

SAFETY DATA SHEET

1. Identification

Product identifier: 21032 SSS Lavender Fields Metered Air Freshener

Other means of identification

SDS number: RE1000025893

Recommended restrictions

Product use: Air Freshener

Restrictions on use: Not known.

Manufacturer/Importer/Distributor Information

Manufacturer

Company Name: Triple S
Address: 2 Executive Park Dr
Billerica, MA 01862
Telephone: 1-800-323-2251
Fax:

Emergency telephone number: 1-888-779-1339

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

Toxic to reproduction Category 2

Specific Target Organ Toxicity -
Single Exposure Category 3¹

Target Organs

1. Narcotic effect.

Environmental Hazards

Acute hazards to the aquatic
environment Category 3

Label Elements

Hazard Symbol:



Signal Word:

Danger

Hazard Statement: Extremely flammable aerosol.
Causes serious eye irritation.
May cause an allergic skin reaction.
Suspected of damaging fertility or the unborn child.
May cause drowsiness or dizziness.
Harmful to aquatic life.

Precautionary Statements

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Use only outdoors or in a well-ventilated area. Avoid release to the environment.

Response: IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of water/... If skin irritation or rash occurs: Get medical advice/attention. Call a POISON CENTER/doctor if you feel unwell. Specific treatment (see on this label). Wash contaminated clothing before reuse.

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

Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC): None.

3. Composition/information on ingredients

Mixtures

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%
Octanal, 2-(phenylmethylene)-	101-86-0	0.1 - <1%
Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-	5989-27-5	0.1 - <1%
Terpineol, dihydro-, acetate	58985-18-5	0.1 - <1%
Benzenepropanal, 4-(1,1-dimethylethyl)-a-methyl-	80-54-6	0.1 - <1%
2,6-Octadien-1-ol, 3,7-dimethyl-, (2E)-	106-24-1	0.1 - <1%
3-Cyclohexene-1-carboxaldehyde, 2,4-dimethyl-	68039-49-6	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%
Bicyclo[2.2.1]heptan-2-one, 1,7,7-trimethyl-	76-22-2	0.1 - <1%
Acetic acid, phenylmethyl ester	140-11-4	0.1 - <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.
--------------------------------------	---

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.
--	--

Notification Procedures:	Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk.
Environmental Precautions:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer.

7. Handling and storage

Precautions for safe handling:	Avoid contact with eyes. Wash hands thoroughly after handling. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. 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. Store locked up. Aerosol Level 3

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	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)
	PEL	1,000 ppm 2,400 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	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)
	STEL	500 ppm	US. ACGIH Threshold Limit Values (03 2015)
	REL	250 ppm 590 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
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	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)
	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)
Bicyclo[2.2.1]heptan-2-one, 1,7,7-trimethyl-	REL	2 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA	2 ppm	US. ACGIH Threshold Limit Values (2008)
	STEL	3 ppm	US. ACGIH Threshold Limit Values (2008)
	PEL	2 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	2 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	10 ppm	US. ACGIH Threshold Limit Values (2008)
Acetic acid, phenylmethyl ester	TWA	10 ppm	US. ACGIH Threshold Limit Values (2008)
Ethanol, 2,2',2''-nitrilotris-	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (2008)
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)
Ethanol, 2,2'-iminobis- - Inhalable fraction and vapor.	TWA	1 mg/m3	US. ACGIH Threshold Limit Values (2009)

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. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin.

9. Physical and chemical properties

Appearance

Physical state: liquid
Form: Spray Aerosol
Color: No data available.

Odor: No data available.

Odor threshold: No data available.

pH: No data available.

Melting point/freezing point: No data available.

Initial boiling point and boiling range: No data available.

Flash Point: -104.44 °C

Evaporation rate: No data available.

Flammability (solid, gas): No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%): No data available.

Flammability limit - lower (%): No data available.

Explosive limit - upper (%): No data available.

Explosive limit - lower (%): No data available.

Vapor pressure: 3,102.6408 - 4,481.5922 hPa (20 °C)

Vapor density:	No data available.
Density:	No data available.
Relative density:	No data available.
Solubility(ies)	
Solubility in water:	No data available.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.

10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	Avoid heat or contamination.
Incompatible Materials:	No data available.
Hazardous Decomposition Products:	No data available.

