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## SAFETY DATA SHEET

Petra Fuel/GDI Cleaner

#### 1. Identification

Product identifier: PN 2008

Other means of identification: Petra Fuel/GDI Cleaner

Recommended restrictions
Recommended use: Sample
Restrictions on use: Not known.

Manufacturer/Importer/Distributor Information

Manufacturer

Company Name: Petra Oil Company, Inc.
Address: 11085 Regency Green Drive

Cypress, TX 77429

Emergency telephone number: CHEMTREC 800-424-9300 (24 hours)

International 703-527-3887

#### 2. Hazard(s) identification

#### Hazard Classification Physical Hazards

Flammable aerosol Category 1

#### **Health Hazards**

Acute toxicity (Oral)

Skin Corrosion/Irritation

Serious Eye Damage/Eye Irritation

Category 1A

Carcinogenicity

Category 2

Category 2

Toxic to reproduction

Specific Target Organ Toxicity 
Repeated Exposure

Category 2

Category 2

Category 2

#### **Environmental Hazards**

Acute hazards to the aquatic Category 2 environment

#### **Label Elements**

#### **Hazard Symbol:**



SDS PN 2008 Petra Fuel/GDI Cleaner



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**Hazard Statement:** Extremely flammable aerosol.

Harmful if swallowed.

Causes severe skin burns and eye damage.

Causes serious eye irritation. Suspected of causing cancer.

Suspected of damaging fertility or the unborn child.

May cause damage to organs through prolonged or repeated exposure.

Toxic 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. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray. 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 release

to the environment.

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

breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell. Rinse

mouth. Do NOT induce vomiting. Immediately call a POISON

CENTER/doctor. Specific treatment (see on this label). Wash contaminated

clothing before reuse.

**Storage:** Protect from sunlight. Do not expose to temperatures exceeding

50°C/122°F. Store locked up.

**Disposal:** Dispose of contents/container to an appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC):

None.

#### 3. Composition/information on ingredients

#### **Mixtures**

Chemical Identity	CAS number	Content in percent (%)*	
Benzene, dimethyl-	1330-20-7	10 - <20%	
Dodecanoic acid, methyl ester	111-82-0	10 - <20%	
Pyrrolidine, 1-methyl-	120-94-5	10 - <20%	
2-Propanol	67-63-0	10 - <20%	
Propane	74-98-6	10 - <20%	
Butane	106-97-8	5 - <10%	
Benzene, ethyl-	100-41-4	5 - <10%	
Benzene, methyl-	108-88-3	0.1 - <1%	

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

The exact concentration has been withheld as a trade secret.



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#### 4. First-aid measures

#### Description of necessary first-aid measures

Inhalation: Call a physician or poison control center immediately. If breathing

stops, provide artificial respiration. Move to fresh air. If breathing is

difficult, give oxygen.

**Skin Contact:** Symptoms may be delayed. Important to remove the substance from

the skin immediately. Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. Call a physician or poison control center immediately. Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Destroy or thoroughly

clean contaminated shoes.

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

to do, remove contact lenses. Call a physician or poison control

center immediately.

**Ingestion:** Rinse mouth. Call a physician or poison control center immediately.

Never give liquid to an unconscious person. Do not induce vomiting

without advice from poison control center.

Personal Protection for First-

aid Responders:

Firefighters must use standard protective equipment including flame

retardant coat, helmet with face shield, gloves, rubber boots, and in

enclosed spaces, SCBA.

#### 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:** Symptoms may be delayed.

#### 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.



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#### 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.

Accidental release measures:

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.

Methods and material for containment and cleaning

up:

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

for chemical waste.

**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

#### Handling

Technical measures (e.g. Local and general ventilation):

No data available.

**Safe handling advice:** Do not taste or swallow. Wash hands thoroughly after handling. 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 eyes. 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 get in eyes, on skin, on clothing.

Contact avoidance measures: No data available.

Storage

Safe storage conditions: 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

Safe packaging materials: No data available.

Storage Temperature: No data available.



