

Revision Date: 08/28/2019

SAFETY DATA SHEET

1. Identification

Product identifier: INTERIOR DETAILER

Other means of identification

SDS number: RE1000011758

Recommended restrictions

Product Use: Coating

Restrictions on use: Not known.

Manufacturer/Importer/Distributor Information

Manufacturer

Company Name: Sprayway, Inc.

Address: 1000 INTEGRAM DR.

Pacific, MO 63069

Telephone: 1-630-628-3000

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
Toxic to reproduction Category 2
Specific Target Organ Toxicity - Category 3¹

Single Exposure

Specific Target Organ Toxicity - Category 2

Repeated Exposure

Aspiration Hazard Category 1

Target Organs

Narcotic effect.

Environmental Hazards

Acute hazards to the aquatic Category 2

environment

Chronic hazards to the aquatic Category 3

environment

Label Elements



Revision Date: 08/28/2019

Hazard Symbol:



Signal Word: Danger

Hazard Statement: Extremely flammable aerosol.

Causes skin irritation.

Suspected of damaging fertility or the unborn child.

May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure.

May be fatal if swallowed and enters airways.

Toxic to aquatic life.

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. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid release to the

environment.

Response: IF INHALED: Remove person to fresh air and keep comfortable for

breathing. IF ON SKIN: Wash with plenty of water/... If skin irritation occurs: Get medical advice/attention. IF SWALLOWED: Immediately call a POISON

CENTER/doctor/... Do NOT induce vomiting. Call a POISON

CENTER/doctor if you feel unwell. Specific treatment (see on this label).

Take off contaminated clothing.

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



Revision Date: 08/28/2019

Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Propane	74-98-6	20 - <50%
Butane	106-97-8	20 - <50%
Hexane	110-54-3	10 - <25%
Naphtha (petroleum), hydrotreated light	64742-49-0	10 - <25%
Siloxanes and Silicones, di-Me	63148-62-9	5 - <10%
2-Propanone	67-64-1	5 - <10%
Cyclohexane	110-82-7	0.1 - <1%
Heptane	142-82-5	0.1 - <1%
1,2-Benzenedicarboxylic acid, 1,2-diethyl ester	84-66-2	0.1 - <1%
Solvent naphtha (petroleum), light aliph.	64742-89-8	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: Rinse mouth. Call a physician or poison control center immediately. Never

give liquid to an unconscious person. If vomiting occurs, keep head low so

that stomach content doesn't get into the lungs.

Inhalation: Move to fresh air.

Skin Contact: Immediately flush with plenty of water for at least 15 minutes while

removing contaminated clothing and shoes. Wash contaminated clothing

before reuse. 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.



Revision Date: 08/28/2019

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media:

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

Specific hazards arising from

the chemical:

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

back.

Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

No data available.

Special protective equipment

for fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in

enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind. See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

Methods and material for containment and cleaning up:

Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Dike far ahead of larger spill for later recovery and disposal.

Notification Procedures:

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

Environmental Precautions:

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:

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

Conditions for safe storage, including any incompatibilities:

Store locked up. 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

SDS_US - RE1000011758



Revision Date: 08/28/2019

8. Exposure controls/personal protection

Control Parameters

Chemical Identity	Туре	Exposure Lir	nit Values	Source
Propane	REL		1,800 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	1,000 ppm	1,800 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	1,000 ppm	1,800 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000)
Butane	REL	800 ppm	1,900 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	STEL	1,000 ppm		US. ACGIH Threshold Limit Values (03 2018)
	TWA	800 ppm	1,900 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Hexane	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)
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)
<i>y</i>	REL	100 ppm	400 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	TWA	100 ppm	400 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
2-Propanone	STEL	1,000 ppm	2,400 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	PEL	1,000 ppm	2,400 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	250 ppm		US. ACGIH Threshold Limit Values (03 2015)
	TWA	750 ppm	1,800 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	500 ppm		US. ACGIH Threshold Limit Values (03 2015)
	REL	250 ppm	590 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
Cyclohexane	TWA	100 ppm		US. ACGIH Threshold Limit Values (2008)
	TWA	300 ppm	1,050 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	REL	300 ppm	1,050 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	300 ppm	1,050 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Heptane	TWA	400 ppm	1,600 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	REL	85 ppm	350 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	500 ppm	2,000 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	STEL	500 ppm	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)
	Ceil_Time	440 ppm	1,800 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
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		5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000)



