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SAFETY DATA SHEET

1. Identification

Product identifier: FLEX SEAL CLEAR FSCL20

Other means of identification

SDS number: RE1000014232

Recommended restrictions

Product Use: Coating

Restrictions on use: Not known.

Manufacturer/Importer/Distributor Information

Manufacturer

Company Name: SWIFT RESPONSE, LLC Address: 2690 WESTON RD. WESTON, FL 33331

Telephone: 800-307-6201

Fax:

Emergency telephone number: 1-866-836-8855

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Flammable aerosol Category 1
Gases under pressure Liquefied gas

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.

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.

Contains gas under pressure; may explode if heated.

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.

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, 2-methyl-	75-28-5	20 - <50%
Benzene, methyl-	108-88-3	10 - <25%
Benzene, 1-chloro-4- (trifluoromethyl)-	98-56-6	5 - <10%
2-Propanone	67-64-1	5 - <10%
Solvent naphtha (petroleum), light aliph.	64742-89-8	5 - <10%
Propane	74-98-6	1 - <5%
Silica	112945-52-5	0.1 - <1%
Octane	111-65-9	0.1 - <1%
Stoddard solvent	8052-41-3	0.1 - <1%
Heptane	142-82-5	0.1 - <1%

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

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4. First-aid measures

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

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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:

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

Environmental Precautions:

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

7. Handling and storage

Precautions for safe 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. Wash hands thoroughly after handling.

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 Lin	nit Values	Source
Propane, 2-methyl-	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)
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. ÁCGIH 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)
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)
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)
Propane	REL	1,000 ppm	1,800 mg/m3	US. NIOSH: Pocket Guide to Chemical

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				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)
Silica	TWA		20 millions of	US. OSHA Table Z-3 (29 CFR 1910.1000)
			particles per cubic foot of	(2000)
	TIA/A		air	LIC OCUA T-bla 7 2 (00 OFD 4040 4000)
	TWA		0.8 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
	REL		6 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
Octane	TWA	300 ppm		US. ACGIH Threshold Limit Values (03 2012)
	Ceil_Time	385 ppm	1,800 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	REL	75 ppm	350 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	500 ppm	2,350 mg/m3	US. OSHA Table Z-1 Limits for Air
	TWA	300 ppm	1,450 mg/m3	Contaminants (29 CFR 1910.1000) (02 2006) US. OSHA Table Z-1-A (29 CFR 1910.1000)
	STEL	375 ppm	1,800 mg/m3	(1989) US. OSHA Table Z-1-A (29 CFR 1910.1000)
		• • •	1,000 mg/m3	(1989)
Stoddard solvent	TWA REL	100 ppm	350 mg/m3	US. ACGIH Threshold Limit Values (2008) US. NIOSH: Pocket Guide to Chemical
			•	Hazards (2005)
	PEL	500 ppm	2,900 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	Ceil_Time		1,800 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA	100 ppm	525 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Heptane	TWA	400 ppm	1,600 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000)
	REL	85 ppm	350 mg/m3	(1989) US. NIOSH: Pocket Guide to Chemical
	PEL	500 ppm	2,000 mg/m3	Hazards (2005) US. OSHA Table Z-1 Limits for Air
	STEL	500 ppm	2,000 mg/m3	Contaminants (29 CFR 1910.1000) (02 2006) US. OSHA Table Z-1-A (29 CFR 1910.1000)
	TWA	400 ppm		(1989) 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
Benzene, dimethyl-	STEL	150 ppm	655 mg/m3	Hazards (2005) US. OSHA Table Z-1-A (29 CFR 1910.1000)
	TWA	100 ppm	435 mg/m3	(1989) US. OSHA Table Z-1-A (29 CFR 1910.1000)
	TIA/A			(1989) US. ACGIH Threshold Limit Values (2008)
	TWA	100 ppm	405	` ,
	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)
Benzene, 1,3-dimethyl-	STEL	150 ppm	655 mg/m3	US. NIOSH: Pocket Guide to Chemical
	REL	100 ppm	435 mg/m3	Hazards (2005) US. NIOSH: Pocket Guide to Chemical
	PEL	100 ppm	435 mg/m3	Hazards (2005) US. OSHA Table Z-1 Limits for Air
	STEL	150 ppm	655 mg/m3	Contaminants (29 CFR 1910.1000) (02 2006) US. OSHA Table Z-1-A (29 CFR 1910.1000)
	TWA	100 ppm	435 mg/m3	(1989) US. OSHA Table Z-1-A (29 CFR 1910.1000)
	T\A/A			(1989) US. ACGIH Threshold Limit Values (03 2017)
	TWA STEL	100 ppm 150 ppm		US. ACGIH Threshold Limit Values (03 2017) US. ACGIH Threshold Limit Values (03 2017)
Benzene, ethyl-	STEL	125 ppm	545 mg/m3	US. NIOSH: Pocket Guide to Chemical
Delizene, ethyl-			•	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

