

Revision Date: 07/30/2019

SAFETY DATA SHEET

1. Identification

Product identifier: Camie 556 Spray Adhesive

Other means of identification

SDS number: RE1000039705

Recommended restrictions
Product Use: Adhesive

Restrictions on use: Not known.

Manufacturer/Importer/Distributor Information

Manufacturer

Company Name: Camie-Campbell, Inc.
Address: 1000 INTEGRAM DRIVE
PACIFIC, MO 63069

Telephone:

Fax:

Emergency telephone number: 1-866-836-8855

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Flammable aerosol Category 1

Health Hazards

Skin Corrosion/Irritation Category 2
Serious Eye Damage/Eye Irritation Category 2A
Skin sensitizer Category 1
Specific Target Organ Toxicity - Category 3¹

Single Exposure

Target Organs

Narcotic effect.

Environmental Hazards

Acute hazards to the aquatic Category 3

environment

Chronic hazards to the aquatic Category 3

environment

Label Elements

Hazard Symbol:





Revision Date: 07/30/2019

Signal Word: Danger

Hazard Statement: Extremely flammable aerosol.

Causes skin irritation.

Causes serious eye irritation. May cause an allergic skin reaction. May cause drowsiness or dizziness.

Harmful to aquatic life with long lasting effects.

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°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	20 - <50%
Propane	74-98-6	10 - <20%
Butane	106-97-8	10 - <20%
Heptane, branched, cyclic and linear	426260-76-6	5 - <10%
Heptane	142-82-5	5 - <10%
Naphtha (petroleum), hydrotreated light	64742-49-0	5 - <10%
Solvent naphtha (petroleum), light aliph.	64742-89-8	5 - <10%
Acetic acid, methyl ester	79-20-9	5 - <10%



Revision Date: 07/30/2019

Maleic Anhydride Modified Liquid Polyisoprene	841251-34-1	1 - <5%
Benzene, 1-chloro-4- (trifluoromethyl)-	98-56-6	1 - <5%
Methanol	67-56-1	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: Get medical 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.



Revision Date: 07/30/2019

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:

Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid release to the environment.

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 skin. Avoid contact with eyes, skin, and clothing.

Conditions for safe storage, including any

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 Lin	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)



Revision Date: 07/30/2019

	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)
Naphtha (petroleum), hydrotreated light	PEL	100 ppm	400 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (03 2016)
<u> </u>	TWA PEL	300 ppm	1,350 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (01 2015)
	STEL	400 ppm	1,800 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (01 2015)
	TWA	100 ppm	400 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	REL	100 ppm	400 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	ST ESL		3,500 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	AN ESL		350 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	TWA	100 ppm	400 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Solvent naphtha (petroleum), light aliph.	ST ESL		3,500 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	AN ESL		350 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	TWA	100 ppm	400 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	STEL	400 ppm	1,800 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (01 2015)
	REL	100 ppm	400 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	TWA PEL	300 ppm	1,350 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (01 2015)
	TWA	100 ppm	400 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	PEL	100 ppm	400 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (03 2016)
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Revision Date: 07/30/2019

Heptane	TWA	400 ppm	1,600 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	500 ppm	2,000 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
	REL	85 ppm	350 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	500 ppm		US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	STEL		2,000 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	400 ppm		US. ACGIH Threshold Limit Values (02 2012)
	STEL	500 ppm		US. ACGIH Threshold Limit Values (02 2012)
	TWA	400 ppm		US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	ST ESL		10,000 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	AN ESL		2,700 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	ST ESL		2,400 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	Ceil_Time	440 ppm	1,800 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA PEL	400 ppm	1,600 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
	STEL	500 ppm	2,000 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	AN ESL		660 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
Acetic acid, methyl ester	REL	200 ppm	610 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	STEL	250 ppm	760 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	200 ppm	610 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	STEL	250 ppm		US. ACGIH Threshold Limit Values (2008)
	AN ESL		600 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	TWA	200 ppm	610 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	250 ppm	760 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	250 ppm	760 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
	ST ESL		6,000 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	TWA	200 ppm		US. ACGIH Threshold Limit Values (2008)
	TWA PEL	200 ppm	610 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
	STEL	250 ppm	760 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	TWA	200 ppm	610 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	AN ESL		200 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	ST ESL		2,000 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
Methanol	TWA	200 ppm	260 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)



