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# SAFETY DATA SHEET

# 1. Identification

Product identifier: TOP BOND WEB PREMIUM PALLET ADHESIVE

Other means of identification

**SDS number:** RE1000002746

Recommended restrictions

Product use: Adhesive

Restrictions on use: Not known.

#### Manufacturer/Importer/Distributor Information

#### Manufacturer

Company Name: CHEMICAL CONSULTANTS INC Address: 1850 WILD TURKEY CIRCLE

CORONA, CA 92880

Telephone:

Fax:

Emergency telephone number: 1-866-836-8855

# 2. Hazard(s) identification

#### **Hazard Classification**

#### **Physical Hazards**

Flammable aerosol Category 1

#### **Health Hazards**

Serious Eye Damage/Eye Irritation Category 2A
Toxic to reproduction Category 2
Specific Target Organ Toxicity - Category 3<sup>1</sup>

Single Exposure

#### **Target Organs**

1. Narcotic effect.

#### **Environmental Hazards**

Acute hazards to the aquatic Category 3 environment

#### **Label Elements**

# **Hazard Symbol:**



Signal Word: Danger

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**Hazard Statement:** Extremely flammable aerosol.

Causes serious eye irritation.

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. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. 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 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	20 - <50%
Propane	74-98-6	20 - <50%
Naphtha (petroleum), hydrotreated light	64742-49-0	10 - <25%
White mineral oil (petroleum)	8042-47-5	1 - <5%
Hexane	110-54-3	0.1 - <1%
Pentane	109-66-0	0.1 - <1%

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### 4. First-aid measures

**Ingestion:** Rinse mouth thoroughly.

**Inhalation:** Move to fresh air.

**Skin Contact:** Remove contaminated clothing and wash the skin thoroughly with soap and

water after work.

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**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. 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. 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

Absorb spill with vermiculite or other inert material, then place in a container

upwind.

Methods and material for containment and cleaning up:

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

Notification Procedures: Prevent entry into waterwa

Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate

area). Stop leak if you can do so without risk.

**Environmental Precautions:** Avoid release to the environment. Prevent further leakage or spillage if safe

to do so. Do not contaminate water sources or sewer.

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# 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.

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	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)	
	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)	
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)	
	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)	
White mineral oil (petroleum) - Mist.	REL		5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)	
	PEL		5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)	
	STEL		10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)	
	TWA		5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)	
White mineral oil (petroleum) - Inhalable fraction.	TWA		5 mg/m3	US. ACGIH Threshold Limit Values (01 2010)	
White mineral oil (petroleum) -	TWA PEL		5 mg/m3	US. California Code of Regulations, Title 8,	

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Mist.				Section 5155. Airborne Contaminants (09 2006)
	TWA		5 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
White mineral oil (petroleum) - Vapor.	AN ESL		100 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	ST ESL		1,000 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
Hexane	TWA PEL	50 ppm	180 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
	TWA	50 ppm	180 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	TWA	50 ppm	180 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	PEL	500 ppm	1,800 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	REL	50 ppm	180 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA	50 ppm		US. ACGIH Threshold Limit Values (2008)
	AN ESL		200 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	ST ESL		6,200 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	AN ESL		57 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	ST ESL		1,700 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
Pentane	TWA	1,000 ppm		US. ACGIH Threshold Limit Values (02 2014)
	Ceil_Time	610 ppm	1,800 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	REL	120 ppm	350 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	1,000 ppm	2,950 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	600 ppm	1,800 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	750 ppm	2,250 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	600 ppm	1,800 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	STEL	750 ppm	2,250 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	TWA PEL	600 ppm	1,800 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
	ST ESL		59,000 μg/m3	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)
	AN ESL		2,400 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	ST ESL		20,000 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)

**Biological Limit Values** 

biological Ellilit Values					
Chemical Identity	Exposure Limit Values	Source			
2-Propanone (acetone: Sampling time: End of shift.)	25 mg/l (Urine)	ACGIH BEL (03 2015)			
Hexane (2,5-Hexanedion, without hydrolysis: Sampling time: End of shift.)	0.5 mg/l (Urine)	ACGIH BEL (03 2018)			

# 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.

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**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. Do not handle until all safety precautions have been

read and understood. Obtain special instructions before use.