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				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)
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)
	TWA	0.5 ppm		US. ACGIH Threshold Limit Values (2008)
	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)
	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	1 ppm		US. NIOSH: Pocket Guide to Chemical Hazards (2005)

Biological Limit Values

Chemical Identity	Exposure Limit Values	Source
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)
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, 1,3-dimethyl- (Methylhippuric acids: Sampling time: End of shift.)	1.5 g/g (Creatinine in urine)	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.

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Wear safety glasses with side shields (or goggles). **Eye/face protection:**

Skin Protection

Hand Protection: No data available.

Other: 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.

When using do not smoke. Observe good industrial hygiene practices. Do Hygiene measures:

> 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: Clear

Odor: No data available. Odor threshold: No data available. No data available. Melting point/freezing point: No data available. Initial boiling point and boiling range: Estimated 98.99 °C Flash Point: Estimated -104.4 °C No data available. **Evaporation rate:** Flammability (solid, gas): No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%): Estimated 9.2 %(V) Flammability limit - lower (%): Estimated 1.6 %(V) Explosive limit - upper (%): No data available. Explosive limit - lower (%): No data available.

Estimated 2.758 - 3.792 hPa Vapor pressure:

Vapor density: No data available. Density: Estimated 0.627 g/cm3

Relative density: No data available.

Solubility(ies)

Solubility in water: Insoluble in water Solubility (other): No data available. Partition coefficient (n-octanol/water): Estimated > 4

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

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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.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

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

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Specified substance(s):

Benzene, methyl- LD 50 (Rat): 5,580 mg/kg

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

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

Solvent naphtha (petroleum), light aliph.

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

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

Stoddard solvent LD 50: > 2,000 mg/kg

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

Dermal

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

Specified substance(s):

Benzene, methyl- LD 50 (Rabbit): > 5,000 mg/kg

Benzene, 1-chloro-4-(trifluoromethyl)- LD 50: 3,300 mg/kg

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

Solvent naphtha (petroleum), light aliph.

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

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

Stoddard solvent LD 50: > 2,000 mg/kg

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

Inhalation

Product: ATEmix: 59.55 mg/l

Repeated dose toxicity

Product: No data available.

Specified substance(s):

Propane, 2-methyl- NOAEL (Rat(Female, Male), Inhalation, >= 42 d): 16,000 ppm(m) Inhalation

Experimental result, Key study

NOAEL (Rat(Female, Male), Inhalation): 21,394 mg/m3 Inhalation

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

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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

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

study

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

Key study

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

result, Key study

Solvent naphtha (petroleum), light aliph.

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

mg/m3 Inhalation Experimental result. Key study

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

Experimental result, Key study

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

Experimental result, Supporting study

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

Octane NOAEL (Rat(Male), Inhalation): > 14,000 mg/m3 Inhalation Experimental

result, Supporting study

NOAEL (Rat(Male), Inhalation): 8,400 mg/m3 Inhalation Read-across based

on grouping of substances (category approach), Key study

NOAEL (Rat(Female, Male), Inhalation): 24,300 mg/m3 Inhalation Readacross from supporting substance (structural analogue or surrogate), Key

study

Stoddard solvent NOAEL (Rat, Inhalation - vapor): 1.9 mg/l (Target Organ(s): Nervous

System)

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

result, Key study

Skin Corrosion/Irritation

Product: No data available.

