>
<td>66,000 µg/m³</td>
<td>310 µg/m³</td>
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<tr>
<td></td>
<td>AN ESL</td>
<td>3,000 ppb</td>
<td>61 µg/m³</td>
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<tr>
<td></td>
<td>61 µg/m³</td>
<td>31 µg/m³</td>
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<td></td>
<td>5 ppb</td>
<td>5 ppb</td>
<td>5 ppb</td>
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<tr>
<td></td>
<td>AN ESL</td>
<td>3,000 ppb</td>
<td>61 µg/m³</td>
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<tr>
<td></td>
<td>5 ppb</td>
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<tr>
<td>Section 5155. Airborne Contaminants (09 2006)</td>
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<td></td>
</tr>
<tr>
<td>---------------------------------------------</td>
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</tr>
<tr>
<td>ST ESL</td>
<td>50 µg/m³ (U.S. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016))</td>
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</tr>
<tr>
<td>TWA</td>
<td>5 mg/m³ (U.S. ACGIH Threshold Limit Values (2008))</td>
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<tr>
<td>AN ESL</td>
<td>5 µg/m³ (U.S. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016))</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethanol, 2,2'-iminobis- REL</td>
<td>3 ppm 15 mg/m³ (U.S. NIOSH: Pocket Guide to Chemical Hazards (2005))</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AN ESL</td>
<td>7 µg/m³ (U.S. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016))</td>
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</tr>
<tr>
<td>TWA</td>
<td>3 ppm 15 mg/m³ (U.S. OSHA Table Z-1-A (29 CFR 1910.1000) (1989))</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TWA PEL</td>
<td>0.46 ppm 2 mg/m³ (U.S. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006))</td>
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<tr>
<td>ST ESL</td>
<td>97 µg/m³ (U.S. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016))</td>
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<tr>
<td>Ethanol, 2,2'-iminobis- Inhalable fraction and vapor. TWA</td>
<td>1 mg/m³ (U.S. ACGIH Threshold Limit Values (2009))</td>
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<td></td>
</tr>
<tr>
<td>Ethanol, 2,2'-iminobis- TWA</td>
<td>3 ppm 15 mg/m³ (U.S. Tennessee, OELs. Occupational Exposure Limits, Table Z1A (06 2008))</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:**

Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.

#### Respiratory Protection:

In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.

#### Hygiene measures:

Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Avoid contact with eyes. When using do not smoke. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin.
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: 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: Not classified for acute toxicity based on available data.

Specified substance(s):
- 2-Propanone
  - LD 50 (Rat): 5,800 mg/kg
- 2-Propenal, 3-phenyl-1-yll
  - LD 50 (Rat): 2,220 mg/kg
- Phenol, 2-methoxy-4-(2-propen-1-yl)-
  - LD 50 (Rat): > 2,000 mg/kg
- Oils, cinnamon
  - LD 50: > 2,650 mg/kg
- Oils, orange, sweet
  - LD 50: > 2,000 mg/kg
- 2,6-Octadienal, 3,7-dimethyl-ld
  - LD 50 (Rat): 6,800 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
- Proprietary Fragrance
  - LD 50: > 2,000 mg/kg

Dermal

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

Specified substance(s):
- 2-Propanone
  - LD 50 (Rabbit): > 7,426 mg/kg
- 2-Propenal, 3-phenyl-
  - LD 50 (Rabbit): 1,260 mg/kg
Phenol, 2-methoxy-4-(2-propen-1-yl)-
LD 50: > 2,000 mg/kg

Oils, cinnamon
LD 50: > 2,000 mg/kg

Oils, orange, sweet
LD 50: > 2,000 mg/kg

2,6-Octadienal, 3,7-dimethyl-
LD 50 (Rat): > 2,000 mg/kg

Acetic acid, phenylmethyl ester
LD 50 (Rabbit): > 5 g/kg

Proprietary Fragrance
LD 50: > 2,000 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
LD 50: > 5 mg/l

Propane
LC 50 (Mouse): 1,237 mg/l

Butane
LC 50 (Mouse): 1,237 mg/l

Phenol, 2-methoxy-4-(2-propen-1-yl)-
LC 50: > 20 mg/l
LD 50 (Rat): > 2.6 mg/l

Oils, cinnamon
LC 50: > 5 mg/l
LD 50: > 20 mg/l

Oils, orange, sweet
LC 50: > 5 mg/l
LD 50: > 20 mg/l

2,6-Octadienal, 3,7-dimethyl-
LC 50: > 20 mg/l
LD 50: > 5 mg/l

Acetic acid, phenylmethyl ester
LC Lo (Rat): > 0.766 mg/l

Proprietary Fragrance
LC 50: > 5 mg/l
LD 50: > 20 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(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
2-Propanal, 3-phenyl- 

NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation Experimental result, Key study

Phenol, 2-methoxy-4- (2-propen-1-yl)-

NOAEL (Rat(Female), Oral, 12 Weeks): 200 mg/kg Oral Experimental result, Key study

2,6-Octadienal, 3,7-dimethyl-

LOAEL (Rat(Female, Male), Oral, 104 -105 Weeks): 210 mg/kg Oral Experimental result, Key study

LOAEL (Rat(Female), Oral, 14 Weeks): 335 mg/kg Oral 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

2-Propanal, 3-phenyl- in vivo (Human): Irritating. Experimental result, Key study

Phenol, 2-methoxy-4-(2-propen-1-yl)-

in vivo (Rabbit): Not Classified 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

Respiratory or Skin Sensitization
Product: No data available.