# 9. Physical and chemical properties

#### **Appearance**

Physical state: liquid
Form: Aerosols

Color:

No data available.

Odor:

No data available.

No data available.

No data available.

No data available.

Melting point/freezing point:

No data available.

Initial boiling point and boiling range:

No data available.

Flash Point: -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 (%):

Flammability limit - lower (%):

No data available.

Explosive limit - upper (%):

No data available.

Explosive limit - lower (%):

No data available.

No data available.

**Vapor pressure:** 3,378.4 - 4,757.4 hPa (20 °C)

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

Solubility(ies)

Solubility in water:

Solubility (other):

No data available.

No data available.

No data available.

No data available.

Auto-ignition temperature:No data available.Decomposition temperature:No data available.Viscosity:No data available.

# 10. Stability and reactivity

**Reactivity:** No data available.

Chemical Stability: Material is stable under normal conditions.

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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.

Eve 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.

No data available. Ingestion:

#### 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

Naphtha (petroleum),

hydrotreated light

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

White mineral oil

(petroleum)

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

Hexane LD 50: > 2,000 mg/kg

Pentane LD 50 (Rat): > 2,000 mg/kg

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

LD 50 (Rat): > 5,000 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

Naphtha (petroleum), hydrotreated light

LD 50 (Rabbit): > 3,750 mg/kg

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White mineral oil (petroleum)

LD 50 (Rabbit): > 2,000 mg/kg

Hexane LD 50 (Rabbit): > 2,000 mg/kg

Pentane LD 50: > 2,000 mg/kg

Inhalation

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

Specified substance(s):

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

LC 50: > 5 mg/l

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

Naphtha (petroleum), hydrotreated light LC 50 (Rat): > 7,630 mg/m3

LC 50: > 5 mg/l

White mineral oil LC 50 (Rat): > 5 mg/l (petroleum) LC 50: > 20 mg/l

Hexane LC 50 (Rat): > 31.86 mg/l

LC 50: > 5 mg/l

Pentane LC 50 (Rat): > 25.3 mg/l

LC 50: > 5 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

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

NOAEL (Rat(Female, Male), Oral, 90 d): >= 20,000 ppm(m) Oral

Experimental result, Key study

White mineral oil

(petroleum) Experimental result, Key study

NOAEL (Rabbit(Female, Male), Dermal): 1,000 mg/kg Dermal Read-across from supporting substance (structural analogue or surrogate), Key study LOAEL (Rat(Female, Male), Inhalation): 210 mg/m3 Inhalation Experimental

result, Key study

Hexane NOAEL (Mouse(Male), Inhalation, 13 Weeks): 500 ppm(m) Inhalation

Experimental result, Key study

LOAEL (Mouse(Male), Inhalation, 13 Weeks): 1,000 ppm(m) Inhalation

Experimental result, Key study

LOAEL (Rat(Male), Inhalation, 16 Weeks): 3,000 ppm(m) Inhalation

Experimental result, Key study

LOAEL (Mouse(Female), Inhalation, 13 Weeks): 500 ppm(m) Inhalation

Experimental result, Key study

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LOAEL (Rat(Male), Inhalation): 3,000 ppm(m) Inhalation Experimental Pentane

result, Supporting study

NOAEL (Rat, Inhalation): 3,000 ppm(m) Inhalation Experimental result,

Supporting study

NOAEL (Rat, Inhalation): 30 mg/l Inhalation Read-across based on grouping

of substances (category approach), Key study

NOAEL (Rat(Female, Male), Inhalation, 13 Weeks); >= 6.646 ppm(m) Inhalation Read-across based on grouping of substances (category

approach). Kev study

NOAEL (Rat(Female, Male), Inhalation): 20,000 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