11. Toxicological information

Information on likely routes of exposure

Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral	
Product:	Not classified for acute toxicity based on available data.
Specified substance(s):	
2-Propanone	LD 50 (Rat): 5,800 mg/kg

Octanal, 2-(phenylmethylene)-	LD 50: > 2,000 mg/kg
Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-	LD 50 (Rat): > 2,000 mg/kg
Terpineol, dihydro-, acetate	LD 50: > 2,000 mg/kg
Benzenepropanal, 4-(1,1-dimethylethyl)-a-methyl-	LD 50 (Rat): 1,390 mg/kg
2,6-Octadien-1-ol, 3,7-dimethyl-, (2E)-	LD 50 (Rat): 3,600 mg/kg
3-Cyclohexene-1-carboxaldehyde, 2,4-dimethyl-	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
Bicyclo[2.2.1]heptan-2-one, 1,7,7-trimethyl-	LD 50 (Mouse): 1,310 mg/kg
Acetic acid, phenylmethyl ester	LD 50 (Rat): > 2,000 mg/kg

Dermal

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

Specified substance(s):

2-Propanone	LD 50 (Rabbit): > 7,426 mg/kg
Octanal, 2-(phenylmethylene)-	LD 50: > 2,000 mg/kg
Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-	LD 50 (Rabbit): > 5,000 mg/kg
Terpineol, dihydro-, acetate	LD 50: > 2,000 mg/kg
Benzenepropanal, 4-(1,1-dimethylethyl)-a-methyl-	LD 50 (Rat): > 2,000 mg/kg
2,6-Octadien-1-ol, 3,7-dimethyl-, (2E)-	LD 50 (Rabbit): > 5,000 mg/kg
3-Cyclohexene-1-carboxaldehyde, 2,4-dimethyl-	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): > 10,000 mg/kg
Bicyclo[2.2.1]heptan-2-one, 1,7,7-trimethyl-	LD 50: > 2,000 mg/kg
Acetic acid, phenylmethyl ester	LD 50 (Rabbit): > 5 g/kg

Inhalation

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

Specified substance(s):

2-Propanone	LC 50 (Rat): 50.1 mg/l LC 50: > 5 mg/l
Propane	LC 50 (Mouse): 1,237 mg/l
Butane	LC 50 (Mouse): 1,237 mg/l
Octanal, 2-(phenylmethylene)-	LC 50: > 20 mg/l
Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-	LC 50: > 20 mg/l LC 50: > 5 mg/l
Terpineol, dihydro-, acetate	LC 50: > 5 mg/l LC 50: > 20 mg/l
2,6-Octadien-1-ol, 3,7-dimethyl-, (2E)-	LC 50: > 20 mg/l LC 50: > 5 mg/l
3-Cyclohexene-1-carboxaldehyde, 2,4-dimethyl-	LC 50: > 5 mg/l LC 50: > 20 mg/l
Cyclopenta[g]-2-benzopyran, 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethyl-	LC 50: > 5 mg/l LC 50: > 20 mg/l
Bicyclo[2.2.1]heptan-2-one, 1,7,7-trimethyl-	LC 50 (Rat): 500 mg/m3
Acetic acid, phenylmethyl ester	LC Lo (Rat): > 0.766 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
Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-	NOAEL (Rat(Male), Oral, 13 Weeks): 600 mg/kg Oral Experimental result, Key study
Benzenepropanal, 4-(1,1-dimethylethyl)-a-methyl-	NOAEL (Rat(Female, Male), Oral, 30 d): 5 mg/kg Oral Other, Key study NOAEL (Rat(Female, Male), Oral, 90 d): 25 mg/kg Oral Experimental result, Key study NOAEL (Rat(Male), Dermal, 5 d): 1,000 mg/kg Dermal Other, Key study NOAEL (Rat(Female, Male), Oral, 30 d): 25 mg/kg Oral Other, Key study
2,6-Octadien-1-ol, 3,7-dimethyl-, (2E)-	NOAEL (Rat(Female, Male), Oral, 112 - 196 d): > 550 mg/kg Oral Experimental result, Key study NOAEL (Rat(Female, Male), Dermal): 300 mg/kg Dermal Experimental result, Key study
Cyclopenta[g]-2-	NOAEL (Rat(Female, Male), Oral, 13 Weeks): 150 mg/kg Oral Experimental

benzopyran, 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethyl-	result, Key study
Bicyclo[2.2.1]heptan-2-one, 1,7,7-trimethyl-	NOAEL (Rat(Female, Male), Dermal): 250 mg/kg Dermal Experimental result, Weight of Evidence study
Acetic acid, phenylmethyl ester	NOAEL (Rat(Female), Oral, 13 Weeks): 480 mg/kg Oral Experimental result, Supporting study NOAEL (Rat(Male), Oral, 13 Weeks): 900 mg/kg Oral Experimental result, Supporting study

Skin Corrosion/Irritation

Product: No data available.

