SAFETY DATA SHEET

1. Identification

Product identifier: BABY POWDER METERED AIR FRESHENER

Other means of identification
SDS number: RE1000004556

Recommended restrictions
Product use: Air Freshener
Restrictions on use: Not known.

Manufacturer/Importer/Distributor Information

Manufacturer

Company Name: CLAIRE MANUFACTURING COMPANY
Address: 1000 Integrarom 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.

Label Elements

Hazard Symbol:

Signal Word: Danger

Hazard Statement: Extremely flammable aerosol.
Causes serious eye irritation.
May cause drowsiness or dizziness.
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.

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>1,3-Benzodioxole-5-carboxaldehyde</td>
<td>120-57-0</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>2,6-Octadien-1-ol, 3,7-dimethyl-, (2E)-</td>
<td>106-24-1</td>
<td>0.1 - &lt;1%</td>
</tr>
<tr>
<td>2-Propenoic acid, 3-phenyl-, methyl ester</td>
<td>103-26-4</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.
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:  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:  Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.
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.

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>
</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 1910.1000) (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>
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<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>Chemical Identity</td>
<td>Exposure Limit Values</td>
<td>Source</td>
<td></td>
</tr>
<tr>
<td>-------------------</td>
<td>-----------------------</td>
<td>--------</td>
<td></td>
</tr>
<tr>
<td>Acetic acid, phenylmethyl ester</td>
<td>TWA: 10 ppm (US. ACGIH Threshold Limit Values (2008))</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>TWA PEL: 61 mg/m3 (US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09/2006))</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ST ESL: 100 ppb (US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11/2016))</td>
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</tr>
<tr>
<td></td>
<td>AN ESL: 10 ppb (US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11/2016))</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ST ESL: 610 µg/m3 (US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11/2016))</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AN ESL: 61 µg/m3 (US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11/2016))</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethanol, 2,2',2''-nitrilotris-</td>
<td>TWA PEL: 5 mg/m3 (US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09/2006))</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ST ESL: 50 µg/m3 (US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11/2016))</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>TWA: 5 mg/m3 (US. ACGIH Threshold Limit Values (2008))</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethanol, 2,2'-iminobis-</td>
<td>REL: 3 ppm (US. NIOSH: Pocket Guide to Chemical Hazards (2005))</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AN ESL: 7 µg/m3 (US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11/2016))</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>TWA: 3 ppm (US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989))</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>TWA PEL: 0.46 ppm (US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09/2006))</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>ST ESL: 97 µg/m3 (US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11/2016))</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethanol, 2,2'-iminobis-; Inhalable fraction and vapor.</td>
<td>TWA: 1 mg/m3 (US. ACGIH Threshold Limit Values (2009))</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethanol, 2,2'-iminobis-</td>
<td>TWA: 3 ppm (US. 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: 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
- 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.
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: 44,571.64 mg/kg

**Dermal**  
Product: ATEmix: 44,571.64 mg/kg

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

Specified substance(s):
<table>
<thead>
<tr>
<th>Substance</th>
<th>LC 50 (Rat):</th>
<th>LC 50 (Mouse):</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanone</td>
<td>50.1 mg/l</td>
<td>&gt; 5 mg/l</td>
</tr>
<tr>
<td>Propane</td>
<td>1,237 mg/l</td>
<td></td>
</tr>
<tr>
<td>Butane</td>
<td>1,237 mg/l</td>
<td></td>
</tr>
<tr>
<td>1,3-Benzodioxole-5-carboxaldehyde</td>
<td>&gt; 5 mg/l</td>
<td>&gt; 20 mg/l</td>
</tr>
<tr>
<td>2H-1-Benzopyran-2-one</td>
<td>&gt; 5 mg/l</td>
<td>&gt; 20 mg/l</td>
</tr>
<tr>
<td>2,6-Octadien-1-ol, 3,7-dimethyl-, (2E)-</td>
<td>&gt; 20 mg/l</td>
<td>&gt; 5 mg/l</td>
</tr>
<tr>
<td>2-Propenoic acid, 3-phenyl-, methyl ester</td>
<td>&gt; 5 mg/l</td>
<td>&gt; 20 mg/l</td>
</tr>
<tr>
<td>Acetic acid, phenylmethyl ester</td>
<td>LC 0 (Rat): &gt; 0.766 mg/l</td>
<td></td>
</tr>
</tbody>
</table>