White mineral oil (petroleum)

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

Pentane in vivo (Rabbit): Not classified as an 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

Naphtha (petroleum).

hydrotreated light

Rabbit, 24 - 72 hrs: Not irritating

White mineral oil

(petroleum)

Rabbit, 24 - 72 hrs: Not irritating

Hexane Rabbit, 1 - 72 hrs: Not irritating

Pentane Rabbit, 48 hrs: Not irritating

Rabbit, 24 hrs: Not irritating Rabbit, 1 hrs: Not irritating Rabbit, 1 hrs: Not irritating

**Respiratory or Skin Sensitization** 

Product: No data available.

Specified substance(s):

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

hydrotreated light White mineral oil

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

(petroleum)

Pentane 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

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#### **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):

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

# **Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.

Specified substance(s):

Hexane Inhalation - vapor: Nervous System - Category 2

**Target Organs** 

Specific Target Organ Toxicity - Single Exposure: Narcotic effect.

**Aspiration Hazard** 

**Product:** No data available.

Specified substance(s):

Naphtha (petroleum),

May be fatal if swallowed and enters airways.

hydrotreated light

White mineral oil (petroleum)

May be fatal if swallowed and enters airways.

Hexane

May be fatal if swallowed and enters airways.

Other effects: No data available.

# 12. Ecological information

# **Ecotoxicity:**

# Acute hazards to the aquatic environment:

Fish

**Product:** No data available.

Specified substance(s):

2-Propanone LC 50 (Oncorhynchus mykiss, 96 h): 5,540 mg/l Experimental result, Key

study

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

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Naphtha (petroleum),

hydrotreated light

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

White mineral oil

(petroleum)

NOAEL (Oncorhynchus mykiss, 96 h): >= 100 mg/l Experimental result, Key

study

LL 50 (Oncorhynchus mykiss. 96 h); > 100 mg/l Experimental result. Key

study

Hexane LC 50 (Fathead minnow (Pimephales promelas), 96 h): 2.101 - 2.981 mg/l

Mortality

Pentane NOAEL (Oncorhynchus kisutch, 96 h): > 100 mg/l Experimental result,

Weight of Evidence study

LL 50 (Oncorhynchus mykiss, 96 h): 27.55 mg/l QSAR QSAR, Key study LC 50 (Oncorhynchus mykiss, 96 h): 4.26 mg/l Experimental result,

Supporting 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

Naphtha (petroleum), hydrotreated light

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

White mineral oil

(petroleum)

NOAEL (Daphnia magna, 48 h): >= 100 mg/l Experimental result, Kev studv

EC 50 (Daphnia magna, 48 h): 21.85 mg/l QSAR QSAR, Key study Hexane

LC 50 (Water flea (Daphnia magna), 24 h): > 50 mg/l Mortality

EC 50 (Daphnia magna, 48 h): 48.11 mg/l QSAR QSAR, Key study Pentane

> EC 50 (Daphnia magna, 48 h): 2.8 mg/l QSAR QSAR, Supporting study EC 50 (Daphnia magna, 48 h): 2.7 mg/l Experimental result, Supporting

study

EC 50 (Daphnia magna, 48 h): 9.1 mg/l Experimental result, Supporting

study

Chronic hazards to the aquatic environment:

Fish

**Product:** No data available.

Specified substance(s):

Naphtha (petroleum). hydrotreated light

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

White mineral oil (petroleum)

NOAEL (Oncorhynchus mykiss): >= 1,000 mg/l QSAR QSAR, Supporting study

Hexane NOAEL (Oncorhynchus mykiss): 2.8 mg/l QSAR QSAR, Key study

Pentane NOAEL (Oncorhynchus mykiss): 6.165 mg/l QSAR QSAR, Key study

**Aquatic Invertebrates** 

Product: No data available.

