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# SAFETY DATA SHEET

# 1. Identification

Product identifier: CL192 RED DELICIOUS APPLE DRY AIR FRESHENER

Other means of identification

**SDS number:** RE1000016142

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 1-630-543-7600

Telephone: 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 - Category 3<sup>1</sup>

Single Exposure

#### **Target Organs**

Narcotic effect.

# **Environmental Hazards**

Acute hazards to the aquatic Category 3 environment



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#### **Label Elements**

#### **Hazard Symbol:**



Signal Word: Danger

**Hazard Statement:** Extremely flammable aerosol.

Causes serious eye irritation.

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. 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.



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# 3. Composition/information on ingredients

#### **Mixtures**

| Chemical Identity   | CAS number | Content in percent (%)* |
|---|------------|-------------------------|
| 2-Propanone   | 67-64-1    | 50 - <100%              |
| Propane   | 74-98-6    | 10 - <20%               |
| Butane  | 106-97-8   | 10 - <20%               |
| Cyclohexanol, 2-(1,1-dimethylethyl)-, 1-acetate                           | 88-41-5    | 1 - <5%                 |
| Cyclopenta[g]-2-benzopyran, 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethyl- | 1222-05-5  | 0.1 - <1%               |
| Octanal, 2-(phenylmethylene)-   | 101-86-0   | 0.1 - <1%               |
| Heptanal, 2-<br>(phenylmethylene)-  | 122-40-7   | 0.1 - <1%               |
| Proprietary   |            | 0.1 - <1%               |
| Ethanol, 2,2',2"-nitrilotris-   | 102-71-6   | 0 - <0.1%               |
| Ethanol, 2,2'-iminobis-   | 111-42-2   | 0 - <0.1%               |

<sup>\*</sup> 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.



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#### 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

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



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# **Control Parameters**

| Chemical Identity | Туре    | Exposure Lir | mit Values      | Source   |
|-------------------|---------|--------------|-----------------|--|
| 2-Propanone       | STEL    | 1,000 ppm    | 2,400 mg/m3     | US. OSHA Table Z-1-A (29 CFR 1910.1000)<br>(1989)  |
|                   | STEL    | 750 ppm      | 1,780 mg/m3     | US. California Code of Regulations, Title 8,<br>Section 5155. Airborne Contaminants (09<br>2006) |
|                   | PEL     | 1,000 ppm    | 2,400 mg/m3     | US. OSHA Table Z-1 Limits for Air<br>Contaminants (29 CFR 1910.1000) (02 2006)                   |
|                   | AN ESL  |              | 2,000 ppb       | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)        |
|                   | TWA     | 250 ppm      |                 | US. ACGIH Threshold Limit Values (03 2015)   |
|                   | TWA     | 750 ppm      | 1,800 mg/m3     | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)   |
|                   | Ceiling | 3,000 ppm    |                 | US. California Code of Regulations, Title 8,<br>Section 5155. Airborne Contaminants (09<br>2006) |
|                   | STEL    | 500 ppm      |                 | US. ÁCGIH Threshold Limit Values (03 2015)   |
|                   | TWA PEL | 500 ppm      | 1,200 mg/m3     | US. California Code of Regulations, Title 8,<br>Section 5155. Airborne Contaminants (09<br>2006) |
|                   | ST ESL  |              | 7,800 µg/m3     | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)        |
|                   | AN ESL  |              | 4,800 μg/m3     | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)        |
|                   | TWA     | 750 ppm      | 1,800 mg/m3     | US. Tennessee. OELs. Occupational Exposur<br>Limits, Table Z1A (06 2008)                         |
|                   | ST ESL  |              | 3,300 ppb       | US. Texas. Effects Screening Levels (Texas<br>Commission on Environmental Quality) (11<br>2016)  |
|                   | REL     | 250 ppm      | 590 mg/m3       | US. NIOSH: Pocket Guide to Chemical Hazards (2005)   |
|                   | STEL    | 1,000 ppm    |                 | US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)                           |
| Propane           | REL     | 1,000 ppm    | 1,800 mg/m3     | US. NIOSH: Pocket Guide to Chemical Hazards (2005)   |
|                   | PEL     | 1,000 ppm    | 1,800 mg/m3     | US. OSHA Table Z-1 Limits for Air<br>Contaminants (29 CFR 1910.1000) (02 2006)                   |
|                   | TWA PEL | 1,000 ppm    | 1,800 mg/m3     | US. California Code of Regulations, Title 8,<br>Section 5155. Airborne Contaminants (09<br>2006) |
|                   | TWA     | 1,000 ppm    | 1,800 mg/m3     | US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)                           |
|                   | TWA     |              | 1,800 mg/m3     | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)   |
| Butane            | REL     | 800 ppm      | 1,900 mg/m3     | US. NIOSH: Pocket Guide to Chemical Hazards (2005)   |
|                   | TWA     | 800 ppm      | 1,900 mg/m3     | US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)                           |
|                   | STEL    | 1,000 ppm    |                 | US. ACGIH Threshold Limit Values (03 2018)   |
|                   | TWA     | 800 ppm      |                 | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)   |
|                   | AN ESL  |              | 3,000 ppb       | US. Texas. Effects Screening Levels (Texas<br>Commission on Environmental Quality) (11<br>2016)  |
|                   | AN ESL  |              | 7,100 µg/m3     | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)        |
|                   | TWA PEL | 800 ppm      | 1,900 mg/m3     | US. California Code of Regulations, Title 8,<br>Section 5155. Airborne Contaminants (09<br>2006) |
|                   | ST ESL  |              | 66,000<br>µg/m3 | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11              |



