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SAFETY DATA SHEET

1. Identification

Product identifier: Mega Mango Micro Metered Air Freshener

Other means of identification

SDS number: RE1000004799

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
Specific Target Organ Toxicity - Category 3¹

Single Exposure

Target Organs

1. Narcotic effect.

Environmental Hazards

Acute hazards to the aquatic Category 3 environment

Label Elements

Hazard Symbol:





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Signal Word: Danger

Hazard Statement: Extremely flammable aerosol.

Causes serious eye irritation.

May cause an allergic skin reaction. 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. 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 oC/122oF. 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



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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%
Oils, orange, sweet	8008-57-9	1 - <5%
Terpenes and Terpenoids, sweet orange-oil	68647-72-3	0.1 - <1%
Oils, orange, sweet, terpene- free	68606-94-0	0.1 - <1%
Cyclopenta[g]-2-benzopyran, 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethyl-	1222-05-5	0.1 - <1%
Ethanol, 2,2',2"-nitrilotris-	102-71-6	0 - <0.1%
Ethanol, 2,2'-iminobis-	111-42-2	0 - <0.1%

^{*} 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: 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.



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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. 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. Dike far ahead of larger spill for later recovery and

disposal.

Notification Procedures:

Dike for later disposal. 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. Avoid contact with eyes, skin, and clothing.

Conditions for safe storage, including any incompatibilities:

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Aerosol Level 3

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Туре	Exposure Limit Values		Source
2-Propanone	STEL	1,000 ppm	2,400 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	750 ppm	1,780 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09



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	<u> </u>			2006)
	PEL	1,000 ppm	2,400 mg/m3	US. OSHA Table Z-1 Limits for Air 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, Section 5155. Airborne Contaminants (09 2006)
	STEL	500 ppm		US. ACGIH Threshold Limit Values (03 2015)
	TWA PEL	500 ppm	1,200 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 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 Exposure Limits, Table Z1A (06 2008)
	ST ESL		3,300 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	REL	250 ppm	590 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	STEL	1,000 ppm	2,400 mg/m3	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 Contaminants (29 CFR 1910.1000) (02 2006)
	TWA PEL	1,000 ppm	1,800 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
	TWA	1,000 ppm	1,800 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	TWA	1,000 ppm	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	1,900 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	AN ESL		3,000 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 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, Section 5155. Airborne Contaminants (09 2006)
	ST ESL		66,000 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	ST ESL		28,000 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
Ethanol, 2,2',2"-nitrilotris-	TWA PEL		5 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
	ST ESL		50 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11



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

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: 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: Avoid contact with eyes. Observe good industrial hygiene practices. When

using do not smoke. Contaminated work clothing should not be allowed out

of the workplace. Avoid contact with skin.



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9. Physical and chemical properties

Appearance

Physical state: liquid

Form:
Color:
No data available.
Odor:
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 (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

No data available.

No data available.

No data available.

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:

Solubility (other):

Partition coefficient (n-octanol/water):

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.

Hazardous Decomposition

Products:

No data available.



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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

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

Terpenes and Terpenoids, sweet

orange-oil

LD 50: > 2,000 mg/kg

Oils, orange, sweet,

terpene-free

LD 50: > 2,000 mg/kg

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

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

hexamethyl-

LD 50 (Rat): > 4,640 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

LD 50 (Rat): 1,600 mg/kg LD 50 (Rat): 2,500 mg/kg LD 50 (Rat): 1,820 mg/kg



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Dermal

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

Specified substance(s):

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

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

Terpenes and Terpenoids, sweet

orange-oil

LD 50: > 2,000 mg/kg

Oils, orange, sweet, terpene-free

LD 50: > 2,000 mg/kg

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

hexamethyl-

LD 50 (Rat): > 10,000 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.



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Specified substance(s):

2-Propanone LC 50 (Rat): 50.1 mg/l

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

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

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

LC 50: > 20 mg/l

Terpenes and Terpenoids, sweet

orange-oil

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

Oils, orange, sweet,

terpene-free

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

Cyclopenta[g]-2-

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

hexamethyl-

LC 50: > 20 mg/l

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

LC 50: > 5 mg/l

Ethanol, 2,2'-iminobis-LC 0 (Rat): 0.2 mg/l

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

NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation **Butane**

Experimental result, Key study

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

Experimental result, Key study

Cyclopenta[g]-2-

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

hexamethyl-

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

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

NOAEL (Rat(Female, Male), Oral, 91 d): 1,000 mg/kg Oral Experimental

result, Key study



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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): 160 ppm(m) Oral Experimental

result, Key study

LOAEL (Rat(Male), Oral, 13 Weeks): 25 mg/kg Oral Experimental result,

Key study

NOAEL (Rat(Female, Male), Inhalation): 0.2 mg/l Inhalation Experimental

result, Supporting study

LOAEL (Rat(Female, Male), Inhalation): 15 mg/m3 Inhalation Experimental

result, Key study

LOAEL (Rat(Female), Oral, 13 Weeks): 14 mg/kg Oral 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,

in vivo (Rabbit): Irritating Experimental result, Key study

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

Ethanol, 2,2',2"-

nitrilotris-

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 Cyclopenta[g]-2- 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.



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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

Target Organs

Specific Target Organ Toxicity - Single Exposure: Narcotic effect.

Aspiration Hazard

Product: No data available.

Specified substance(s):

Oils, orange, sweet

May be fatal if swallowed and enters airways.