Revision Date: 08/28/2019

	1			(1989)
Solvent naphtha (petroleum), light aliph.	REL	100 ppm	400 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	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)
Benzene, dimethyl-	STEL	150 ppm	655 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	100 ppm	435 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	100 ppm		US. ACGIH Threshold Limit Values (2008)
	REL	100 ppm	435 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2016)
	PEL	100 ppm	435 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	STEL	150 ppm		US. ACGIH Threshold Limit Values (2008)
	STEL	150 ppm	655 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2016)
Acetic acid, pentyl ester	REL	100 ppm	525 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA	50 ppm		US. ACGIH Threshold Limit Values (2008)
	STEL	100 ppm		US. ACGIH Threshold Limit Values (2008)
	PEL	100 ppm	525 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	100 ppm	525 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Benzene, methyl-	STEL	150 ppm	560 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	REL	100 ppm	375 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA	100 ppm	375 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	Ceiling	300 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	TWA	20 ppm		US. ACGIH Threshold Limit Values (2008)
	TWA	200 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	MAX. CONC	500 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	STEL	150 ppm	560 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
Benzene, ethyl-	STEL	125 ppm	545 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	REL	100 ppm	435 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	100 ppm	435 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	STEL	125 ppm	545 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	100 ppm	435 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	20 ppm		US. ACGIH Threshold Limit Values (12 2010)
Acetic acid ethyl ester	TWA	400 ppm		US. ACGIH Threshold Limit Values (2008)
	REL	400 ppm	1,400 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	400 ppm	1,400 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	400 ppm	1,400 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Benzene	REL	0.1 ppm		US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA	1 ppm		US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	Ceiling	25 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)



Revision Date: 08/28/2019

	STEL	1 ppm		US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA	0.5 ppm		US. ACGIH Threshold Limit Values (2008)
	STEL	5 ppm		US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	1 ppm		US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006)
	STEL	2.5 ppm		US. ACGIH Threshold Limit Values (2008)
	STEL	5 ppm		US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006)
	OSHA_AC T	0.5 ppm		US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006)
	TWA	10 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	MAX. CONC	50 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
Naphthalene	PEL	10 ppm	50 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	10 ppm	50 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	10 ppm		US. ACGIH Threshold Limit Values (2008)
	STEL	15 ppm	75 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	REL	10 ppm	50 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	STEL	15 ppm	75 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)

Biological Limit Values

Chemical Identity	Exposure Limit Values	Source
Hexane (2,5-Hexanedion, without hydrolysis: Sampling time: End of shift.)	0.5 mg/l (Urine)	ACGIH BEL (03 2018)
2-Propanone (acetone: Sampling time: End of shift.)	25 mg/l (Urine)	ACGIH BEL (03 2015)
Benzene, dimethyl- (Methylhippuric acids: Sampling time: End of shift.)	1.5 g/g (Creatinine in urine)	ACGIH BEL (03 2013)
Benzene, methyl- (toluene: Sampling time: End of shift.)	0.03 mg/l (Urine)	ACGIH BEL (03 2013)
Benzene, methyl- (o-Cresol, with hydrolysis: Sampling time: End of shift.)	0.3 mg/g (Creatinine in urine)	ACGIH BEL (03 2013)
Benzene, methyl- (toluene: Sampling time: Prior to last shift of work week.)	0.02 mg/l (Blood)	ACGIH BEL (03 2013)
Benzene, ethyl- (Sum of mandelic acid and phenylglyoxylic acid: Sampling time: End of shift.)	0.15 g/g (Creatinine in urine)	ACGIH BEL (02 2014)
Benzene (t,t-Muconic acid: Sampling time: End of shift.)	500 μg/g (Creatinine in urine)	ACGIH BEL (03 2013)
Benzene (S- Phenylmercapturic acid: Sampling time: End of shift.)	25 μg/g (Creatinine in urine)	ACGIH BEL (03 2013)

Appropriate Engineering Controls

No data available.



Revision Date: 08/28/2019

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

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. When using do not smoke. Do

not handle until all safety precautions have been read and understood. Obtain special instructions before use. Wash contaminated clothing before reuse. Avoid contact with skin. Wash hands before breaks and immediately

after handling the product.

9. Physical and chemical properties

Appearance

Physical state: liquid

Form: Spray Aerosol
Color: No data available.

Odor: No data available.

Odor threshold: No data available.