**Repeated dose toxicity**

**Product:** No data available.

**Specified substance(s):**

<table>
<thead>
<tr>
<th>Substance</th>
<th>NOAEL (Rat(Male), Oral, 13 Weeks): 10,000 ppm(m) Oral Experimental result, Key study</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanone</td>
<td>NOAEL (Rat(Female, Male), Inhalation, &gt;= 28 d): 4,000 ppm(m) Inhalation Experimental result, Key study</td>
</tr>
<tr>
<td>Butane</td>
<td>NOAEL (Rat(Female, Male), Inhalation, &gt;= 28 d): 4,000 ppm(m) Inhalation Experimental result, Key study</td>
</tr>
<tr>
<td>1,3-Benzodioxole-5-carboxaldehyde</td>
<td>NOAEL (Rat(Female, Male), Oral, 12 Weeks): 17 mg/kg Oral Read-across from supporting substance (structural analogue or surrogate), Supporting study</td>
</tr>
<tr>
<td>2H-1-Benzopyran-2-one</td>
<td>NOAEL (Rat(Male), Inhalation, 104 - 110 Weeks): 42 mg/kg Inhalation Experimental result, Key study</td>
</tr>
<tr>
<td>2,6-Octadien-1-ol, 3,7-dimethyl-, (2E)-</td>
<td>NOAEL (Rat(Female, Male), Oral, 112 - 196 d): &gt; 550 mg/kg Oral Experimental result, Key study</td>
</tr>
<tr>
<td>2-Propenoic acid, 3-phenyl-, methyl ester</td>
<td>NOAEL (Rat(Female, Male), Oral, 4 - 7 Weeks): 300 mg/kg Oral Experimental result, Key study</td>
</tr>
<tr>
<td>Acetic acid, phenylmethyl ester</td>
<td>NOAEL (Rat(Male), Oral, 13 Weeks): 900 mg/kg Oral Experimental result, Supporting study</td>
</tr>
</tbody>
</table>

**Skin Corrosion/Irritation**
Product: No data available.

**Specified substance(s):**
- 2-Propanone: in vivo (Rabbit): Not irritant Experimental result, Supporting study
- 1,3-Benzodioxole-5-carboxaldehyde: in vivo (Guinea pig): Not irritant Experimental result, Weight of Evidence study
- 2H-1-Benzopyran-2-one: in vivo (Rabbit): Not irritant Experimental result, Key study
- 2,6-Octadien-1-ol, 3,7-dimethyl- (2E)-: in vivo (Rabbit): Irritating Experimental result, Key study
- 2-Propenoic acid, 3-phenyl-, methyl ester: 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