Specified substance(s):

2-Propanone LOAEL (Daphnia magna): 2,212 mg/l Experimental result, Key study

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NOAEL (Daphnia magna): 2,212 mg/l Experimental result, 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

White mineral oil (petroleum)

NOAEL (Daphnia magna): >= 1,000 mg/l QSAR QSAR, Supporting study

Hexane NOAEL (Daphnia magna): 4.888 mg/l QSAR QSAR, Key study

Pentane NOAEL (Daphnia magna): 10.76 mg/l QSAR QSAR, 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

Naphtha (petroleum), hydrotreated light

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

White mineral oil (petroleum)

31 % (28 d) Detected in water. Read-across from supporting substance

(structural analogue or surrogate), Supporting study

Hexane 81 % Detected in water. Read-across based on grouping of substances

(category approach), Key study

Pentane 87 % Detected in water. Experimental result, Key study

3 % Detected in water. Experimental result, Key study 48.8 % Detected in water. Experimental result, Key study

71.43 % (28 d) Detected in water. Read-across based on grouping of

substances (category approach), Supporting study 65.5 % 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

Naphtha (petroleum), hydrotreated light

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

calculation, Key study

Hexane Pimephales promelas, Bioconcentration Factor (BCF): 501.19 Aquatic

sediment QSAR, Key study

Pentane Pimephales promelas, Bioconcentration Factor (BCF): 171 Aquatic sediment

QSAR, Key study

Revision Date: 08/02/2019

#### 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 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

**Mobility in soil:** No data available.

Known or predicted distribution to environmental compartments

2-Propanone No data available. Propane No data available. Naphtha (petroleum), No data available.

hydrotreated light

White mineral oil No data available.

(petroleum)

Hexane No data available.
Pentane No data available.

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

# 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.

Revision Date: 08/02/2019

#### **IATA**

UN Number: UN 1950

Proper Shipping Name: Aerosols, flammable

Transport Hazard Class(es):

Class: 2.1
Label(s): Packing Group: -

Environmental Hazards: No Marine Pollutant No

Special precautions for user: Not regulated.

# 15. Regulatory information

#### **US Federal Regulations**

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

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

None present or none present in regulated quantities.

#### CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	Reportable quantity
2-Propanone	lbs. 5000
Propane	lbs. 100
Methane, 1,1'-oxybis-	lbs. 100
Hexane	lbs. 5000
Pentane	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

Toxic to reproduction

Specific Target Organ Toxicity - Single Exposure

# SARA 302 Extremely Hazardous Substance

**Reportable** 

Chemical Identity quantity Threshold Planning Quantity

2-Propanone Hexane

# SARA 304 Emergency Release Notification

Chemical IdentityReportable quantity2-PropanoneIbs. 5000PropaneIbs. 100Methane, 1,1'-oxybis-Ibs. 100HexaneIbs. 5000PentaneIbs. 100

# SARA 311/312 Hazardous Chemical

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

2-Propanone 10000 lbs Propane 10000 lbs Naphtha (petroleum), 10000 lbs

hydrotreated light

White mineral oil 10000 lbs

Revision Date: 08/02/2019

(petroleum)

Hexane 10000 lbs Pentane 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.

Hexane Male reproductive toxin. 12 2017

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

# **Chemical Identity**

2-Propanone

Propane

Naphtha (petroleum), hydrotreated light

Methane, 1,1'-oxybis-

White mineral oil (petroleum)

#### **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

Naphtha (petroleum), hydrotreated light

Methane, 1,1'-oxybis-

White mineral oil (petroleum)

#### US. Rhode Island RTK

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

# International regulations

# Montreal protocol

2-Propanone Hexane

#### Stockholm convention

2-Propanone - - Hexane - -

#### Rotterdam convention

2-Propanone - - Hexane - -

#### **Kyoto protocol**

Revision Date: 08/02/2019

**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:

On or in compliance with the inventory

Korea Existing Chemicals Inv. (KECI): On or 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: 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: 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:** 08/02/2019

**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.