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SAFETY DATA SHEET

1. Identification

Product identifier: Terand Dutch Apple Metered Air Freshener

Other means of identification

SDS number: RE1000001346

Recommended restrictions

Product Use: Air Freshener Restrictions on use: Not known.

Manufacturer/Importer/Distributor Information

Manufacturer

Company Name: CPC

Address: 1000 INTEGRAM DRIVE

PACIFIC, MO 63069

Telephone: 1-800-327-1835

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 3¹.

Single Exposure

Target Organs

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 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.

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%
Cyclopenta[g]-2-benzopyran, 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethyl-	1222-05-5	0.1 - <1%
1,2-Benzenedicarboxylic acid, 1,2-diethyl ester	84-66-2	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%

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.



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4. First-aid measures

Ingestion: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

Inhalation: Move to fresh air.

Skin Contact: Wash skin thoroughly with soap and water. If skin irritation occurs: Get

medical advice/attention.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do,

remove contact lenses. Get medical attention.

Most important symptoms/effects, acute and delayed

Symptoms: No data available.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: No data available.

5. Fire-fighting measures

General Fire Hazards: Use water spray to keep fire-exposed containers cool. Fight fire from a

protected location. Move containers from fire area if you can do so without

risk.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media:

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical:

Vapors may travel considerable distance to a source of ignition and flash

back.

Special protective equipment and precautions for firefighters

Special 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.



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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.

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 Lir	nit 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 2006)
	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)
	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)
	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 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



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				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)
1,2-Benzenedicarboxylic acid, 1,2-diethyl ester	REL		5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
•	TWA		5 mg/m3	US. ACGIH Threshold Limit Values (2008)
	TWA PEL		5 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
	TWA		5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA		5 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	ST ESL		50 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	AN ESL		5 μg/m3	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 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-	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 Commission on Environmental Quality) (11 2016)
	TWA	3 ppm	15 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA PEL	0.46 ppm	2 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
	ST ESL		97 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-	TWA	3 ppm	15 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)



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Biological Limit Values

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

Appropriate Engineering

No data available.

Controls

Individual protection measures, such as personal protective equipment

General information: Provide easy access to water supply and eye wash facilities. Good general

ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to

maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If exposure limits have not been established, maintain airborne levels

to an acceptable level.

Eye/face protection: Wear safety glasses with side shields (or goggles).

Skin Protection

Hand Protection: No data available.

Other: No data available.

Respiratory Protection: In case of inadequate ventilation use suitable respirator. Seek advice from

local supervisor.

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

using do not smoke.

9. Physical and chemical properties

Appearance

Physical state: liquid

Form: Spray Aerosol Color: No data available. Odor: No data available. Odor threshold: No data available. No data available. Melting point/freezing point: No data available. Initial boiling point and boiling range: No data available. Flash Point: No data available. **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.



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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:

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.

Other information

Minimum ignition temperature: -104.44 °C

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.



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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.

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

Specified substance(s):

2-Propanone LD 50 (Rat): 5,800 mg/kg

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

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

1,2-Benzenedicarboxylic

LD 50 (Mouse): 2,500 mg/kg acid, 1,2-diethyl ester

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

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

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

hexamethyl-

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.



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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

Cyclopenta[q]-2-

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

hexamethyl-

Proprietary LC 50: > 5 mg/l

LC 50: > 20 mg/l

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): 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, 1,3,4,6,7,8hexahydro-4,6,6,7,8,8-

hexahydro-4,6,6,7,8,8hexamethyl-1,2-Benzenedicarboxylic

acid, 1,2-diethyl ester Ethanol, 2,2',2"-nitrilotrisNOAEL (Rat(Female, Male), Oral, 6 - 16 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

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, SDS US - RE1000001346 9/18



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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]-2benzopyran,

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

1.2in vivo (Rabbit): Not irritant Experimental result, Key study

Benzenedicarboxylic acid, 1,2-diethyl ester

Ethanol, 2,2',2"-

nitrilotris-

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

in vivo (Rabbit): Irritating 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

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

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-

1,2-Benzenedicarboxylic

acid, 1,2-diethyl ester

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):

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.



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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

Cyclopenta[q]-2-

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

study

1,2-Benzenedicarboxylic acid, 1,2-diethyl ester

NOAEL (Oncorhynchus mykiss, 96 h): 1.9 mg/l Experimental result, Key

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

study

LC 50 (Oncorhynchus mykiss, 96 h): 12 mg/l Experimental result, Key study

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

study

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

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]-2benzopyran, 1,3,4,6,7,8hexahydro-4,6,6,7,8,8hexamethylEC 50 (Daphnia magna, 48 h): 0.885 mg/l Experimental result, Not specified

1,2-Benzenedicarboxylic

acid, 1,2-diethyl ester

NOAEL (Daphnia magna, 48 h): 43 mg/l Experimental result, Key study LC 50 (Daphnia magna, 48 h): 90 mg/l Experimental result, Key study

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]-2benzopyran, 1,3,4,6,7,8hexahydro-4,6,6,7,8,8LC 50 (Lepomis macrochirus): 0.452 mg/l Experimental result, Key study LOAEL (Pimephales promelas): 0.14 mg/l Experimental result, Key study

hexamethyl-

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

1,2-Benzenedicarboxylic acid, 1,2-diethyl ester

NOAEL (Daphnia magna): 25 mg/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-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

100 % (385.5 h) Detected in water. Experimental result, Key study Propane

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

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

1,2-Benzenedicarboxylic

acid, 1,2-diethyl ester

94.6 % (28 d) Detected in water. Experimental result, Key study

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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

No data available. **Product:**



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

hexamethyl-

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

sediment Experimental result, Key study

1,2-Benzenedicarboxylic

acid, 1,2-diethyl ester

Bluegill (Lepomis macrochirus), Bioconcentration Factor (BCF): 117 (Flow

through)

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

Experimental result, Key study

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

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

2-Propanone No data available.
Propane No data available.
Butane No data available.
Cyclopenta[g]-2- No data available.

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

hexamethyl-

1,2-Benzenedicarboxylic

No data available.

acid, 1,2-diethyl ester

Proprietary

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



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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

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.



Revision Date: 06/06/2019

CERCLA Hazardous Substance List (40 CFR 302.4):

<u>Chemical Identity</u> <u>Reportable quantity</u>

2-Propanone Ibs. 5000
Propane Ibs. 100
Butane Ibs. 100
1,2-Benzenedicarboxylic Ibs. 1000

acid, 1,2-diethyl ester

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 IdentityReportable quantity2-Propanonelbs. 5000Propanelbs. 100Butanelbs. 1001,2-Benzenedicarboxyliclbs. 1000

acid, 1,2-diethyl ester

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

 Cyclopenta[g]-2 10000 lbs

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

hexamethyl-

1,2-Benzenedicarboxylic 10000 lbs

acid, 1,2-diethyl ester

Proprietary 10000 lbs 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.



Revision Date: 06/06/2019

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



Revision Date: 06/06/2019

Inventory Status:

Australia AICS: On or 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: On or in compliance with the inventory

US TSCA Inventory: On or in compliance with the inventory

New Zealand Inventory of Chemicals:

On or in compliance with the inventory

Japan ISHL Listing: On or in compliance with the inventory

Japan Pharmacopoeia Listing: Not in compliance with the inventory.

Mexico INSQ: On or in compliance with the inventory

Ontario Inventory: On or in compliance with the inventory

Taiwan Chemical Substance Inventory: On or in compliance with the inventory

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

Issue Date: 06/06/2019

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.