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## 8. Exposure controls/personal protection

# Control Parameters Occupational Expo

Chemical Identity	Type	Exposure Limit Values		Source	
Benzene, dimethyl-	TWA	100 ppm	435 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended	
	TWA	100 ppm		US. ACGIH Threshold Limit Values, as amended	
	PEL	100 ppm	435 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR	
			•	1910.1000), as amended	
	STEL	150 ppm	655 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended	
	STEL	150 ppm		US. ACGIH Threshold Limit Values, as amended	
	STEL	150 ppm	655 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as	
				amended	
	REL	100 ppm	435 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as	
				amended	
2-Propanol	STEL	500 ppm	1,225 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as	
	T14/4	000		amended	
	TWA	200 ppm	000 / 0	US. ACGIH Threshold Limit Values, as amended	
	REL	400 ppm	980 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as	
	DEI	400	000 / 0	amended	
	PEL	400 ppm	980 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR	
		400	000 / 0	1910.1000), as amended	
	TWA	400 ppm	980 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended	
	STEL	400 ppm	1.005 / 0	US. ACGIH Threshold Limit Values, as amended	
<u> </u>	STEL	500 ppm	1,225 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended	
Propane	REL	1,000 ppm	1,800 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as	
	DEI	4.000	4 000/0	amended	
	PEL	1,000 ppm	1,800 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR	
	TIA/A	1 000	1 000/2	1910.1000), as amended	
D. 4	TWA	1,000 ppm	1,800 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended US. NIOSH: Pocket Guide to Chemical Hazards, as	
Butane	REL	800 ppm	1,900 mg/m3	1	
	CTEL	1 000		amended	
	STEL TWA	1,000 ppm 800 ppm	1,900 mg/m3	US. ACGIH Threshold Limit Values, as amended US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended	
Danmana athul	STEL			, , , , , , , , , , , , , , , , , , , ,	
Benzene, ethyl-	SIEL	125 ppm	545 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended	
	REL	100 ppm	435 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as	
	NEL	100 ppiii	433 mg/m3	amended	
	PEL	100 ppm	435 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR	
	'	100 ppiii	400 mg/mo	1910.1000), as amended	
	STEL	125 ppm	545 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended	
	TWA	100 ppm	435 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended	
	TWA	20 ppm	.comgriio	US. ACGIH Threshold Limit Values, as amended	
Benzene, methyl-	STEL	150 ppm	560 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended	
201120110, 111041131	REL	100 ppm	375 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as	
			0.0 mg/0	amended	
	TWA	100 ppm	375 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended	
	Ceiling	300 ppm	gg	US. OSHA Table Z-2 (29 CFR 1910.1000), as amended	
	TWA	20 ppm		US. ACGIH Threshold Limit Values, as amended	
	TWA	200 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000), as amended	
	MAX.	500 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000), as amended	
	CONC			( 1 2 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
	STEL	150 ppm	560 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as	
				amended	
Furan, tetrahydro-	STEL	250 ppm	735 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended	
	STEL	100 ppm	<b>-</b>	US. ACGIH Threshold Limit Values, as amended	
	REL	200 ppm	590 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as	
		''	<b>5</b>	amended	
	STEL	250 ppm	735 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as	
				amended	
	PEL	200 ppm	590 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR	
				1910.1000), as amended	
	TWA	50 ppm		US. ACGIH Threshold Limit Values, as amended	
	TWA	200 ppm	590 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended	
Ammonium hydroxide ((NH4)(OH))	STEL	35 ppm		US. ACGIH Threshold Limit Values, as amended	
	TWA	25 ppm		US. ACGIH Threshold Limit Values, as amended	
	STEL	35 ppm	27 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended	



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STEL	35 ppm	27 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
REL	25 ppm	18 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
PEL	50 ppm	35 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended

**Biological Limit Values** 

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Chemical Identity	Exposure Limit Values	Source				
Benzene, dimethyl- (Methylhippuric acids: Sampling time: End of shift.)	1.5 g/g (Creatinine in urine)	ACGIH BEL				
2-Propanol (acetone: Sampling time: End of shift at end of work week.)	40 mg/l (Urine)	ACGIH BEL				
Benzene, ethyl- (Sum of mandelic acid and phenylglyoxylic acid:	0.15 g/g (Creatinine in urine)	ACGIH BEL				
Sampling time: End of shift.)						
Benzene, methyl- (toluene: Sampling time: End of shift.)	0.03 mg/l (Urine)	ACGIH BEL				
Benzene, methyl- (o-Cresol, with hydrolysis: Sampling time: End of shift.)	0.3 mg/g (Creatinine in urine)	ACGIH BEL				
Benzene, methyl- (toluene: Sampling time: Prior to last shift of work	0.02 mg/l (Blood)	ACGIH BEL				
week.)	,					
Furan, tetrahydro- (tetrahydrofuran: Sampling time: End of shift.)	2 mg/l (Urine)	ACGIH BEL				

**Exposure guidelines** 

Furan, tetrahydro- US. ACGIH Threshold Limit Values, as amended Can be absorbed through the skin.

