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SAFETY DATA SHEET

1. Identification

Product identifier: CHEMICAL GUYS FACTORY FINISH TRIM COATING

Other means of identification

SDS number: RE1000028012

Recommended restrictions

Product use: Coating

Restrictions on use: Not known.

Manufacturer/Importer/Distributor Information

Manufacturer

Company Name: CHEMICAL GUYS MFG CO
Address: 14108 S WESTERN AVE
GARDENA, CA 90249

Telephone: 1-310-674-8135

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

Hazard Symbol:



Signal Word: Danger

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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

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

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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.

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.

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

Methods and material for containment and cleaning

for chemical waste.

up:

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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: 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

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Туре	Exposure	Limit Values	Source
Propane	REL	1,000 ppm	1,800 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	1,000 ppm	1,800 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	1,000 ppm	1,800 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Butane	REL	800 ppm	1,900 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	STEL	1,000 ppm		US. ACGIH Threshold Limit Values (03 2018)
	TWA	800 ppm	1,900 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
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)
	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)

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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) (1989)
Solvent naphtha (petroleum), light aliph.	REL	100 ppm	400 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
<u> </u>	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) US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	100 ppm	375 mg/m3	, , , ,
	Ceilin g	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. CON	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	1,400 mg/m3	US. ACGIH Threshold Limit Values (2008) US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	REL	400 ppm 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
Dannana	DEI	0.4		CFR 1910.1000) (02 2006) US. NIOSH: Pocket Guide to Chemical Hazards (2005)
Benzene	REL TWA	0.1 ppm 1 ppm		US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
		ı ppııı		00: 00: 11 (20 0: 11 10:10:100)
	Ceilin	25 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	Ceilin g TWA			
	g TWA	0.5 ppm		US. ACGIH Threshold Limit Values (2008)
	g			US. ACGIH Threshold Limit Values (2008) US. ACGIH Threshold Limit Values (2008) US. OSHA Specifically Regulated Substances (29 CFR
	g TWA STEL STEL OSH A_A	0.5 ppm 2.5 ppm		US. ACGIH Threshold Limit Values (2008) US. ACGIH Threshold Limit Values (2008)
	g TWA STEL STEL	0.5 ppm 2.5 ppm 5 ppm		US. ACGIH Threshold Limit Values (2008) US. ACGIH Threshold Limit Values (2008) US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006) US. OSHA Specifically Regulated Substances (29 CFR
	g TWA STEL STEL OSH A_A CT TWA	0.5 ppm 2.5 ppm 5 ppm 0.5 ppm		US. ACGIH Threshold Limit Values (2008) US. ACGIH Threshold Limit Values (2008) US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006) US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006)
	g TWA STEL STEL OSH A_A CT TWA	0.5 ppm 2.5 ppm 5 ppm 0.5 ppm		US. ACGIH Threshold Limit Values (2008) US. ACGIH Threshold Limit Values (2008) US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006) US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006) US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	g TWA STEL STEL OSH A_A CT TWA MAX. CON C	0.5 ppm 2.5 ppm 5 ppm 0.5 ppm 10 ppm 50 ppm		US. ACGIH Threshold Limit Values (2008) US. ACGIH Threshold Limit Values (2008) US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006) US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006) US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006) US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006) US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) US. OSHA Specifically Regulated Substances (29 CFR
	g TWA STEL STEL OSH A_A CT TWA MAX. CON C STEL	0.5 ppm 2.5 ppm 5 ppm 0.5 ppm 10 ppm 50 ppm		US. ACGIH Threshold Limit Values (2008) US. ACGIH Threshold Limit Values (2008) US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006) US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006) US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006) US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006) US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)

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	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

Jiological Ellint 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 (S-Phenylmercapturic acid: Sampling time: End of shift.)	25 μg/g (Creatinine in urine)	ACGIH BEL (03 2013)
Benzene (t,t-Muconic acid: Sampling time: End of shift.)	500 μg/g (Creatinine in urine)	ACGIH BEL (03 2013)

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

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.

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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.

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.

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.

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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):

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

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

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

1,2-Benzenedicarboxylic

acid, 1,2-diethyl ester

LD 50: > 2,000 mg/kg

Solvent naphtha

(petroleum), light aliph.

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

Inhalation

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

Specified substance(s):

Propane LC 50: > 100 mg/l

LC 50: > 100 mg/l

Butane LC 50: > 100 mg/l

LC 50: > 100 mg/l

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

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

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

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

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

> LOAEL (Human): 4,320 mg/m3 LC 50 (Rat): > 7,630 mg/m3

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

LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation **Butane**

Experimental result, Key study

NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 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

Experimental result, Key study

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

Experimental result, Key study

Naphtha (petroleum),

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

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, Key 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, Key study

NOAEL (Rat(Female, Male), Oral, 6 - 16 Weeks): 150 mg/kg Oral 1,2-Benzenedicarboxylic

Experimental result, Key study acid, 1,2-diethyl ester Solvent naphtha

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

(petroleum), light aliph.

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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

1,2- in vivo (Rabbit): Not irritant Experimental result, Key study

Benzenedicarboxylic acid, 1,2-diethyl ester

Solvent naphtha Assessment Non-Irritating

(petroleum), light aliph. in vivo (Rabbit): Irritating Experimental result, Key study

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

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

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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):

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

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

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

study

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

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

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

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

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

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

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

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Solvent naphtha (petroleum), light aliph.

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

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

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

(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

Solvent naphtha (petroleum), light aliph.

90.35 % (28 d) Detected in water. Experimental result, Supporting study 77.05 % Detected in water. Experimental result, Supporting study

BOD/COD Ratio

Product: No data available.

Revision Date: 10/02/2019

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),

hydrotreated light

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

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 - 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

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

hydrotreated light

Siloxanes and Silicones, di- No data available.

Me

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

acid, 1,2-diethyl ester

Solvent naphtha No data available.

(petroleum), light aliph.

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.

Revision Date: 10/02/2019

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: Ш 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

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

Flammability

Cancer Aspiration Eye Blood Skin

respiratory tract irritation Central nervous system

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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

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

Terpenes and

Terpenoids, lemon-oil

SARA 304 Emergency Release Notification

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	

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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 threshold for	Reporting threshold for manufacturing and
Chemical Identity	other users	processing
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**

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.

Male reproductive toxin. 12 2017 Hexane Developmental toxin. 03 2008 Benzene, methyl-Carcinogenic. 05 2011 Benzene, ethyl-Developmental toxin. 03 2008 Benzene Carcinogenic. 05 2011 Benzene Male reproductive toxin. 03 2008

Benzene

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

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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

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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.

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.

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: 10/02/2019

Revision Information: No data available.

Version #: 1.1

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.