Revision Date: 07/30/2019

STEL	250 ppm	325 mg/m3	US. Tennessee. OELs. Occupational Exposure
			Limits, Table Z1A (06 2008)
AN ESL		2,100 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
AN ESL		1,600 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
ST ESL		3,900 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
ST ESL		3,000 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
STEL	250 ppm	325 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
STEL	250 ppm		US. ACGIH Threshold Limit Values (2008)
STEL	250 ppm	325 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
TWA	200 ppm	260 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Ceiling	1,000 ppm		US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
TWA PEL	200 ppm	260 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
TWA	200 ppm		US. ACGIH Threshold Limit Values (2008)
STEL	250 ppm	325 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
REL	200 ppm	260 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
 PEL	200 ppm	260 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)

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.)		
Methanol (methanol:	15 mg/l (Urine)	ACGIH BEL (03 2013)
Sampling time: End of shift.)		

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 suitable protective clothing. Wear chemical-resistant gloves, footwear,

and protective clothing appropriate for the risk of exposure. Contact health



Revision Date: 07/30/2019

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

using do not smoke. Wash contaminated clothing before reuse. Avoid contact with skin. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed

out of the workplace.

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. pH: Melting point/freezing point: No data available. Initial boiling point and boiling range: No data available. Flash Point: Estimated -104.4 °C **Evaporation rate:** No data available. Flammability (solid, gas): No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%): Estimated 11.4 %(V) Flammability limit - lower (%): Estimated 2.2 %(V) Explosive limit - upper (%): No data available. **Explosive limit - lower (%):** No data available. No data available. Vapor pressure: Vapor density: No data available. Density: No data available. Relative density: No data available.

Solubility(ies)

Solubility in water:
Solubility (other):
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.



Revision Date: 07/30/2019

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

Heptane, branched, cyclic and linear

LD 50: > 2,000 mg/kg

Heptane LD 50 (Rat): > 5,000 mg/kg

Naphtha (petroleum), hydrotreated light

LD 50 (Rat): > 5,000 mg/kg

Solvent naphtha (petroleum), light aliph.

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LD 50 (Rat): > 5,000 mg/kg

Acetic acid, methyl ester LD 50 (Rat): 6,482 mg/kg

Maleic Anhydride Modified Liquid Polyisoprene LD 50: > 2,000 mg/kg

Benzene, 1-chloro-4-(trifluoromethyl)- LD 50 (Rat): > 2,000 mg/kg



Revision Date: 07/30/2019

Methanol LD 50 (Rat): > 1,187 - 2,769 mg/kg

Dermal

Product: ATEmix: 580,091.78 mg/kg

Inhalation

Product: ATEmix: 145.41 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

Heptane NOAEL (Rat(Male), Inhalation): 12,470 mg/m3 Inhalation Experimental

result, Key study

Naphtha (petroleum), hydrotreated light

LOAEL (Rat(Female, Male), Oral, 13 Weeks): 1,250 mg/kg Oral Readacross based on grouping of substances (category approach), Key study

NOAEL (Rat(Female, Male), Dermal, 28 d): > 375 mg/kg Dermal

Experimental result, Supporting study

NOAEL (Rat(Female, Male), Inhalation): 10,000 mg/m3 Inhalation

Experimental result, Key study

Solvent naphtha (petroleum), light aliph.

NOAEL (Mouse, Rat(Female, Male), Inhalation, 107 - 113 Weeks): 1,402

mg/m3 Inhalation Experimental result. Key study

NOAEL (Rat(Female, Male), Dermal, 5 - 28 d): 3,750 mg/kg Dermal

Experimental result, Key study

NOAEL (Rat(Female, Male), Dermal, 28 d): > 375 mg/kg Dermal

Experimental result, Supporting study

Acetic acid, methyl ester NOAEL (Rat(Female, Male), Inhalation, 28 d): 350 ppm(m) Inhalation