Specified substance(s):

Benzene, methyl- in vivo (Rabbit): Irritating Experimental result, Key study

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

Key study

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

Solvent naphtha

Assessment Non-Irritating

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

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

(category approach), Key study

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

(category approach), Key study

Serious Eye Damage/Eye Irritation

Product: No data available.

Specified substance(s):

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

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2-Propanone Irritating.

Rabbit, 24 hrs: Minimum grade of severe eye irritant

Solvent naphtha

(petroleum), light aliph.

Rabbit: Not irritating

Octane Rabbit, 24 - 72 hrs: Not irritating

Rabbit, 24 - 72 hrs: Not irritating

Heptane Rabbit, 24 - 72 hrs: Not irritating

Respiratory or Skin Sensitization

Product: No data available.

Specified substance(s):

Benzene, methyl2-Propanone
Skin sensitization:, in vivo (Guinea pig): Non sensitising
Solvent naphtha
Skin sensitization:, in vivo (Guinea pig): Non sensitising
Skin sensitization:, in vivo (Guinea pig): Non sensitising

(petroleum), light aliph.

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

Carcinogenicity

Product: No data available.

Specified substance(s):

Stoddard solvent Potential cancer hazard.

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):

Benzene, methyl- Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity - Single Exposure

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

Specific Target Organ Toxicity - Repeated Exposure

Product: Category 2

Target Organs

Specific Target Organ Toxicity - Single Exposure: Narcotic effect.

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Aspiration Hazard

Product: No data available.

Specified substance(s):

Benzene, methylSolvent naphtha
May be fatal if swallowed and enters airways.
May be fatal if swallowed and enters airways.

(petroleum), light aliph.

Stoddard solvent May be fatal if swallowed and enters airways. Heptane 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: LC 50 (96 h): Estimated > 100 mg/l

Aquatic Invertebrates

Product: LC 50 (96 h): Estimated > 100 mg/l

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

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

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

Solvent naphtha

(petroleum), light aliph.

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

Octane NOAEL (Oncorhynchus mykiss): 0.579 mg/l QSAR QSAR, Key study

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

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

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

NOAEL (Ceriodaphnia dubia): 0.74 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

Solvent naphtha

(petroleum), light aliph.

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

Octane NOAEL (Daphnia magna): 1 mg/l Read-across based on grouping of

substances (category approach), Key study

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

substances (category approach), Key study

LOAEL (Daphnia magna): 0.32 mg/l Read-across based on grouping of

substances (category approach), Key study

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EC 50 (Daphnia magna): 0.64 mg/l Read-across based on grouping of

substances (category approach), Key study

EC 50 (Daphnia magna): 3.2 mg/l Read-across based on grouping of

substances (category approach), 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

Toxicity to Aquatic Plants

Product: No data available.

Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s):

Propane, 2-methyl- 100 % Detected in water. QSAR, Weight of Evidence 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

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

2-Propanone 90.9 % (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

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

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

Octane 28.4 % Detected in water. Experimental result, Supporting study

1 % Detected in water. Experimental result, Supporting study 4.6 % Detected in water. Experimental result, Supporting study 63.4 % Detected in water. Experimental result, Key study 28.3 % Detected in water. Experimental result, Key study

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

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Specified substance(s):

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

Experimental result, Key study

Benzene, 1-chloro-4-(trifluoromethyl)- Bioconcentration Factor (BCF): 9 Aquatic sediment Estimated by calculation,

Key study

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

Experimental result, Not specified

Solvent naphtha

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

(petroleum), light aliph. calculation, Key study

Octane Mytilus edulis, Bioconcentration Factor (BCF): 198.7 Aquatic sediment

Experimental result, Key study

Bioconcentration Factor (BCF): 1,216 Aquatic sediment Estimated by

calculation, Supporting study

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

calculation, Key study

Partition Coefficient n-octanol / water (log Kow)

Product: Log Kow: Estimated > 4

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

Propane, 2-methylBenzene, methylBenzene, 1-chloro-4No data available.
No data available.