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|  |         |          |            | 2016)  |
|--|---------|----------|------------|--|
|  | ST ESL  |          | 28,000 ppb | US. Texas. Effects Screening Levels (Texas<br>Commission on Environmental Quality) (11<br>2016)  |
| Ethanol, 2,2',2"-nitrilotris-                        | TWA PEL |          | 5 mg/m3    | US. California Code of Regulations, Title 8,<br>Section 5155. Airborne Contaminants (09<br>2006) |
|  | ST ESL  |          | 50 μg/m3   | US. Texas. Effects Screening Levels (Texas<br>Commission on Environmental Quality) (11<br>2016)  |
|  | TWA     |          | 5 mg/m3    | US. ACGIH Threshold Limit Values (2008)  |
|  | AN ESL  |          | 5 μg/m3    | US. Texas. Effects Screening Levels (Texas<br>Commission on Environmental Quality) (11<br>2016)  |
| Ethanol, 2,2'-iminobis-                              | REL     | 3 ppm    | 15 mg/m3   | US. NIOSH: Pocket Guide to Chemical Hazards (2005)   |
|  | AN ESL  |          | 7 μg/m3    | US. Texas. Effects Screening Levels (Texas<br>Commission on Environmental Quality) (11<br>2016)  |
|  | TWA     | 3 ppm    | 15 mg/m3   | US. OSHA Table Z-1-A (29 CFR 1910.1000)<br>(1989)  |
|  | TWA PEL | 0.46 ppm | 2 mg/m3    | US. California Code of Regulations, Title 8,<br>Section 5155. Airborne Contaminants (09<br>2006) |
|  | ST ESL  |          | 97 μg/m3   | US. Texas. Effects Screening Levels (Texas<br>Commission on Environmental Quality) (11<br>2016)  |
| Ethanol, 2,2'-iminobis Inhalable fraction and vapor. | TWA     |          | 1 mg/m3    | US. ACGIH Threshold Limit Values (2009)  |
| Ethanol, 2,2'-iminobis-                              | TWA     | 3 ppm    | 15 mg/m3   | US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)                           |

**Biological Limit Values** 

| Chemical Identity                                   | Exposure Limit Values | Source              |
|---|-----------------------|---------------------|
| 2-Propanone (acetone: Sampling time: End of shift.) | 25 mg/l (Urine)       | ACGIH BEL (03 2015) |

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.



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**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:
Color:
No data available.
Odor:
No data available.
Initial boiling point/freezing point:
No data available.
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 (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

No data available.

No data available.

No data available.

No data available.

Vapor pressure: 4,136.8544 - 4,826.3301 hPa (20 °C)

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

Solubility(ies)

Solubility in water:

Solubility (other):

No data available.

No data available.

No data available.

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.

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**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

Cyclohexanol, 2-(1,1-

dimethylethyl)-, 1-acetate

LD 50: > 2,000 mg/kg

Cyclopenta[g]-2-

benzopyran, 1,3,4,6,7,8-

hexahydro-4,6,6,7,8,8-

hexamethyl-

LD 50 (Rat): > 4,640 mg/kg

Octanal, 2-

(phenylmethylene)-

LD 50: > 2,000 mg/kg

Proprietary LD 50: > 2,000 mg/kg

Ethanol, 2,2',2"-nitrilotris-LD 50 (Rat): 6,400 mg/kg

Ethanol, 2,2'-iminobis-LD 50 (Rat): 1,100 mg/kg

**Dermal** 



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

LD 50 (Rat): > 10,000 mg/kg

Specified substance(s):