Experimental result, Key study

LOAEL (Rat(Female, Male), Inhalation, 28 d): 2,000 ppm(m) Inhalation

Experimental result, Key study

Benzene, 1-chloro-4-(trifluoromethyl)- NOAEL (Rat(Male), Oral, 90 - 92 d): 40 mg/kg Oral Experimental result, Key

study

NOAEL (Rat(Male), Inhalation): 5.5 mg/m3 Inhalation Experimental result,

Key study

Methanol LOAEL (Rat(Male), Inhalation, 1 - 6 Weeks): 13.3 mg/l Inhalation

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

Heptane in vivo (Rabbit): Irritating Read-across based on grouping of substances

(category approach), Key study

Acetic acid, methyl

ester

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

SDS US - RE1000039705



Revision Date: 07/30/2019

Benzene, 1-chloro-4-(trifluoromethyl)- in vivo (Rabbit): Not irritant (unspecified classification) Experimental result,

Key study

Methanol 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

Heptane Rabbit, 24 - 72 hrs: Not irritating

Naphtha (petroleum), hydrotreated light

Rabbit, 24 - 72 hrs: Not irritating

Solvent naphtha

(petroleum), light aliph.

Rabbit: Not irritating

Acetic acid, methyl

ester

Rabbit: Irritating

Respiratory or Skin Sensitization

Product: No data available.

Specified substance(s):

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

hydrotreated light

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

(petroleum), light aliph.

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

Carcinogenicity

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product: No data available.

In vivo

Product: No data available.

Reproductive toxicity

Product: No data available.

SDS US - RE1000039705



Revision Date: 07/30/2019

Specific Target Organ Toxicity - Single Exposure

Product:

No data available.

Specified substance(s):

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

Heptane Narcotic effect. - Category 3 with narcotic effects.

Methanol Causes damage to organs.

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.

Specified substance(s):

Heptane, branched, cyclic

May be fatal if swallowed and enters airways.

and linear

Heptane Naphtha (petroleum), May be fatal if swallowed and enters airways. May be fatal if swallowed and enters airways.

hydrotreated light

Solvent naphtha

May be fatal if swallowed and enters airways.

(petroleum), light aliph.

No data available.

12. Ecological information

Ecotoxicity:

Other effects:

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

Heptane LC 50 (Mozambique tilapia (Tilapia mossambica), 96 h): 375 mg/l Mortality

Naphtha (petroleum), hydrotreated light

LC 50 (96 h): 8.41 mg/l Experimental result, Key study

Solvent naphtha

(petroleum), light aliph.

LL 50 (Pimephales promelas, 96 h): 8.2 mg/l Experimental result, Key study

Acetic acid, methyl ester LC 50 (Fathead minnow (Pimephales promelas), 96 h): 295 - 348 mg/l

Mortality

LC 50 (Danio rerio, 48 h): 250 - 350 mg/l Experimental result, Key study

Benzene, 1-chloro-4-(trifluoromethyl)-

NOAEL (96 h): 2.2 mg/l Experimental result, Key study LC 50 (96 h): 3 mg/l Experimental result, Key study

SDS US - RE1000039705



Revision Date: 07/30/2019

Methanol EC 50 (Lepomis macrochirus, 96 h): 12,700 mg/l Experimental result, Key

study

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

2-Propanone LC 50 (Daphnia pulex, 48 h): 8,800 mg/l Experimental result, Key study

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

Heptane EC 50 (Daphnia magna, 48 h): 1.5 mg/l Experimental result, Key study

Naphtha (petroleum), hydrotreated light

EC 50 (Daphnia magna, 48 h): 4.5 mg/l Experimental result, Key study

Solvent naphtha (petroleum), light aliph.

EC 50 (Daphnia magna, 48 h): 4.5 mg/l Experimental result, Key study NOAEL (Daphnia magna, 48 h): 0.5 mg/l Experimental result, Key study

Acetic acid, methyl ester EC 50 (Daphnia magna, 48 h): 1,026.7 mg/l Experimental result, Key study

Benzene, 1-chloro-4-(trifluoromethyl)- NOAEL (Daphnia magna, 48 h): 9.15 mg/l Experimental result, Key study EC 50 (Daphnia magna, 48 h): 18.84 mg/l Experimental result, Key study

Methanol EC 50 (Daphnia magna, 96 h): 18,260 mg/l Experimental result, Key study

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

Heptane NOAEL (Oncorhynchus mykiss): 1.284 mg/l QSAR QSAR, Key study

Naphtha (petroleum), hydrotreated light

EC 50 (Daphnia magna): 10 mg/l Other, Key study NOAEL (Daphnia magna): 2.6 mg/l Other, Key study

Solvent naphtha (petroleum), light aliph.