PH: No data available.

Melting point/freezing point: No data available.

Initial boiling point and boiling range: Estimated 56.05 °C

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 (%): 11.2 %(V)
Flammability limit - lower (%): 2.3 %(V)

Explosive limit - upper (%):

Explosive limit - lower (%):

Vapor pressure:

No data available.

No data available.



Revision Date: 08/28/2019

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

Solubility(ies)

Solubility in water:

Solubility (other):

Partition coefficient (n-octanol/water):

No data available.

No data available.

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

10. Stability and reactivity

Reactivity: No data available.

Chemical Stability: Material is stable under normal conditions.

Possibility of hazardous

reactions:

No data available.

Conditions to avoid: Avoid heat or contamination.

Incompatible Materials: No data available.

Hazardous Decomposition

Products:

No data available.

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.



Revision Date: 08/28/2019

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):

Hexane LD 50: > 2,000 mg/kg

Naphtha (petroleum), hydrotreated light

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

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

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

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

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

LD 50 (Mouse): 2,500 mg/kg

Solvent naphtha (petroleum), light aliph.

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

Dermal

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

Specified substance(s):

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

Naphtha (petroleum), hydrotreated light

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

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

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

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

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

LD 50: > 2,000 mg/kg

Solvent naphtha L (petroleum), light aliph.

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

Inhalation



Revision Date: 08/28/2019

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

Specified substance(s):

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

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

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

LC 50: > 5 mg/l

Naphtha (petroleum), LOAEL (Human): 2,400 mg/m3 hydrotreated light LC 50 (Rat): > 7,630 mg/m3

LC 50: > 5 mg/l

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

LC 50: > 5 mg/l

Cyclohexane LC 50 (Rat): > 32,880 mg/m3

Heptane LC 50 (Rat): > 29.29 mg/l

1,2-Benzenedicarboxylic LC 50: > 20 mg/l acid, 1,2-diethyl ester LC 50: > 5 mg/l

Solvent naphtha LOAEL (Human): 4,320 mg/m3

(petroleum), light aliph. LC 50: 5.6 mg/l LC 50: > 20 mg/l

Repeated dose toxicity

Product: No data available.

Specified substance(s):

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

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



Revision Date: 08/28/2019

Experimental result, Key study

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

Experimental result, Key study

NOAEL (Rat(Male), Oral, 13 Weeks): 10,000 ppm(m) Oral Experimental 2-Propanone

result. Kev study

NOAEL (Rat(Female, Male), Inhalation, 13 - 18 Weeks): 7,000 ppm(m) Cyclohexane

Inhalation Experimental result, Key study

NOAEL (Mouse(Female, Male), Inhalation, 13 - 18 Weeks): 500 ppm(m)

Inhalation Experimental result. Key study

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

result. Kev study

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

(petroleum), light aliph.

Solvent naphtha

NOAEL (Rat(Female, Male), Oral, 6 - 16 Weeks): 150 mg/kg Oral

Experimental result, Key study

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

Skin Corrosion/Irritation

Product: No data available.

Specified substance(s):

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

Cyclohexane Review (Various): Irritating.

in vivo (Rabbit): Not irritant Experimental result, Weight of Evidence study

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

(category approach), Key study

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

Benzenedicarboxylic acid, 1,2-diethyl ester

Serious Eye Damage/Eye Irritation

Product: No data available.

Specified substance(s):

Hexane Rabbit, 1 - 72 hrs: Not irritating

Naphtha (petroleum), hydrotreated light

Rabbit, 24 - 72 hrs: Not irritating



Revision Date: 08/28/2019

2-Propanone Irritating.

Rabbit, 24 hrs: Minimum grade of severe eye irritant

Heptane Rabbit, 24 - 72 hrs: Not irritating

Solvent naphtha

(petroleum), light aliph.

Rabbit: Not irritating

Respiratory or Skin Sensitization

Product: No data available.

Specified substance(s):

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

hydrotreated light

2-Propanone Skin sensitization:, in vivo (Guinea pig): Non sensitising Cyclohexane Skin sensitization:, in vivo (Guinea pig): Non sensitising Skin sensitization:, in vivo (Guinea pig): Non sensitising 1,2- Skin sensitization:, in vivo (Guinea pig): Non sensitising

Benzenedicarboxylic

acid, 1,2-diethyl ester

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

(petroleum), light aliph.

Carcinogenicity

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

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

No carcinogenic components identified

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

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product: No data available.