2-Propanone LD 50 (Rabbit): > 7,426 mg/kg

Cyclohexanol, 2-(1,1-LC 50: > 2,000 mg/kg

dimethylethyl)-, 1-acetate

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

hexamethyl-

Octanal, 2-(phenylmethylene)-

LD 50: > 2,000 mg/kg

**Proprietary** LD 50: > 2,000 mg/kg

Ethanol, 2,2',2"-nitrilotris-LD 50 (Rabbit): > 2,000 mg/kg

Ethanol, 2,2'-iminobis-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

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

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

Cyclohexanol, 2-(1,1-LC 50: > 5 mg/l

dimethylethyl)-, 1-acetate LC 50: > 20 mg/l

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

(phenylmethylene)-

hexamethyl-

Octanal, 2-LC 50: > 20 mg/l

Proprietary LC 50: > 5 mg/l LC 50: > 20 mg/l

Ethanol, 2,2',2"-nitrilotris-LC 0 (Rat): 1.8 mg/m3

LC 50: > 5 mg/l

LC 50: > 20 mg/l



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Ethanol, 2,2'-iminobis- LC 0 (Rat): 3.35 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

LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation

Experimental result, Key study NOAEL (Rat(Female, Male), Oral, 13 Weeks): 150 mg/kg Oral Experimental

Cyclopenta[g]-2-

benzopyran, 1,3,4,6,7,8-

hexahydro-4,6,6,7,8,8-

hexamethyl-

Ethanol, 2,2',2"-nitrilotris- NOAEL (Rat(Female, Male), Oral, 91 d): 1,000 mg/kg Oral Experimental

result, Key study

result, Key study

NOAEL (Rat(Female, Male), Inhalation): 0.5 mg/l Inhalation Experimental

result, Key study

NOAEL (Rat(Male), Dermal, 90 d): 125 mg/kg Dermal Experimental result,

Key study

NOAEL (Rat(Female), Dermal, 90 d): 250 mg/kg Dermal Experimental

result, Key study

Ethanol, 2,2'-iminobis- LOAEL (Rat(Female), Oral, 13 Weeks): 14 mg/kg Oral Experimental result,

Key study

LOAEL (Rat(Female, Male), Dermal, 13 Weeks): 32 mg/kg Dermal

Experimental result, Key study

NOAEL (Rat(Female, Male), Inhalation): 3 mg/m3 Inhalation 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

Cyclopenta[g]-2-benzopyran,

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylin vivo (Rabbit): Irritating Experimental result, Key study

4,0,0,1,0,0 Hexamen

Ethanol, 2,2',2"-nitrilotris-

in vivo (Rabbit): Not irritant Experimental result, Key study

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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 Skin sensitization:, in vivo (Guinea pig): Non sensitising

benzopyran,

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethyl-

Ethanol, 2,2',2"- Skin sensitization:, in vivo (Guinea pig): Non sensitising

nitrilotris-

Ethanol, 2,2'-iminobis- Skin sensitization:, in vivo (Guinea pig): Non 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.

Specified substance(s):

Ethanol, 2,2'-iminobis- Category 2



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**Target Organs** 

Specific Target Organ Toxicity - Single Exposure: Narcotic effect.

**Aspiration Hazard** 

**Product:** No data available.

Specified substance(s):

Proprietary 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

Cyclohexanol, 2-(1,1-

dimethylethyl)-, 1-acetate

LC 50 (Fish, 96 h): < 10 mg/l

Cyclopenta[g]-2-

benzopyran, 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-

hexamethyl-

LC 50 (Lepomis macrochirus, 96 h): 1.36 mg/l Experimental result, Key

study

Octanal, 2-

(phenylmethylene)-

LC 50 (96 h): < 1 mg/l Review

Ethanol, 2,2',2"-nitrilotris- LC 50 (Pimephales promelas, 96 h): 11,800 mg/l Experimental result, Key

study

Ethanol, 2,2'-iminobis- LC 50 (Pimephales promelas, 96 h): 1,370 mg/l Experimental result, 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

Cyclopenta[g]-2- EC 50 (Daphnia magna, 48 h): 0.885 mg/l Experimental result, Not specified

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benzopyran, 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethyl-

Ethanol, 2,2',2"-nitrilotris- EC 50 (Ceriodaphnia dubia, 48 h): 609.88 mg/l Experimental result, Key

study

Ethanol, 2,2'-iminobis- EC 50 (Daphnia magna, 48 h): 55 mg/l Experimental result, Supporting

study

EC 50 (Ceriodaphnia dubia, 48 h): 30.1 mg/l Experimental result, Key study

Chronic hazards to the aquatic environment:

Fish

**Product:** No data available.

Specified substance(s):

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

hexahydro-4,6,6,7,8,8-

hexamethyl-

LC 50 (Lepomis macrochirus): 0.452 mg/l Experimental result, Key study LOAEL (Pimephales promelas): 0.14 mg/l Experimental result, Key study