NOAEL (Daphnia magna): 2.6 mg/l Other, Key study

Methanol EC 50 (Oryzias latipes): 9,164 mg/l Experimental result, 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

Heptane, branched, cyclic and linear

NOEC: < 1 mg/l estimation

Heptane NOAEL (Daphnia magna): 0.17 mg/l Read-across based on grouping of

substances (category approach), Key study

EC 50 (Daphnia magna): 0.23 mg/l Read-across based on grouping of

substances (category approach), Key study

Naphtha (petroleum), hydrotreated light

EC 50 (Daphnia magna): 10 mg/l Experimental result, Key study NOAEL (Daphnia magna): 2.6 mg/l Experimental result, Key study

SDS_US - RE1000039705

13/20



Revision Date: 07/30/2019

Solvent naphtha (petroleum), light aliph.

EC 50 (Daphnia magna): > 40 mg/l Experimental result, Key study

Methanol NOAEL (Daphnia magna): 122 mg/l Experimental result, Supporting 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

Heptane 70 % Detected in water. Experimental result, Key study

Naphtha (petroleum), hydrotreated light

90.35 % (28 d) Detected in water. Experimental result, Supporting study

Solvent naphtha (petroleum), light aliph.

89 % (28 d) Detected in water. Experimental result, Supporting study 94 % (25 d) Detected in water. Experimental result, Supporting study 74.76 % Detected in water. Experimental result, Supporting study 90.35 % (28 d) Detected in water. Experimental result, Supporting study 14.89 % Detected in water. Experimental result, Supporting study

Acetic acid, methyl ester 70 % Detected in water. Experimental result, Key study

Benzene, 1-chloro-4-(trifluoromethyl)- 3% (28 d) Detected in water. Experimental result, Key study

Methanol 97 % Detected in water. Experimental result, Key study

BOD/COD Ratio

Product: No data available.

ioaccumulative 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

Heptane Bioconcentration Factor (BCF): 552 Aquatic sediment Estimated by

calculation, Key study

Naphtha (petroleum), hydrotreated light

Bioconcentration Factor (BCF): 10 - 2,500 Aquatic sediment Estimated by

calculation, Key study



Revision Date: 07/30/2019

Solvent naphtha Bioconcentration Factor (BCF): 10 - 2,500 Aquatic sediment Estimated by

(petroleum), light aliph. calculation, Key study

Benzene, 1-chloro-4-(trifluoromethyl)-

Bioconcentration Factor (BCF): 9 Aquatic sediment Estimated by calculation,

Key study

Methanol Leuciscus idus, Bioconcentration Factor (BCF): < 10 Aquatic sediment

Experimental result, Supporting study

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Specified substance(s):

Naphtha (petroleum), Log Kow: > 2.4 - < 5.7 23 °C Yes Experimental result, Key study hydrotreated light

Log Kow: 2.2 - 5.2 23 °C Yes Experimental result, Key study Log Kow: 2.2 - 6.1 23 °C Yes Experimental result, Key study

No data available. Mobility in soil:

Known or predicted distribution to environmental compartments

2-Propanone No data available. Propane No data available. Butane No data available. Heptane, branched, cyclic No data available.

and linear

Heptane No data available. No data available. Naphtha (petroleum),

hydrotreated light

Solvent naphtha No data available.

(petroleum), light aliph.

Acetic acid, methyl ester No data available. Maleic Anhydride Modified No data available.

Liquid Polyisoprene

Benzene, 1-chloro-4-

(trifluoromethyl)-

Methanol No data available.

Known or predicted distribution to environmental compartments

No data available.

2-Propanone No data available. Propane No data available. Butane No data available. Heptane, branched, cyclic No data available.

and linear

Heptane No data available. Naphtha (petroleum), No data available.

hydrotreated light

Solvent naphtha No data available.

(petroleum), light aliph.

Acetic acid, methyl ester No data available. Maleic Anhydride Modified No data available.

Liquid Polyisoprene

Benzene, 1-chloro-4-No data available.

(trifluoromethyl)-

Methanol No data available.

Other adverse effects: Harmful to aquatic life with long lasting effects.



Revision Date: 07/30/2019

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.



