# SAFETY DATA SHEET

## 1. Identification

**Product identifier:** FRESH LINEN MICRO METER AIR FRESHENER

**Other means of identification**
- **SDS number:** RE1000004322

**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
- Toxic to reproduction: Category 2
- Specific Target Organ Toxicity - Single Exposure: Category 3

#### Target Organs
- 1. Narcotic effect.

#### Environmental Hazards
- Acute hazards to the aquatic environment: Category 3
- Chronic hazards to the aquatic environment: Category 3

### Label Elements

**Hazard Symbol:**
Signal Word: Danger

Hazard Statement: Extremely flammable aerosol. Causes serious eye irritation. Suspected of damaging fertility or the unborn child. May cause drowsiness or dizziness. Harmful 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. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. 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 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>Benzoic acid, 2-hydroxy-, phenylmethyl ester</td>
<td>118-58-1</td>
<td>0.1 - &lt;1%</td>
</tr>
<tr>
<td>Cyclopenta[g]-2-benzopyran, 1,3,4,6,7,8-hexahydro-4,6,7,8,8-hexamethyl-</td>
<td>122-05-5</td>
<td>0.1 - &lt;1%</td>
</tr>
<tr>
<td>Benzenepropanal, 4-(1,1-dimethylethyl)-a-methyl-</td>
<td>80-54-6</td>
<td>0.1 - &lt;1%</td>
</tr>
<tr>
<td>Ethanone, 1-[(3R,3aR,7R,8aS)-2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl]-</td>
<td>32388-55-9</td>
<td>0.1 - &lt;1%</td>
</tr>
<tr>
<td>3-Buten-2-one, 3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-</td>
<td>127-51-5</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:** Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

**Inhalation:** Move to fresh air.

**Skin Contact:** Wash skin thoroughly with soap and water. If skin irritation occurs: Get medical advice/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 firefighting 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. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required.

**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. Store locked up. Aerosol Level 3

8. Exposure controls/personal protection

Control Parameters
SDS_US - RE1000004322
### 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 1910.1000) (1989)</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>
</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>REL</td>
<td>250 ppm 590 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2006)</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 1910.1000) (02 2006)</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>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>Ethanol, 2,2',2''-nitrilotris-</td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>US. ACGIH Threshold Limit Values (2008)</td>
</tr>
<tr>
<td>Ethanol, 2,2'-iminobis-</td>
<td>REL</td>
<td>3 ppm 15 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td>Ethanol, 2,2'-iminobis- - Inhalable fraction and vapor.</td>
<td>TWA</td>
<td>1 mg/m³</td>
<td>US. ACGIH Threshold Limit Values (2009)</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. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use.

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):**

<table>
<thead>
<tr>
<th>Substance</th>
<th>LD 50 (Rat)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanone</td>
<td>5,800 mg/kg</td>
</tr>
<tr>
<td>Benzoic acid, 2-hydroxy-, phenylmethyl ester</td>
<td>3,031 mg/kg</td>
</tr>
<tr>
<td>Cyclopenta[g]-2-benzopyran, 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethyl-</td>
<td>&gt; 4,640 mg/kg</td>
</tr>
<tr>
<td>Benzenepropanal, 4-(1,1-dimethylethyl)-a-methyl-</td>
<td>1,390 mg/kg</td>
</tr>
<tr>
<td>Ethanone, 1-[(3R,3aR,7R,8aS)-2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl]-</td>
<td>&gt; 2,000 mg/kg</td>
</tr>
<tr>
<td>3-Buten-2-one, 3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-</td>
<td>&gt; 5,000 mg/kg</td>
</tr>
</tbody>
</table>

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

**Specified substance(s):**

<table>
<thead>
<tr>
<th>Substance</th>
<th>LD 50 (Rabbit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanone</td>
<td>&gt; 7,426 mg/kg</td>
</tr>
<tr>
<td>Benzoic acid, 2-hydroxy-, phenylmethyl ester</td>
<td>&gt; 2,000 mg/kg</td>
</tr>
<tr>
<td>Cyclopenta[g]-2-benzopyran, 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethyl-</td>
<td>&gt; 10,000 mg/kg</td>
</tr>
<tr>
<td>Benzenepropanal, 4-(1,1-dimethylethyl)-a-methyl-</td>
<td>&gt; 2,000 mg/kg</td>
</tr>
<tr>
<td>Ethanone, 1-[(3R,3aR,7R,8aS)-2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl]-</td>
<td>&gt; 2,000 mg/kg</td>
</tr>
<tr>
<td>3-Buten-2-one, 3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-</td>
<td>&gt; 5,000 mg/kg</td>
</tr>
</tbody>
</table>