In vivo

Product: No data available.

Reproductive toxicity

Product: No data available.

Specified substance(s):

Hexane Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specified substance(s):



Revision Date: 08/28/2019

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

Heptane 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):

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

hydrotreated light

Cyclohexane May be fatal if swallowed and enters airways.
Heptane May be fatal if swallowed and enters airways.
Solvent naphtha May be fatal if swallowed and enters airways.

(petroleum), light aliph.

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

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

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

Mortality

Naphtha (petroleum),

hydrotreated light

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

Siloxanes and Silicones,

di-Me

LC 50 (Redear sunfish (Lepomis microlophus), 96 h): 26.27 - 56.73 mg/l

Mortality

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

SDS_US - RE1000011758



Revision Date: 08/28/2019

study

Cyclohexane LC 50 (Pimephales promelas, 96 h): 4.53 mg/l Experimental result, Key

study

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

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

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

study

LC 50 (Oncorhynchus mykiss, 96 h): 12 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

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

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

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

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

Naphtha (petroleum), hydrotreated light

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

Siloxanes and Silicones,

di-Me

LC 50 (Water flea (Daphnia magna), 48 h): 44.5 mg/l Mortality

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

Cyclohexane EC 50 (Daphnia magna, 48 h): 0.9 mg/l Experimental result, Key study

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

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

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

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

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

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

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

Solvent naphtha (petroleum), light aliph.

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



Revision Date: 08/28/2019

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

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

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 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

1,2-Benzenedicarboxylic

acid, 1,2-diethyl ester

NOAEL (Daphnia magna): 25 mg/l Experimental result, Key study

Solvent naphtha (petroleum), light aliph. EC 50 (Daphnia magna): > 40 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):

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

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

(category approach), Key study

Naphtha (petroleum), hydrotreated light

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

2-Propanone 90.9 % (28 d) Detected in water. Experimental result, Key study

Cyclohexane 77 % (28 d) Detected in water. Experimental result, Key study

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

1,2-Benzenedicarboxylic

acid, 1,2-diethyl ester

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



Revision Date: 08/28/2019

Solvent naphtha 89 % (28 d) Detected in water. Experimental result, Supporting study (petroleum), light aliph. 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 14.80 % Detected in water. Experimental result. Supporting study

14.89 % Detected in water. Experimental result, Supporting study

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Specified substance(s):

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

sediment QSAR, Key study

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

hydrotreated light calculation, Key study

2-Propanone Haddock, adult, Bioconcentration Factor (BCF): 0.69 Aquatic sediment

Experimental result, Not specified

Cyclohexane Cyprinus carpio, Bioconcentration Factor (BCF): 37 - 129 Aquatic sediment

Experimental result, Supporting study

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

calculation, Key study

1,2-Benzenedicarboxylic

acid, 1,2-diethyl ester

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

through)

Solvent naphtha

(petroleum), light aliph.

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

calculation, Key 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

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments



Revision Date: 08/28/2019

Propane No data available.
Butane No data available.
Hexane No data available.
Naphtha (petroleum), No data available.

hydrotreated light

Siloxanes and Silicones, di-

Me

No data available.

2-Propanone No data available.
Cyclohexane No data available.
Heptane No data available.
1,2-Benzenedicarboxylic No data available.

acid, 1,2-diethyl ester

acid, 1,2-diethyl ester Solvent naphtha

(petroleum), light aliph.

No data available.

Other adverse effects: Toxic to aquatic organisms. 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.: F-D, S-U

Packing Group: -

Environmental Hazards: Yes Marine Pollutant No



Revision Date: 08/28/2019

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: Yes Marine Pollutant No

Special precautions for user: Not regulated.

Cargo aircraft only: Allowed.

15. Regulatory information

US Federal Regulations

Restrictions on use: Not known.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Chemical Identity OSHA hazard(s)

Benzene respiratory tract irritation

Central nervous system

Blood Skin

Flammability Cancer Aspiration Eye



Revision Date: 08/28/2019

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	Reportable quantity
Propane	lbs. 100
Butane	lbs. 100
Hexane	lbs. 5000
Cyclopentane, methyl-	lbs. 100
2-Propanone	lbs. 5000
Cyclohexane	lbs. 1000
Heptane	lbs. 100
1,2-Benzenedicarboxylic	lbs. 1000
acid, 1,2-diethyl ester	
Benzene, dimethyl-	lbs. 100
Acetic acid, pentyl ester	lbs. 5000
Benzene, methyl-	lbs. 1000
Butanoic acid, ethyl ester	lbs. 100
Benzene, ethyl-	lbs. 1000
Acetic acid ethyl ester	lbs. 5000
Benzene	lbs. 10
Naphthalene	lbs. 100