Octanal, 2-

(phenylmethylene)-

NOEC (21 d): < 10 mg/l Review

Ethanol, 2,2'-iminobis- NOAEL (Various): > 1 mg/l Estimated by calculation, Supporting 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

Cyclopenta[g]-2-

benzopyran, 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-

hexamethyl-

NOAEL (Daphnia magna): 111  $\mu$ g/I Experimental result, Key study EC 50 (Daphnia magna): 282  $\mu$ g/I Experimental result, Key study

Ethanol, 2,2',2"-nitrilotris- NOAEL (Daphnia magna): 16 mg/l Experimental result, Key study

NOAEL (Daphnia magna): 125 mg/l Experimental result, Key study NOAEL (Daphnia magna): 250 mg/l Experimental result, Key study

Ethanol, 2,2'-iminobis- NOAEL (Daphnia magna): 0.78 mg/l Experimental result, 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



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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

Cyclohexanol, 2-(1,1-

dimethylethyl)-, 1-acetate

< 70 % (10 d, Assessment)

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

hexahydro-4,6,6,7,8,8-

hexamethyl-

60 % (28 d) Sediment Experimental result, Key study

Ethanol, 2,2',2"-nitrilotris-100 % (3 d) Sediment Experimental result, Key study

Ethanol, 2,2'-iminobis-93 % (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

Cyclopenta[g]-2-

benzopyran, 1,3,4,6,7,8hexahydro-4,6,6,7,8,8-

hexamethyl-

Lepomis macrochirus, Bioconcentration Factor (BCF): 1,550 Aquatic

sediment Experimental result, Key study

Ethanol, 2,2',2"-nitrilotris-Cyprinus carpio, Bioconcentration Factor (BCF): < 3.9 Aquatic sediment

Experimental result, Key study

Bioconcentration Factor (BCF): 9.2 Aquatic sediment Estimated by Ethanol, 2,2'-iminobis-

calculation, Weight of Evidence study

#### Partition Coefficient n-octanol / water (log Kow)

**Product:** No data available.

Specified substance(s):

Ethanol, 2,2',2"-nitrilotris-Log Kow: -1.75 - -1.32 No Estimated by calculation, Weight of Evidence

study

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments



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2-Propanone No data available. Propane No data available. Butane No data available. Cyclohexanol, 2-(1,1- No data available.

dimethylethyl)-, 1-acetate

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

hexahydro-4,6,6,7,8,8-

hexamethyl-Octanal, 2-

(chanal, 2-

(phenylmethylene)-Heptanal, 2-

(phenylmethylene)-

Proprietary

Ethanol, 2,2',2"-nitrilotris-Ethanol, 2,2'-iminobis-

No data available.

No data available.

No data available.

No data available. No data available. No data available.

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.:

Packing Group: -

Environmental Hazards: No Marine Pollutant No



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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**

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):

Chemical IdentityReportable quantity2-Propanonelbs. 5000Propanelbs. 100

Butane lbs. 100 Ethanol, 2,2'-iminobis- lbs. 100

#### 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

Reportable

<u>Chemical Identity</u> <u>quantity</u> <u>Threshold Planning Quantity</u>

2-Propanone

# **SARA 304 Emergency Release Notification**

Chemical Identity Reportable quantity

2-Propanone lbs. 5000 Propane lbs. 100 Butane lbs. 100

Propanoic acid, 2-methyl-, 2-phenoxyethyl ester

Ethanol, 2,2'-iminobis- lbs. 100



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# SARA 311/312 Hazardous Chemical

| SARA 311/312 Hazardous C   | nemicai                     |
|----------------------------|-----------------------------|
| Chemical Identity          | Threshold Planning Quantity |
| 2-Propanone                | 10000 lbs                   |
| Propane                    | 10000 lbs                   |
| Butane                     | 10000 lbs                   |
| Cyclohexanol, 2-(1,1-      | 10000 lbs                   |
| dimethylethyl)-, 1-acetate |                             |
| Cyclopenta[g]-2-           | 10000 lbs                   |
| benzopyran, 1,3,4,6,7,8-   |                             |
| hexahydro-4,6,6,7,8,8-     |                             |
| hexamethyl-                |                             |
| Octanal, 2-                | 10000 lbs                   |
| (phenylmethylene)-         |                             |
| Heptanal, 2-               | 10000 lbs                   |
| (phenylmethylene)-         |                             |

Ethanol, 2,2',2"-nitrilotris-Ethanol, 2,2'-iminobis-

Proprietary

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

10000 lbs

10000 lbs

10000 lbs

# 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



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#### **Rotterdam convention**

Not applicable

#### **Kyoto protocol**

Not applicable

**Inventory Status:** 

Austrália 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:** 05/15/2019

**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.