Specified substance(s):

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

Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)- in vivo (Rabbit): Not irritant Experimental result, Key study

Benzenepropanal, 4-(1,1-dimethylethyl)-a-methyl- in vivo (Rabbit): Irritating Experimental result, Key study

2,6-Octadien-1-ol, 3,7-dimethyl-, (2E)- in vivo (Rabbit): Irritating Experimental result, Key study

Cyclopenta[g]-2-benzopyran, 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethyl- in vivo (Rabbit): Irritating Experimental result, Key study

Bicyclo[2.2.1]heptan-2-one, 1,7,7-trimethyl- in vivo (Rabbit): Not irritant Experimental result, Supporting 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

Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)- Rabbit, 24 - 72 hrs: Not irritating

Respiratory or Skin Sensitization

Product: No data available.

Specified substance(s):

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

Benzenepropanal, 4-(1,1-dimethylethyl)-a-methyl- Skin sensitization:, in vivo (Guinea pig): Sensitising

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

Specified substance(s):

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

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specified substance(s):

2-Propanone Inhalation - vapor: Narcotic effect. - Category 3 with narcotic effects.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Target Organs

Specific Target Organ Toxicity - Single Exposure: Narcotic effect.

Aspiration Hazard

Product: No data available.

Other effects: No data available.

12. Ecological information**Ecotoxicity:****Acute hazards to the aquatic environment:****Fish**

Product: No data available.

Specified substance(s):

2-Propanone 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

Octanal, 2-(phenylmethylene)- LC 50 (96 h): < 1 mg/l Review

Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-	EC 50 (Pimephales promelas, 96 h): 688 µg/l Experimental result, Key study
Terpineol, dihydro-, acetate	LC 50 (96 h): < 10 mg/l
Benzenepropanal, 4-(1,1-dimethylethyl)-a-methyl-	NOAEL (Danio rerio, 96 h): 1.28 mg/l Experimental result, Key study EC 50 (Danio rerio, 96 h): 2.04 mg/l Experimental result, Key study
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
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
Bicyclo[2.2.1]heptan-2-one, 1,7,7-trimethyl-	LC 50 (Pimephales promelas, 96 h): 110 mg/l Experimental result, Weight of Evidence study
Acetic acid, phenylmethyl ester	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
Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-	EC 50 (Daphnia magna, 48 h): 0.36 mg/l Experimental result, Key study NOAEL (Daphnia magna, 48 h): 0.074 mg/l Experimental result, Key study
Benzenepropanal, 4-(1,1-dimethylethyl)-a-methyl-	EC 50 (Daphnia magna, 48 h): 9.84 mg/l Experimental result, Key study
2,6-Octadien-1-ol, 3,7-dimethyl-, (2E)-	EC 50 (Daphnia magna, 48 h): 10.8 mg/l Experimental result, Key study
Cyclopenta[g]-2-benzopyran, 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
Bicyclo[2.2.1]heptan-2-one, 1,7,7-trimethyl-	LC 50 (48 h): 9.303 mg/l QSAR QSAR, Key study
Acetic acid, phenylmethyl ester	EC 50 (Daphnia magna, 48 h): 17 mg/l Experimental result, Key study

Chronic hazards to the aquatic environment:

Fish

Product:	No data available.
Specified substance(s):	
Octanal, 2-(phenylmethylene)-	NOEC (21 d): < 10 mg/l Review
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

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
Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-	NOAEL (Freshwater invertebrates, species frequently include Daphnia magna or Daphnia pulex): 0.115 mg/l QSAR QSAR, Weight of Evidence study
Cyclopenta[g]-2-benzopyran, 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethyl-	NOAEL (Daphnia magna): 111 µg/l Experimental result, Key study EC 50 (Daphnia magna): 282 µg/l Experimental result, Key study

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
Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-	80 % (28 d) Detected in water. Read-across from supporting substance (structural analogue or surrogate), Key study
Terpineol, dihydro-, acetate	< 70 % (10 d, Assessment)
Benzenepropanal, 4-(1,1-dimethylethyl)-a-methyl-	80.7 % (28 d) Detected in water. Experimental result, Key study
2,6-Octadien-1-ol, 3,7-dimethyl-, (2E)-	90 - 100 % (3 d) Detected in water. Experimental result, Key study 94 % (28 d) Detected in water. Experimental result, Supporting study
Cyclopenta[g]-2-benzopyran, 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethyl-	60 % (28 d) Sediment Experimental result, Key study
Bicyclo[2.2.1]heptan-2-one, 1,7,7-trimethyl-	77 % Detected in water. Experimental result, Key study
Acetic acid, phenylmethyl ester	100 % (28 d) Detected in water. Experimental result, Key study

BOD/COD Ratio

Product:	No data available.
-----------------	--------------------

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product:	No data available.
-----------------	--------------------