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):**
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 (Onchorhynchus 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
1,3-Benzodioxole-5-carboxaldehyde
LC 50 (Cyprinus carpio, 96 h): 2.5 mg/l Experimental result, Key study
NOAEL (Cyprinus carpio, 96 h): 1.6 mg/l Experimental result, Key study
2H-1-Benzopyran-2-one
LC 50 (Guppy (Poecilia reticulata), 96 h): 32 - 100 mg/l Mortality
2,6-Octadien-1-ol, 3,7-dimethyl-, (2E)-
LC 0 (Danio rerio, 96 h): 10 mg/l Experimental result, Key study
LC 50 (Danio rerio, 96 h): +/- 22 mg/l Experimental result, Key study
2-Propenoic acid, 3-phenyl-, methyl ester
LC 50 (Danio rerio, 96 h): 2.76 mg/l Experimental result, Key study
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
1,3-Benzodioxole-5-carboxaldehyde EC 50 (Daphnia magna, 48 h): 52 mg/l Experimental result, Key study
NOAEL (Daphnia magna, 48 h): 22 mg/l Experimental result, Key study
2H-1-Benzopyran-2-one LC 50 (Water flea (Daphnia magna), 48 h): 10 - 18 mg/l Mortality
2,6-Octadien-1-ol, 3,7-dimethyl-, (2E)- EC 50 (Daphnia magna, 48 h): 10.8 mg/l Experimental result, Key study
2-Propenoic acid, 3-phenyl-, methyl ester LOAEL (Daphnia magna, 48 h): 25 mg/l Experimental result, Key study
EC 50 (Daphnia magna, 48 h): 24 mg/l Experimental result, Key study
NOAEL (Daphnia magna, 48 h): 12.5 mg/l Experimental result, Key study
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
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
1,3-Benzodioxole-5-carboxaldehyde 82 % Detected in water. Experimental result, Key study
<table>
<thead>
<tr>
<th>Specified substance(s):</th>
<th>Bioconcentration Factor (BCF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanone</td>
<td>Haddock, adult, Bioconcentration Factor (BCF): 0.69 Aquatic sediment</td>
</tr>
<tr>
<td></td>
<td>Experimental result, Not specified</td>
</tr>
<tr>
<td>2H-1-Benzopyran-2-one</td>
<td>Green algae (Chlorella fusca vacuolata), Bioconcentration Factor (BCF): 42 (Static)</td>
</tr>
<tr>
<td>Acetic acid, phenylmethyl ester</td>
<td>Bioconcentration Factor (BCF): 8 Aquatic sediment Estimated by calculation, Key study</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Specified substance(s):</th>
<th>Partition Coefficient n-octanol / water (log Kow)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,6-Octadien-1-ol, 3,7-dimethyl-, (2E)-</td>
<td>Log Kow: 2.6 25 °C</td>
</tr>
<tr>
<td>2-Propenoic acid, 3-phenyl-, methyl ester</td>
<td>Log Kow: 2.68 25 °C</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Specified substance(s):</th>
<th>Mobility in soil:</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanone</td>
<td>No data available.</td>
</tr>
<tr>
<td>Propane</td>
<td>No data available.</td>
</tr>
<tr>
<td>Butane</td>
<td>No data available.</td>
</tr>
<tr>
<td>1,3-Benzodioxole-5-carboxaldehyde</td>
<td>No data available.</td>
</tr>
<tr>
<td>2H-1-Benzopyran-2-one</td>
<td>No data available.</td>
</tr>
<tr>
<td>2,6-Octadien-1-ol, 3,7-dimethyl-, (2E)-</td>
<td>No data available.</td>
</tr>
<tr>
<td>2-Propenoic acid, 3-phenyl-, methyl ester</td>
<td>No data available.</td>
</tr>
<tr>
<td>Acetic acid, phenylmethyl ester</td>
<td>No data available.</td>
</tr>
</tbody>
</table>

| Other adverse effects:           | No data available.                                       |

| BOD/COD Ratio                    | No data available.                                       |

| Product:                         | No data available.                                       |

| Product:                         | No data available.                                       |

| Known or predicted distribution to environmental compartments | No data available.                                       |

| Other adverse effects:           | No data available.                                       |
13. Disposal considerations

Disposal instructions: Wash before disposal. Dispose to controlled facilities.

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.: –
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):
  Class: 2.1
  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'-imino-</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

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>Threshold Planning</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'-imino-</td>
<td>lbs. 100</td>
</tr>
</tbody>
</table>

SARA 311/312 Hazardous Chemical

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Threshold Planning</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>1,3-Benzodioxole-5-</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>carboxaldehyde</td>
<td></td>
</tr>
<tr>
<td>2H-1-Benzopyran-2-one</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>2,6-Octadien-1-ol, 3,7-</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>dimethyl-, (2E)-</td>
<td></td>
</tr>
<tr>
<td>2-Propenoic acid, 3-</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>phenyl-, methyl ester</td>
<td></td>
</tr>
<tr>
<td>Acetic acid, phenylmethyl</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>ester</td>
<td></td>
</tr>
<tr>
<td>Ethanol, 2,2',2''-nitrilotris-</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Ethanol, 2,2'-imino-</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.

SDS_US - RE1000004556
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: 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: 08/05/2019
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.