**Appropriate Engineering** 

**Controls** 

No data available.

Individual protection measures, such as personal protective equipment

Eye/face protection: Wear a full-face respirator, if needed. Wear safety glasses with side shields

(or goggles) and a face shield.

**Skin Protection** 

Hand Protection: No data available.

**Skin and Body Protection:** 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. Do not eat, drink or smoke

when using the product. Wash hands after handling. Wash hands before breaks and immediately after handling the product. Avoid contact with eyes. 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. Do not get this material in contact with

skin.

#### 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.



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Freezing point:

Boiling Point:

Flash Point:

Estimated -104.44 °C

Evaporation Rate:

No data available.

No data available.

No data available.

No data available.

Explosive limit - upper (%):

Estimated 9.5 %(V)

Explosive limit - lower (%):

Estimated 1.9 %(V)

**Vapor pressure:** 3,447 - 4,826 hPa (20 °C)

Vapor density (air=1): No data available. Density: No data available. Relative density: No data available. Solubility in Water: No data available. Solubility (other): No data available. Partition coefficient (n-octanol/water): No data available. **Self Ignition Temperature:** No data available. **Decomposition Temperature:** No data available. Kinematic viscosity: No data available. **Dynamic viscosity:** No data available. **Explosive properties:** No data available. Oxidizing properties: 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:** Inhalation is the primary route of exposure. In high concentrations, vapors,

fumes or mists may irritate nose, throat and mucus membranes.

**Skin Contact:** May be harmful in contact with skin. Causes severe skin burns.

**Eye contact:** Causes serious eye irritation.

**Ingestion:** Harmful if swallowed.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Inhalation:** No data available.



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**Skin Contact:** No data available.

Eve contact: No data available.

Ingestion: No data available.

#### Information on toxicological effects

#### Acute toxicity (list all possible routes of exposure)

Oral

**Product:** ATEmix: 1,099.21 mg/kg

Dermal

**Product:** ATEmix: 3,177.03 mg/kg

Inhalation

**Product:** ATEmix: 29.13 mg/l Vapour

ATEmix: 7 mg/l Dusts, mists and fumes

Repeated dose toxicity

**Product:** No data available.

**Components:** 

Benzene, dimethyl-NOAEL (Rat(Female), Oral, 90 d): 150 mg/kg Oral Experimental result, Key

study

Dodecanoic acid, methyl

ester

NOAEL (Rat(Female, Male), Oral, 91 d): 5,500 mg/kg Oral Read-across from supporting substance (structural analogue or surrogate), Weight of

Evidence study

NOAEL (Rat(Female, Male), Oral, 41 - 55 d): 1,000 mg/kg Oral Experimental

result, Key study

LOAEL (Rat(Male), Oral, 12 Weeks): 1 %(m) Oral Experimental result,

Disregarded study

NOAEL (Rat(Male), Oral, 2 yr): 6,000 mg/kg Oral Read-across from

supporting substance (structural analogue or surrogate), Weight of Evidence

NOAEL (Rat(Female, Male), Oral, 41 - 55 d): 1,000 mg/kg Oral Experimental

result, Weight of Evidence study

NOAEL (Rat, Inhalation, >= 104 Weeks): 5,000 ppm(m) Inhalation 2-Propanol

Experimental result, Key study

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

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

NOAEL (Mouse(Female, Male), Inhalation, 104 Weeks): 75 ppm(m) Benzene, ethyl-

Inhalation Experimental result, Key study

NOAEL (Rat(Female, Male), Oral, 28 d): 75 mg/kg Oral Experimental result,

Key study

Benzene, methyl-LOAEL (Rat(Female, Male), Oral, 13 Weeks): 1,250 mg/kg (Target

Organ(s): Liver, Kidney) Oral Experimental result, Key study NOAEL (Rat(Female, Male), Inhalation): 625 ppm(m) Inhalation

Experimental result, Key study

NOAEL (Rat(Female, Male), Inhalation - vapor): 2,355 mg/l Inhalation

Experimental result, Key study



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Skin Corrosion/Irritation

**Product:** No data available.

Components:

Benzene, dimethyl- in vivo (Rabbit): Moderate irritant

estimated Irritating.