(trifluoromethyl)-

2-Propanone No data available. Solvent naphtha No data available.

(petroleum), light aliph.

Propane No data available.
Silica No data available.
Octane No data available.
Stoddard solvent No data available.
Heptane 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

Transport Hazard Class(es)

Class: 2.1
Label(s): –
Packing Group: II
Marine Pollutant: No

Environmental Hazards: No Marine Pollutant No

Revision Date: 12/04/2019

Special precautions for user: Not regulated.

IMDG

UN Number: UN 1950

UN Proper Shipping Name: Aerosols, flammable

Transport Hazard Class(es)

Class: 2 Label(s): – EmS No.:

Packing Group: -

Environmental Hazards: No Marine Pollutant No

Special precautions for user: Not regulated.

IATA

UN Number: UN 1950

Proper Shipping Name: Aerosols, flammable

Transport Hazard Class(es):

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

Environmental Hazards: No Marine Pollutant No

Special precautions for user: Not regulated.

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)

<u>Chemical Identity</u>
Benzene

OSHA hazard(s)
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, 2-methyl-	lbs. 100
Benzene, methyl-	lbs. 1000
2-Propanone	lbs. 5000
Propane	lbs. 100
Octane	lbs. 100
Heptane	lbs. 100
Benzene, dimethyl-	lbs. 100
Benzene, 1,3-dimethyl-	lbs. 1000
Benzene, ethyl-	lbs. 1000
Benzene	lbs. 10

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

2-Propanone Stoddard solvent

SARA 304 Emergency Release Notification

Chemical Identity	Reportable quantity
Propane, 2-methyl-	lbs. 100
Benzene, methyl-	lbs. 1000
2-Propanone	lbs. 5000
Propane	lbs. 100
Octane	lbs. 100
Stoddard solvent	
Heptane	lbs. 100
Benzene, dimethyl-	lbs. 100
Benzene, 1,3-dimethyl-	lbs. 1000
Benzene, ethyl-	lbs. 1000
Benzene	lbs. 10

Revision Date: 12/04/2019

SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Propane, 2-methyl-	10000 lbs
Benzene, methyl-	10000 lbs
Benzene, 1-chloro-4-	10000 lbs
(trifluoromethyl)-	
2-Propanone	10000 lbs
Solvent naphtha	10000 lbs
(petroleum), light aliph.	
Propane	10000 lbs
Silica	10000 lbs
Octane	10000 lbs
Stoddard solvent	10000 lbs
Heptane	10000 lbs
Benzene, dimethyl-	10000 lbs
Benzene, 1,3-dimethyl-	10000 lbs
Benzene, ethyl-	10000 lbs
Benzene	10000 lbs

SARA 313 (TRI Reporting)

Reporting	Reporting threshold for	
threshold for	manufacturing and	
other users	processing	

<u>Chemical Identity</u> <u>other users</u> <u>processing</u>

Benzene, methyl- 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.

Benzene, methyl- Developmental toxin. 03 2008

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

Chemical Identity

Propane, 2-methyl-Benzene, methyl-

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

2-Propanone

Solvent naphtha (petroleum), light aliph.

Propane

US. Massachusetts RTK - Substance List

Chemical Identity

Benzene

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Propane, 2-methyl-

Benzene, methyl-

2-Propanone

Solvent naphtha (petroleum), light aliph.

Propane

US. Rhode Island RTK

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

International regulations

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Montreal protocol

2-Propanone Stoddard solvent

Stockholm convention

2-Propanone -Stoddard solvent --

Rotterdam convention

2-Propanone --Stoddard solvent ---

Kyoto protocol

Inventory Status:

Australia AICS: On or in compliance with the inventory

Canada DSL Inventory List:

On or in compliance with the inventory

Canada NDSL Inventory: Not in compliance with the inventory.

Ontario Inventory: Not 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): On or 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: 12/04/2019

Revision Information: No data available.

Revision Date: 12/04/2019

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.