Revision Date: 07/30/2019

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)

Chemical Identity OSHA hazard(s)

Benzene respiratory tract irritation

Central nervous system

Blood Skin

Flammability Cancer Aspiration Eye

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	Reportable quantity
2-Propanone	lbs. 5000
Propane	lbs. 100
Butane	lbs. 100
Heptane	lbs. 100
Acetic acid, methyl ester	lbs. 100
Methane, 1,1'-oxybis-	lbs. 100
Methanol	lbs. 5000
Benzene, methyl-	lbs. 1000
Benzene	lbs. 10
Benzene, (1-methylethyl)-	lbs. 5000
Benzene, ethyl-	lbs. 1000
1,2-Benzenedicarboxylic	lbs. 1000
acid, 1,2-diethyl ester	

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Fire Hazard

Immediate (Acute) Health Hazards

Flammable aerosol

Skin Corrosion/Irritation

Serious Eye Damage/Eye Irritation

Skin sensitizer

Specific Target Organ Toxicity - Single Exposure

SARA 302 Extremely Hazardous Substance

Reportable

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

2-Propanone

Acetic acid, methyl ester

SARA 304 Emergency Release Notification

Chemical Identity	Reportable quantity
2-Propanone	lbs. 5000
Propane	lbs. 100
Butane	lbs. 100
Heptane	lbs. 100
Acetic acid, methyl ester	lbs. 100
Methane, 1,1'-oxybis-	lbs. 100



Revision Date: 07/30/2019

Methanol	lbs. 5000
Benzene, methyl-	lbs. 1000
Benzene	lbs. 10
Benzene, (1-methylethyl)-	lbs. 5000
Benzene, ethyl-	lbs. 1000
1,2-Benzenedicarboxylic	lbs. 1000
acid, 1,2-diethyl ester	

SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
2-Propanone	10000 lbs
Propane	10000 lbs
Butane	10000 lbs
Heptane, branched, cyclic	10000 lbs
and linear	
Heptane	10000 lbs
Naphtha (petroleum),	10000 lbs
hydrotreated light	
Solvent naphtha	10000 lbs
(petroleum), light aliph.	
Acetic acid, methyl ester	10000 lbs
Maleic Anhydride Modified	10000 lbs
Liquid Polyisoprene	
Benzene, 1-chloro-4-	10000 lbs
(trifluoromethyl)-	
Methanol	10000 lbs
Benzene, methyl-	10000 lbs
Benzene	10000 lbs
Benzene, (1-methylethyl)-	10000 lbs
Benzene, ethyl-	10000 lbs
2,6-Octadienal, 3,7-	10000 lbs
dimethyl-	
1,2-Benzenedicarboxylic	10000 lbs
acid, 1,2-diethyl ester	

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.

Methanol	Developmental toxin. 03 2012
Benzene, methyl-	Developmental toxin. 03 2008
Benzene	Developmental toxin. 03 2008
Benzene	Carcinogenic. 05 2011
Benzene	Male reproductive toxin. 03 2008
Benzene, (1-methylethyl)-	Carcinogenic. 05 2011
Benzene, ethyl-	Carcinogenic. 05 2011
1,6-Octadiene, 7-methyl-3-	Carcinogenic. 03 2015
methylene-	



Revision Date: 07/30/2019

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

Chemical Identity

2-Propanone

Propane

Butane

Naphtha (petroleum), hydrotreated light

Solvent naphtha (petroleum), light aliph.

Heptane

Acetic acid, methyl ester

Methane, 1,1'-oxybis-

Benzene, 1-chloro-4-(trifluoromethyl)-

US. Massachusetts RTK - Substance List

Chemical Identity

Benzene

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

2-Propanone

Propane

Butane

Naphtha (petroleum), hydrotreated light

Solvent naphtha (petroleum), light aliph.

Heptane

Acetic acid, methyl ester

Methane, 1,1'-oxybis-

US. Rhode Island RTK

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

International regulations

Montreal protocol

2-Propanone

Acetic acid, methyl ester

Stockholm convention

2-Propanone

Acetic acid, methyl ester

Rotterdam convention

2-Propanone

Acetic acid, methyl ester

Kyoto protocol



Revision Date: 07/30/2019

Inventory Status:

Australia AICS: Not in compliance with the inventory.

Canada DSL Inventory List: Not 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.

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.

US TSCA Inventory: On or in compliance with the inventory

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

Issue Date: 07/30/2019

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.