**Inhalation Product:** Not classified for acute toxicity based on available data.
**Specified substance(s):**
2-Propanone  
LC 50 (Rat): 50.1 mg/l  
LC 50: > 5 mg/l

Propane  
LC 50: > 100 mg/l  
LC 50: > 100 mg/l

Butane  
LC 50: > 100 mg/l  
LC 50: > 100 mg/l

Cyclopenta[g]-2-benzopyran, 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethyl-  
LC 50: > 5 mg/l  
LC 50: > 20 mg/l

Ethanone, 1-[(3R,3aR,7R,8aS)-2,3,4,7,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl]-  
LC (Rat): > 15,860 mg/l

3-Buten-2-one, 3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-  
LC 50: > 5 mg/l  
LC 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

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

Benzoic acid, 2-hydroxy-, phenylmethyl ester  
NOAEL (Rat(Female), Oral, 102 - 131 d): 360 mg/kg Oral Read-across from supporting substance (structural analogue or surrogate), Key study

Cyclopenta[g]-2-benzopyran, 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethyl-  
NOAEL (Rat(Female, Male), Oral, 30 d): 5 mg/kg Oral Other, Key study

Benzenepropanal, 4-(1,1-dimethylethyl)-a-methyl-  
NOAEL (Rat(Female, Male), Oral, 90 d): 25 mg/kg Oral Experimental result, Key study

NOAEL (Rat(Male), Dermal, 5 d): 1,000 mg/kg Dermal Other, Key study

NOAEL (Rat(Female, Male), Oral, 30 d): 25 mg/kg Oral Other, Key study
Ethanone, 1-
[(3R,3aR,7R,8aS)-
2,3,4,7,8,8a-hexahydro-
3,6,8,8-tetramethyl-1H-
3a,7-methanoazulen-5-
yl]-

NOAEL (Rat(Female, Male), Dermal, 13 Weeks): 300 mg/kg Dermal
Experimental result, Key study

Skin Corrosion/Irritation
Product:
No data available.

Specified substance(s):
2-Propanone
in vivo (Rabbit): Not irritant Experimental result, Supporting study

Benzoic acid, 2-
hydroxy-, phenylmethyl ester
in vivo (Rabbit): Not irritant Experimental result, Weight of Evidence study

Cyclopenta[g]-2-
benzopyran,
1,3,4,6,7,8-hexahydro-
4,6,6,7,8,8-hexamethyl-

Benzenepropanal, 4-
(1,1-dimethylethyl)-a-
methyl-

Ethanone, 1-
[(3R,3aR,7R,8aS)-
2,3,4,7,8,8a-hexahydro-
3,6,8,8-tetramethyl-1H-
3a,7-methanoazulen-5-
yl]-

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

Cyclopenta[g]-2-
benzopyran,
1,3,4,6,7,8-hexahydro-
4,6,6,7,8,8-hexamethyl-

Benzenepropanal, 4-
(1,1-dimethylethyl)-a-
methyl-

Skin sensitization; in vivo (Guinea pig): Sensitising

Carcinogenicity
SDS_US - RE1000004322
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.

Specified substance(s):
Benzenepropanal, 4-(1,1-dimethylethyl)-a-methyl-
Suspected of damaging fertility or the unborn child.

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
Propane
Butane
Benzoic acid, 2-hydroxy-, phenylmethyl ester
Cyclopenta[g]-2-benzopyran, 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethyl-
Benzenepropanal, 4-(1,1-dimethylethyl)-a-methyl-
Ethanone, 1-[(3R,3aR,7R,8aS)-2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl]-

Aquatic Invertebrates
Product:
No data available.