Terpenes and

May be fatal if swallowed and enters airways.

Terpenoids, sweet orange-oil

Oils, orange, sweet,

terpene-free

May be fatal if swallowed and enters airways.

Other effects: No data available.



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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

LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study **Butane**

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

Oils, orange, sweet LC 50 (96 h): < 1 mg/l

Terpenes and Terpenoids, sweet

orange-oil

Cyclopenta[g]-2benzopyran, 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

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 (Western mosquitofish (Gambusia affinis), 6 d): 560 mg/l Mortality

LC 50 (Western mosquitofish (Gambusia affinis), 24 h): 1,800 mg/l Mortality

LC 50 (Bluegill (Lepomis macrochirus), 24 h): 2,100 mg/l Mortality LC 50 (Goldfish (Carassius auratus), 24 h); 800 mg/l Mortality LC 50 (Goldfish (Carassius auratus), 24 h): > 5,000 mg/l Mortality

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

LC 50 (Daphnia sp., 48 h): 69.43 mg/l QSAR QSAR, Key study **Butane**

Oils, orange, sweet,

terpene-free

EC 50 (48 h): < 100 mg/l

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

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

hexamethyl-

EC 50 (Daphnia magna, 48 h): 0.885 mg/l Experimental result, Not specified

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

study

EC 50 (Water flea (Ceriodaphnia dubia), 48 h): 61.8 - 86.04 mg/l Intoxication Ethanol, 2,2'-iminobis-

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LC 50 (Water flea (Daphnia magna), 24 h): 140 - 180 mg/l Mortality LC 50 (Water flea (Daphnia magna), 24 h): 170 mg/l Mortality LC 50 (Water flea (Daphnia magna), 24 h): 154 - 196 mg/l Mortality LC 50 (Water flea (Daphnia magna), 24 h): 180 mg/l Mortality

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

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

hexamethyl-

NOAEL (Daphnia magna): 111 μ g/l Experimental result, Key study EC 50 (Daphnia magna): 282 μ g/l 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-

LC 0 (Daphnia magna): 3.13 mg/l Experimental result, Key study LOAEL (Daphnia magna): 1.56 mg/l Experimental result, Key study 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

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



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

< 70 %

Terpenes and Terpenoids, sweet

orange-oil

Expected to be inherently biodegradable.

Oils, orange, sweet, terpene-free

Cyclopenta[g]-2-

benzopyran, 1,3,4,6,7,8hexahydro-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-96 % (10 d) Detected in water. Experimental result, Supporting study

> 96 % (10 d) Detected in water. Experimental result, Supporting study 93 % (28 d) Detected in water. Experimental result, Supporting study 97 % (28 d) Detected in water. Experimental result, Supporting study 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 Aguatic sediment

Experimental result, Not specified

Cyclopenta[g]-2-

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

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

hexamethyl-

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

sediment Experimental result, Key study

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

Experimental result, Key study

Various, Bioconcentration Factor (BCF): 0.65 Aquatic sediment QSAR, Ethanol, 2,2'-iminobis-

Weight of Evidence study

Various, Bioconcentration Factor (BCF): 0.23 Aquatic sediment QSAR,

Weight of Evidence study

Various, Bioconcentration Factor (BCF): 1.34 Aquatic sediment QSAR,

Weight of Evidence study

Various, Bioconcentration Factor (BCF): 1.65 Aquatic sediment QSAR,

Weight of Evidence study

Bioconcentration Factor (BCF): 3 Aquatic sediment Estimated by calculation,

Weight of Evidence study

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Specified substance(s):



Revision Date: 04/15/2019

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

2-Propanone No data available.
Propane No data available.
Butane No data available.
Oils, orange, sweet No data available.
Terpenes and Terpenoids, No data available.

sweet orange-oil

Oils, orange, sweet, No data available.

terpene-free

Cyclopenta[g]-2- No data available.

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

hexamethyl-

Ethanol, 2,2',2"-nitrilotris- No data available. Ethanol, 2,2'-iminobis- 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



Revision Date: 04/15/2019

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

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. 5000Propanolbs. 400

Propane lbs. 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

Skin sensitizer

Specific Target Organ Toxicity - Single Exposure



Revision Date: 04/15/2019

SARA 302 Extremely Hazardous Substance

Reportable

<u>Chemical Identity</u> 2-Propanone quantity **Threshold Planning Quantity**

SARA 304 Emergency Release Notification

Chemical Identity	Reportable quantity
2-Propanone	lbs. 5000
Propane	lbs. 100
Butane	lbs. 100
Ethanol, 2,2'-iminobis-	lbs. 100

SARA 311/312 Hazardous Chemical

SARA 311/312 nazardous C	nemicai
Chemical Identity	Threshold Planning Quantity
2-Propanone	10000 lbs
Propane	10000 lbs
Butane	10000 lbs
Oils, orange, sweet	10000 lbs
Terpenes and Terpenoids,	10000 lbs
sweet orange-oil	
Oils, orange, sweet,	10000 lbs
terpene-free	
Cyclopenta[g]-2-	10000 lbs
benzopyran, 1,3,4,6,7,8-	
hexahydro-4,6,6,7,8,8-	
hexamethyl-	
Ethanol, 2.2',2"-nitrilotris-	10000 lbs

Ethanol, 2,2'-iminobis-SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

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



Revision Date: 04/15/2019

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



Revision Date: 04/15/2019

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: 04/15/2019

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.