Specified substance(s):

2-Propanone 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.
Specified substance(s): Phenol, 2-methoxy-4-(2-propen-1-yl)-
Oils, orange, sweet
Proprietary Fragrance
Other effects: 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):
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
2-Propenal, 3-phenyl- LC 50 (Pimephales promelas, 96 h): 105.7637 mg/l QSAR QSAR, Weight of Evidence study
Phenol, 2-methoxy-4-(2-propen-1-yl)- LC 50 (Danio rerio, 96 h): 13 mg/l Experimental result, Key study
NOAEL (Danio rerio, 96 h): 10 mg/l Experimental result, Key study
<table>
<thead>
<tr>
<th>Substance</th>
<th>LC 50 (96 h)</th>
<th>LC 50 (96 h)</th>
<th>LC 50 (96 h)</th>
<th>LC 50 (96 h)</th>
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</thead>
<tbody>
<tr>
<td>Oils, orange, sweet</td>
<td>&lt; 1 mg/l</td>
<td>6.78 mg/l</td>
<td>3.48 - 4.6 mg/l</td>
<td>4 mg/l</td>
</tr>
<tr>
<td>2,6-Octadienal, 3,7-dimethyl-</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Acetic acid, phenylmethyl ester</td>
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<tr>
<td>Aquatic Invertebrates</td>
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<tr>
<td>Specified substance(s):</td>
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<tr>
<td>2-Propanone</td>
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<tr>
<td>Butane</td>
<td></td>
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<tr>
<td>2-Propanal, 3-phenyl-</td>
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<tr>
<td>Phenol, 2-methoxy-4-(2-propen-1-yl)-</td>
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<td>Oils, cinnamon</td>
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<td>2,6-Octadienal, 3,7-dimethyl-</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Acetic acid, phenylmethyl ester</td>
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<tr>
<td>Chronic hazards to the aquatic environment:</td>
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<tr>
<td>Fish</td>
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<td>Aquatic Invertebrates</td>
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<tr>
<td>2-Propanone</td>
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<tr>
<td>Butane</td>
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<td>Toxicity to Aquatic Plants</td>
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<td>No data available.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Biodegradation</td>
<td>No data available.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specified substance(s):</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-Propanone</td>
<td>90.9 % (28 d) Detected in water.</td>
<td>Experimental result, Key study</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Propane</td>
<td>100 % (385.5 h) Detected in water.</td>
<td>Experimental result, Key study</td>
<td></td>
<td></td>
</tr>
<tr>
<td>50 % (3.19 d) Detected in water.</td>
<td>QSAR, Weight of Evidence study</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Butane</td>
<td>100 % (385.5 h) Detected in water.</td>
<td>Experimental result, Key study</td>
<td></td>
<td></td>
</tr>
<tr>
<td>50 % (3.19 d) Detected in water.</td>
<td>QSAR, Weight of Evidence study</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
2-Propanone, 10 \% Detected in water. Experimental result, Supporting study

2-Propanal, 3-phenyl- 10 \% Detected in water. Experimental result, Supporting study

Phenol, 2-methoxy-4-(2-propan-1-yl)- 82 \% Detected in water. Experimental result, Key study

Oils, cinnamon The product is easily biodegradable.

Oils, orange, sweet < 70 \% (10 d, Assessment)

2,6-Octadienal, 3,7-dimethyl- 85 - 95 \% (28 d) Detected in water. Experimental result, Key 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):
2-Propanone Haddock, adult, Bioconcentration Factor (BCF): 0.69 Aquatic sediment Experimental result, Not specified

2-Propanal, 3-phenyl- Bioconcentration Factor (BCF): 16.4 Aquatic sediment Estimated by calculation, Supporting study

2,6-Octadienal, 3,7-dimethyl- Bioconcentration Factor (BCF): 89.72 Aquatic sediment Estimated by calculation, 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):
Phenol, 2-methoxy-4-(2-propan-1-yl)- Log Kow: 1.83 30 °C

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

2-Propanone No data available.
Propane No data available.
Butane No data available.
2-Propanal, 3-phenyl- No data available.
Phenol, 2-methoxy-4-(2-propan-1-yl)- No data available.
Oils, cinnamon No data available.
Oils, orange, sweet No data available.
2,6-Octadienal, 3,7-dimethyl- No data available.
Acetic acid, phenylmethyl ester
Proprietary Fragrance

Other adverse effects: Harmful 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.: –

Environmental Hazards: No
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): –

Environmental Hazards: No
Marine Pollutant: No
Special precautions for user: Not regulated.
15. Regulatory information

US Federal Regulations

Restrictions on use: Not known.

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>Ethanol, 2,2’-iminobis-</td>
<td>lbs. 100</td>
</tr>
</tbody>
</table>

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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

SARA 302 Extremely Hazardous Substance

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Reportable quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanone</td>
<td></td>
</tr>
</tbody>
</table>

SARA 304 Emergency Release Notification

<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>Ethanol, 2,2’-iminobis-</td>
<td>lbs. 100</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>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>
</tr>
<tr>
<td>2-Propenal, 3-phenyl-</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Phenol, 2-methoxy-4-(2-propen-1-yl)-</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Oils, cinnamon</td>
<td>10000 lbs</td>
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<tr>
<td>Oils, orange, sweet</td>
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<tr>
<td>2,6-Octadienal, 3,7-dimethyl-</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Acetic acid, phenylmethyl ester</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Proprietary Fragrance</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Ethanol, 2,2’,2”-nitrilotris-</td>
<td>10000 lbs</td>
</tr>
</tbody>
</table>

SDS_US - RE1000004539
Ethanol, 2,2’-iminobis- 10000 lbs

**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

**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

**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: 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: On or 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: Not in compliance with the inventory.
Ontario Inventory: On or in compliance with the inventory
Taiwan Chemical Substance Inventory: On or in compliance with the inventory

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

Issue Date: 08/09/2019
Revision Information: No data available.
Version #: 1.0
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.