Dodecanoic acid, in vivo (Rabbit): Not irritant

methyl ester in vivo (Rabbit): Category 2; H315; Xi, R38

in vivo (Rabbit): Not irritant

in vivo (Rabbit): Irritating

Pyrrolidine, 1-methyl- Assessment Corrosive

2-Propanol in vivo (Rabbit): Not Classified Benzene, methyl-in vivo (Rabbit): Irritating

Serious Eye Damage/Eye Irritation

**Product:** No data available.

Components:

Benzene, dimethyl- Rabbit, 1 hrs: Slightly irritating (Not Classified)

Dodecanoic acid, Rabbit, 24 hrs: Not irritating methyl ester Rabbit, 24 - 72 hrs: Not irritating

Rabbit, 24 - 72 hrs: Not irritating

Pyrrolidine, 1-methyl- Irritating.

2-Propanol Rabbit, 1 d: Category 2: Causes serious eye irritation

Irritating.

Benzene, methyl- Rabbit, 24 - 72 hrs: Not irritating

Respiratory or Skin Sensitization

**Product:** No data available.

Components:

Dodecanoic acid,

Skin sensitization:, in vivo (Guinea pig): Not sensitising

methyl ester

2-Propanol Skin sensitization:, in vivo (Guinea pig): Non sensitising Senzene, ethyl-Skin sensitization:, in vivo (Human): Non sensitising Skin sensitization:, in vivo (Guinea pig): Non sensitising

Carcinogenicity

**Product:** Suspected of causing cancer.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Benzene, ethylFuran, tetrahydroOverall evaluation: 2B. Possibly carcinogenic to humans.
Overall evaluation: 2B. Possibly carcinogenic to humans.

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

Benzene, ethyl
Overall evaluation: 2B. Possibly carcinogenic to humans.

Overall evaluation: 2B. Possibly carcinogenic to humans.

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

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

**Product:** No data available.



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In vivo

**Product:** No data available.

Reproductive toxicity

**Product:** Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity - Single Exposure
Product:
No data available.

Components: 2-Propanol

Narcotic effect. - Category 3 with narcotic effects.

Benzene, methyl- Inhalation - vapor: Narcotic effect. - Category 3 with narcotic effects.

Specific Target Organ Toxicity - Repeated Exposure

**Product:** No data available.

Components:

Benzene, ethyl- Category 2
Benzene, methyl- Category 2

**Aspiration Hazard** 

**Product:** No data available.

Components:

Benzene, ethyl
May be fatal if swallowed and enters airways.

Benzene, methyl
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.

Components:

Dodecanoic acid, methyl

ester

LC 0 (Leuciscus idus, 48 h): 980 mg/l Experimental result, Supporting study LC 50 (Leuciscus idus, 48 h): 1,666 mg/l Experimental result, Supporting

study

LC 100 (Leuciscus idus, 48 h): 3,000 mg/l Experimental result, Supporting

study

LC 50 (Oryzias latipes, 96 h): > 0.52 mg/l Experimental result, Key study LC 50 (Oryzias latipes, 96 h): > 1 mg/l Experimental result, Key study

Pyrrolidine, 1-methyl- LC 50 (Rainbow trout, donaldson trout (Oncorhynchus mykiss), 96 h): 36.5

mg/l Mortality

2-Propanol LC 50 (Pimephales promelas, 96 h): 9,640 mg/l Experimental result, Key

study

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

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

Benzene, ethyl- LC 50 (Fathead minnow (Pimephales promelas), 96 h): 38.9 - 62.83 mg/l

Mortality

Benzene, methyl- LC 50 (Oncorhynchus kisutch, 96 h): 5.5 mg/l Experimental result, Key study



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**Aquatic Invertebrates** 

**Product:** No data available.

Components:

ester EC 50 (Daphnia magna, 24 h): 0.296 mg/l Experimental result, Key study

NOAEL (Daphnia magna, 48 h): 0.102 mg/l Experimental result, Key study

Pyrrolidine, 1-methyl- EC 50 (Water flea (Daphnia pulex), 48 h): 4.64 mg/l Intoxication

2-Propanol LC 50 (Daphnia magna, 24 h): > 10,000 mg/l Experimental result, Key study

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

Benzene, ethyl- LC 50 (Water flea (Daphnia magna), 24 h): 57 - 100 mg/l Mortality