Specified substance(s):
2-Propanone
Butane
Benzoic acid, 2-hydroxy-, phenylmethyl ester
Cyclopenta[g]-2-benzopyran, 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethyl-
Benzenepropanal, 4-(1,1-dimethylethyl)-a-methyl-
Ethanone, 1-[(3R,3aR,7R,8aS)-2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl]-

Chronic hazards to the aquatic environment:
Fish
Product: NOEC : Estimated < 1 mg/l
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

Cyclopenta[g]-2-benzopyran, 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethyl-
NOAEL (Daphnia magna): 111 µg/l Experimental result, Key study
EC 50 (Daphnia magna): 282 µg/l Experimental result, Key study

Ethanone, 1-
[(3R,3aR,7R,8aS)-2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-y]-
LOAEL (Daphnia magna): 0.23 mg/l Experimental result, Key study
EC 50 (Daphnia magna): 0.32 mg/l Experimental result, Key study
NOAEL (Daphnia magna): 0.087 mg/l Experimental result, Key study
EC 50 (Daphnia magna): 0.29 mg/l Experimental result, Key study

Toxicity to Aquatic Plants
Product: No data available.

Persistence and Degradability

Biodegradation
Product: 60 % (28 d) Readily biodegradable

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

Benzoic acid, 2-hydroxy-, phenylmethyl ester
Bioconcentration Factor (BCF): 311 Aquatic sediment QSAR, Supporting study

Cyclopenta[g]-2-benzopyran, 1,3,4,6,7,8-hexahydro-4,6,6,7,8-hexamethyl-
Lepomis macrochirus, Bioconcentration Factor (BCF): 1,550 Aquatic sediment Experimental result, Key study

Benzenepropanal, 4-(1,1-dimethylethyl)-a-methyl-
Bioconcentration Factor (BCF): 274.3 Aquatic sediment Estimated by calculation, Key study
Ethanone, 1-
[3R,3aR,7R,8aS]-
2,3,4,7,8,8a-hexahydro-
3,6,8,8-tetramethyl-1H-
3a,7-methanoazulen-5-yl]-

Bioconcentration Factor (BCF): 526.35 Aquatic sediment Estimated by calculation, Key study

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

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.
Benzoic acid, 2-hydroxy-, phenylmethyl ester No data available.
Cyclopenta[g]-2-
benzopyran, 1,3,4,6,7,8-
hexahydro-4,6,6,7,8,8-
hexamethyl-
Benzenepropanal, 4-(1,1-
dimethylethyl)-a-methyl-
Ethanone, 1-
[3R,3aR,7R,8aS]-
2,3,4,7,8,8a-hexahydro-
3,6,8,8-tetramethyl-1H-
3a,7-methanoazulen-5-yl]-
3-Buten-2-one, 3-methyl-4-
(2,6,6-trimethyl-2-
cyclohexen-1-yl)-

No data available.

Other adverse effects: Harmful 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): | 2.1 |
| Class: | - |
| 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): | 2 |
| Class: | - |
| Label(s): | - |
| EmS No.: | - |
| Packing Group: | - |
| 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): | 2.1 |
| Class: | - |
| Label(s): | - |
| Packing Group: | - |
| 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
- Toxic to reproduction
- Specific Target Organ Toxicity - Single Exposure

SARA 302 Extremely Hazardous Substance

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Reportable quantity</th>
<th>Threshold Planning Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanone</td>
<td></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>Benzoic acid, 2-hydroxy-, phenylmethyl ester</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Cyclopenta[g]-2-benzopyran, 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethyl-</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Benzenepropanal, 4-(1,1-dimethylethyl)-a-methyl-</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Proprietary Fragrance</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Ethanone, 1-[(3R,3aR,7R,8aS)-2,3,4,7,8,8a-hexahydro-3,6,8-tetramethyl-1H-3a,7-methanoazulen-5-yl]-</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>3-Buten-2-one, 3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Ethanol, 2,2',2''-nitrilotris-</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Ethanol, 2,2'-iminobis-</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

<table>
<thead>
<tr>
<th>Chemical Identity</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanone</td>
</tr>
<tr>
<td>Propane</td>
</tr>
<tr>
<td>Butane</td>
</tr>
</tbody>
</table>

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

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

<table>
<thead>
<tr>
<th>Chemical Identity</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanone</td>
</tr>
<tr>
<td>Propane</td>
</tr>
<tr>
<td>Butane</td>
</tr>
</tbody>
</table>

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

Stockholm convention
2-Propanone

Rotterdam convention
2-Propanone

Kyoto protocol

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: 09/13/2019

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.