Specified substance(s):

2-Propanone	Haddock, adult, Bioconcentration Factor (BCF): 0.69 Aquatic sediment Experimental result, Not specified
Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-	Bioconcentration Factor (BCF): 864.8 Aquatic sediment QSAR, Key study
Benzenepropanal, 4-(1,1-dimethylethyl)-a-methyl-	Bioconcentration Factor (BCF): 274.3 Aquatic sediment Estimated by calculation, Key study
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
Acetic acid, phenylmethyl ester	Bioconcentration Factor (BCF): 8 Aquatic sediment Estimated by calculation, Key study

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Specified substance(s):

Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-	Log Kow: 4.34 - 4.46 25 °C No Experimental result, Supporting study
2,6-Octadien-1-ol, 3,7-dimethyl-, (2E)-	Log Kow: 2.6 25 °C

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

2-Propanone	No data available.
Propane	No data available.
Butane	No data available.
Octanal, 2-(phenylmethylene)-	No data available.
Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-	No data available.
Terpineol, dihydro-, acetate	No data available.
Benzenepropanal, 4-(1,1-dimethylethyl)-a-methyl-	No data available.
2,6-Octadien-1-ol, 3,7-dimethyl-, (2E)-	No data available.
3-Cyclohexene-1-carboxaldehyde, 2,4-dimethyl-	No data available.
Cyclopenta[g]-2-benzopyran, 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethyl-	No data available.
Bicyclo[2.2.1]heptan-2-one, 1,7,7-trimethyl-	No data available.
Acetic acid, phenylmethyl ester	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
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):

<u>Chemical Identity</u>	<u>Reportable quantity</u>
2-Propanone	lbs. 5000
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
Delayed (Chronic) Health Hazard
Flammable aerosol
Serious Eye Damage/Eye Irritation
Skin sensitizer
Toxic to reproduction
Specific Target Organ Toxicity - Single Exposure

SARA 302 Extremely Hazardous Substance

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

SARA 304 Emergency Release Notification

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

SARA 311/312 Hazardous Chemical

<u>Chemical Identity</u>	<u>Threshold Planning Quantity</u>
2-Propanone	10000 lbs
Propane	10000 lbs
Butane	10000 lbs
Octanal, 2-	10000 lbs
(phenylmethylene)-	
Cyclohexene, 1-methyl-4-	10000 lbs
(1-methylethenyl)-, (4R)-	
Terpineol, dihydro-,	10000 lbs
acetate	
Benzenepropanal, 4-(1,1-	10000 lbs
dimethylethyl)-a-methyl-	
2,6-Octadien-1-ol, 3,7-	10000 lbs
dimethyl-, (2E)-	
3-Cyclohexene-1-	10000 lbs
carboxaldehyde, 2,4-	
dimethyl-	
Cyclopenta[g]-2-	10000 lbs
benzopyran, 1,3,4,6,7,8-	
hexahydro-4,6,6,7,8,8-	
hexamethyl-	
Bicyclo[2.2.1]heptan-2-	10000 lbs
one, 1,7,7-trimethyl-	
Acetic acid, phenylmethyl	10000 lbs
ester	
Ethanol, 2,2',2''-nitrilotris-	10000 lbs
Ethanol, 2,2'-iminobis-	10000 lbs

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

US State Regulations

US. California Proposition 65

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

Ethanol, 2,2'-iminobis- Carcinogenic. 07 2012

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity

2-Propanone

Propane

Butane

US. Massachusetts RTK - Substance List

No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

2-Propanone

Propane

Butane

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

International regulations

Montreal protocol

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol

Not applicable

Inventory Status:

Australia AICS:	Not in compliance with the inventory.
Canada DSL Inventory List:	On or in compliance with the inventory
EINECS, ELINCS or NLP:	Not in compliance with the inventory.
Japan (ENCS) List:	Not in compliance with the inventory.
China Inv. Existing Chemical Substances:	Not in compliance with the inventory.
Korea Existing Chemicals Inv. (KECI):	Not in compliance with the inventory.
Canada NDSL Inventory:	Not in compliance with the inventory.
Philippines PICCS:	Not in compliance with the inventory.
US TSCA Inventory:	On or in compliance with the inventory
New Zealand Inventory of Chemicals:	Not in compliance with the inventory.
Japan ISHL Listing:	Not in compliance with the inventory.
Japan Pharmacopoeia Listing:	Not in compliance with the inventory.
Mexico INSQ:	Not in compliance with the inventory.
Ontario Inventory:	Not in compliance with the inventory.
Taiwan Chemical Substance Inventory:	Not in compliance with the inventory.

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

Issue Date: 09/10/2019

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.