Benzene, methyl- LC 50 (Water flea (Daphnia magna), 48 h): 54.6 - 174.7 mg/l Mortality

LC 50 (Ceriodaphnia dubia, 2 d): 3.78 mg/l Experimental result, Key study

#### Chronic hazards to the aquatic environment:

Fish

**Product:** No data available.

Components:

Benzene, methyl- NOAEL (Oncorhynchus kisutch): 1.39 mg/l Experimental result, Key study

LOAEL (Oncorhynchus kisutch): 2.77 mg/l Experimental result, Key study

**Aquatic Invertebrates** 

**Product:** No data available.

Components:

Dodecanoic acid. methyl

ester

LC 50 (Daphnia magna): 0.252 mg/l Experimental result, Key study NOAEL (Daphnia magna): 0.0814 mg/l Experimental result, Key study

EC 50 (Daphnia magna): 0.22 mg/l Experimental result, Key study

Benzene, ethyl- LC 50 (Ceriodaphnia dubia): 3.2 mg/l Other, Key study

NOAEL (Ceriodaphnia dubia): 1 mg/l Other, Key study

Benzene, methyl- LOAEL (Ceriodaphnia dubia): 2.76 mg/l Experimental result, Key study

NOAEL (Ceriodaphnia dubia): 0.74 mg/l Experimental result, Key study

**Toxicity to Aquatic Plants** 

**Product:** 

No data available.

#### Persistence and Degradability

Biodegradation

**Product:** No data available.

Components:

Benzene, dimethyl- 87.8 % Detected in water. Read-across from supporting substance

(structural analogue or surrogate), Key study

Dodecanoic acid, methyl

ester

78 % (28 d) Detected in water. Experimental result, Key study

Pyrrolidine, 1-methyl- Expected to be inherently biodegradable.



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2-Propanol 53 % (5 d) Detected in water. Experimental result, Key study

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

50 % (3.19 d) Detected in water. QSAR, Weight of Evidence study

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

Benzene, ethyl- 2.7 % Detected in water. Other, Supporting study

70 - 80 % (28 d) Detected in water. Experimental result, Key study

Benzene, methyl- 100 % (14 d) Detected in water. Experimental result, Weight of Evidence

study

86 % Detected in water. Experimental result, Weight of Evidence study

**BOD/COD Ratio** 

**Product:** No data available.

**Bioaccumulative potential** 

**Bioconcentration Factor (BCF)** 

**Product:** No data available.

Components:

Benzene, dimethyl- Oncorhynchus mykiss, Bioconcentration Factor (BCF): > 7.6 - < 21.6 Aquatic

sediment Experimental result, Key study

Dodecanoic acid, methyl

ester

Lepomis macrochirus, Bioconcentration Factor (BCF): < 17 Aquatic

sediment Read-across from supporting substance (structural analogue or

surrogate), Weight of Evidence study

Oncorhynchus mykiss, Bioconcentration Factor (BCF): 63 Aquatic sediment Read-across from supporting substance (structural analogue or surrogate),

Weight of Evidence study

Oncorhynchus mykiss, Bioconcentration Factor (BCF): 56 Aquatic sediment Read-across from supporting substance (structural analogue or surrogate).

Weight of Evidence study

Various, Bioconcentration Factor (BCF): 154.3 Aguatic sediment QSAR,

Weight of Evidence study

Chlorella fusca var.vacuolata; Leuciscus idus melanotus; Activated sludge, Bioconcentration Factor (BCF): < 10 Aquatic sediment Read-across from supporting substance (structural analogue or surrogate), Weight of Evidence

study

Benzene, ethyl- Carassius auratus, Bioconcentration Factor (BCF): 15.5 Aquatic sediment

Other, Supporting study

Benzene, methyl- Leuciscus idus, Bioconcentration Factor (BCF): 90 Aquatic sediment

Experimental result, Key study

Partition Coefficient n-octanol / water (log Kow)

**Product:** No data available.

Components:

Benzene, dimethyl- Log Kow: 2.77 - 3.15 No Not specified, Not specified

Pyrrolidine, 1-methyl- Log Kow: 1.1

Benzene, ethyl- Log Kow: 3.13 - 3.14 No Other, Supporting study

Mobility in soil: No data available.