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Fire Hazard

Immediate (Acute) Health Hazards Delayed (Chronic) Health Hazard

Flammable aerosol

Skin Corrosion/Irritation

Toxic to reproduction

Specific Target Organ Toxicity - Single Exposure

Specific Target Organ Toxicity - Repeated Exposure

Aspiration Hazard

SARA 302 Extremely Hazardous Substance

Reportable quantity

Chemical Identity
Hexane

2-Propanone Terpenes and

Terpenoids, lemon-oil

Threshold Planning Quantity



Revision Date: 08/28/2019

SARA 304 Emergency Release Notification

SARA 304 Eillergency Reie	ease Nounication
Chemical Identity	Reportable quantity
Propane	lbs. 100
Butane	lbs. 100
Hexane	lbs. 5000
Cyclopentane, methyl-	lbs. 100
2-Propanone	lbs. 5000
Cyclohexane	lbs. 1000
Heptane	lbs. 100
1,2-Benzenedicarboxylic	lbs. 1000
acid, 1,2-diethyl ester	
Benzene, dimethyl-	lbs. 100
Acetic acid, pentyl ester	lbs. 5000
Benzene, methyl-	lbs. 1000
Butanoic acid, ethyl ester	lbs. 100
Benzene, ethyl-	lbs. 1000
Acetic acid ethyl ester	lbs. 5000
Benzene	lbs. 10
Naphthalene	lbs. 100
Terpenes and	
Terpenoids, lemon-oil	

SARA 311/312 Hazardous Chemical

	Chemical Identity	Threshold Planning Quantity
	Propane	10000 lbs
	Butane	10000 lbs
	Hexane	10000 lbs
	Naphtha (petroleum),	10000 lbs
	hydrotreated light	
	Siloxanes and Silicones,	10000 lbs
	di-Me	
	2-Propanone	10000 lbs
	Cyclohexane	10000 lbs
	Heptane	10000 lbs
	1,2-Benzenedicarboxylic	10000 lbs
	acid, 1,2-diethyl ester	
	Solvent naphtha	10000 lbs
	(petroleum), light aliph.	
	Benzene, dimethyl-	10000 lbs
	Acetic acid, pentyl ester	10000 lbs
	Benzene, methyl-	10000 lbs
	Benzene, ethyl-	10000 lbs
	Acetic acid ethyl ester	10000 lbs
	Benzene	10000 lbs
	Naphthalene	10000 lbs
,	SARA 313 (TRI Reporting)	

	Reporting	Reporting threshold for
	threshold for	manufacturing and
<u>entity</u>	other users	processing

Chemical Ide Hexane lbs lbs.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3) **US State Regulations**



Revision Date: 08/28/2019

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
Benzene, methyl- Developmental toxin. 03 2008

Benzene, ethylBenzene
Carcinogenic. 05 2011
Developmental toxin. 03 2008

Benzene Carcinogenic. 05 2011

Benzene Male reproductive toxin. 03 2008

Naphthalene Carcinogenic. 05 2011

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

Chemical Identity

Propane

Butane Hexane

Naphtha (petroleum), hydrotreated light

Cyclopentane, methyl-

2-Propanone

US. Massachusetts RTK - Substance List

Chemical Identity

Benzene

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Propane

Butane

Hexane

Naphtha (petroleum), hydrotreated light

Cyclopentane, methyl-

2-Propanone

US. Rhode Island RTK

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

International regulations

Montreal protocol

Hexane

2-Propanone

Stockholm convention

Hexane - - 2-Propanone - -

Rotterdam convention

Hexane - - 2-Propanone - -

Kyoto protocol



Revision Date: 08/28/2019

Inventory Status:

Australia AICS: 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.

Not in compliance with the inventory. Canada NDSL Inventory:

Philippines PICCS: Not in compliance with the inventory.

New Zealand Inventory of Chemicals: Not in compliance with the inventory.

Not in compliance with the inventory. Japan ISHL Listing:

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.

Canada DSL Inventory List: On or 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: 08/28/2019

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.



Revision Date: 08/28/2019