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Components:

Benzene, dimethyl-No data available. Dodecanoic acid, methyl ester No data available. Pyrrolidine, 1-methyl-No data available. 2-Propanol No data available. Propane No data available. Butane No data available. Benzene, ethyl-No data available. Benzene, methyl-No data available.

Other adverse effects: Toxic to aquatic organisms.

13. Disposal considerations

**Disposal instructions:** Discharge, treatment, or disposal may be subject to national, state, or local

laws.

Contaminated Packaging: No data available.

14. Transport information

DOT

UN Number: UN 1950

UN Proper Shipping Name: Aerosols, Flammable, Corrosive

Transport Hazard Class(es)

Class: 2.1
Subsidiary Risk: 8
Label(s) 2.1, 8
Packing Group: 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, Corrosive

Transport Hazard Class(es)

 Class:
 2

 Subsidiary Risk:
 8

 Label(s)
 2.1, 8

 EmS No.:
 F-D, S-U

Packing Group: -

Environmental Hazards: No

Special precautions for user: Not regulated.



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IATA

UN Number: UN 1950

Proper Shipping Name: Aerosols, Flammable, corrosive, containing substances in Class 8,

Packing Group III

Transport Hazard Class(es):

Class: 2.1
Label(s) 2.1, 8
Subsidiary Risk: 8
Packing Group: –

Environmental Hazards: 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)

None present or none present in regulated quantities.

## US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended

None present or none present in regulated quantities.

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

#### **Chemical Identity**

XYLENE (MIXED)
UNLISTED HAZARDOUS WASTES CHARACTERISTIC OF IGNITABILITY
RCRA HAZARDOUS WASTE NO. D001
ETHYLBENZENE
BENZENE, METHYLFURAN, TETRAHYDROTETRAHYDROFURAN
AMMONIUM HYDROXIDE

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### **Hazard categories**

Flammable (gases, aerosols, liquids, or solids), Acute toxicity (any route of exposure), Skin Corrosion or Irritation, Serious eye damage or eye irritation, Carcinogenicity, Reproductive toxicity, Specific target organ toxicity (single or repeated exposure)

# US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

None present or none present in regulated quantities.



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# US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

Chemical Identity % by weight

Benzene, dimethyl2-Propanol

Benzene, ethyl
0.1%

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

#### Chemical Identity

Propane Butane

#### Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

#### **Chemical Identity**

Benzene, dimethyl-Benzene, ethyl-Benzene, methyl-

Ammonium hydroxide ((NH4)(OH))

#### **US State Regulations**

#### **US. California Proposition 65**



**WARNING:** This product can expose you to chemicals including, Benzene, ethyl-which is [are] known to the State of California to cause cancer.

This product can expose you to chemicals including, Benzene, methylwhich is [are] known to the State of California to cause birth defects or other reproductive harm.

For more information go to www.P65Warnings.ca.gov.

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

#### **Chemical Identity**

Benzene, dimethyl-Pyrrolidine, 1-methyl-2-Propanol Propane Butane

Benzene, ethyl-

#### **US. Massachusetts RTK - Substance List**

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

#### US. Pennsylvania RTK - Hazardous Substances

#### **Chemical Identity**

Benzene, dimethyl-Pyrrolidine, 1-methyl-2-Propanol Propane Butane Benzene, ethyl-

## 9-Octadecenoic acid (9Z)-

**US. Rhode Island RTK**No ingredient regulated by RI Right-to-Know Law present.



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#### International regulations

Montreal protocol

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable

**Kyoto protocol** 

Not applicable

**Inventory Status:** 

Australia AICS On or in compliance with the inventory

Canada DSL Inventory List Not in compliance with the inventory.

Canada NDSL Inventory Not in compliance with the inventory.

Ontario Inventory On or in compliance with the inventory

China Inv. Existing Chemical Substances

On or in compliance with the inventory

Japan (ENCS) List Not in compliance with the inventory.

Japan ISHL Listing Not in compliance with the inventory.

Japan Pharmacopoeia Listing Not in compliance with the inventory.

Korea Existing Chemicals Inv. (KECI)

Not in compliance with the inventory.

Mexico INSQ Not in compliance with the inventory.

New Zealand Inventory of Chemicals

On or in compliance with the inventory

Philippines PICCS On or in compliance with the inventory

Taiwan Chemical Substance Inventory

On or in compliance with the inventory

US TSCA Inventory On or in compliance with the inventory

EINECS, ELINCS or NLP Not in compliance with the inventory.

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

Issue Date: 08/27/2020

**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.