

Revision Date: 12/17/2019

SAFETY DATA SHEET

1. Identification

Product identifier: FAST OPEN 957 SCREEN OPENER

Other means of identification

SDS number: RE1000007897

Recommended restrictions

Product use: Cleaner

Restrictions on use: Not known.

Manufacturer/Importer/Distributor Information

Manufacturer

Company Name: Sprayway, Inc.

Address: 1000 INTEGRAM DR.

Pacific, MO 63069

Telephone:

1-630-628-3000

Fax:

Emergency telephone number: 1-866-836-8855

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Flammable aerosol Category 1

Health Hazards

Acute toxicity (Dermal)

Skin Corrosion/Irritation

Category 2

Serious Eye Damage/Eye Irritation

Category 2A

Carcinogenicity

Category 1B

Aspiration Hazard

Category 1

Environmental Hazards

Acute hazards to the aquatic Category 3

environment

Label Elements

Hazard Symbol:



Signal Word: Danger

Hazard Statement: Extremely flammable aerosol.

Harmful in contact with skin.

Causes skin irritation.

Causes serious eye irritation.

May cause cancer.

May be fatal if swallowed and enters airways.

Harmful to aquatic life.



Revision Date: 12/17/2019

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. Wear protective

gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. 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 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: 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). 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, trimethyl-	25551-13-7	25 - <50%
Butane	106-97-8	20 - <50%
Cyclohexanone	108-94-1	10 - <20%
Benzene, 1,2,4-trimethyl-	95-63-6	10 - <20%
Solvent naphtha (petroleum), light arom.	64742-95-6	5 - <10%
Propane	74-98-6	5 - <10%
Benzene, (1-methylethyl)-	98-82-8	1 - <5%
Benzene, dimethyl-	1330-20-7	1 - <5%
Benzene, methyl(1-methylethyl)-	25155-15-1	1 - <5%

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

4. First-aid measures

Ingestion: Rinse mouth. Call a physician or poison control center immediately. Never

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

that stomach content doesn't get into the lungs.

Inhalation: Move to fresh air.

Skin Contact: Call a POISON CENTER/doctor if you feel unwell. Immediately flush with

plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before reuse.



Revision Date: 12/17/2019

Eye contact: Remove contact lenses, if present and easy to do. Continue rinsing.

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: 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. Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking,

flares, sparks or flames in immediate area). Keep upwind.

Methods and material for containment and cleaning

up:

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

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.



Revision Date: 12/17/2019

7. Handling and storage

Precautions for safe handling:

Avoid contact with eyes, skin, and clothing. 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. 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
Benzene, trimethyl-	TWA	25 ppm		US. ACGIH Threshold Limit Values (2008)
•	TWA	25 ppm	125 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	REL	25 ppm	125 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2016)
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)
Cyclohexanone	TWA	20 ppm		US. ACGIH Threshold Limit Values (2008)
	STEL	50 ppm		US. ACGIH Threshold Limit Values (2008)
	REL	25 ppm	100 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	50 ppm	200 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	25 ppm	100 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Benzene, 1,2,4-trimethyl-	TWA	25 ppm	125 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	REL	25 ppm	125 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA	25 ppm		US. ACGIH Threshold Limit Values (2008)
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)
Benzene, (1-methylethyl)-	REL	50 ppm	245 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA	50 ppm		US. ACGIH Threshold Limit Values (2008)
	PEL	50 ppm	245 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	50 ppm	245 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	1 ppm		US. ACGIH Notice of Intended Changes (NIC) to Threshold Limit Values (03 2018)
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)
Benzene	REL	0.1 ppm		US. NIOSH: Pocket Guide to Chemical Hazards (2005)



Revision Date: 12/17/2019

	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_ACT	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)
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)

Biological Limit Values

Chemical Identity	Exposure Limit Values	Source
Cyclohexanone (1,2-Cyclohexanediol, with hydrolysis: Sampling time: End of shift at end of work week.)	80 mg/l (Urine)	ACGIH BEL (03 2013)
Cyclohexanone (Cyclohexanol, with hydrolysis: Sampling time: End of shift.)	8 mg/l (Urine)	ACGIH BEL (03 2013)
Benzene, dimethyl- (Methylhippuric acids: Sampling time: End of shift.)	1.5 g/g (Creatinine in urine)	ACGIH BEL (03 2013)
Benzene (S-Phenylmercapturic acid: Sampling time: End of shift.)	25 μg/g (Creatinine in urine)	ACGIH BEL (03 2013)
Benzene (t,t-Muconic acid: Sampling time: End of shift.)	500 μg/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)

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.

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

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.



Revision Date: 12/17/2019

Hygiene measures: Avoid contact with skin. Observe good industrial hygiene practices. Wash

hands before breaks and immediately after handling the product. Avoid contact with eyes. When using do not smoke. Wash contaminated clothing

before reuse.

9. Physical and chemical properties

Appearance

Physical state: liquid

Form: Spray Aerosol Color: No data available. Odor: No data available. **Odor threshold:** No data available. pH: No data available. Melting point/freezing point: No data available. Initial boiling point and boiling range: Estimated 155.6 °C Estimated -104.4 °C Flash Point: **Evaporation rate:** No data available. Flammability (solid, gas): No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%): 9.5 %(V)
Flammability limit - lower (%): 1.9 %(V)

Explosive limit - upper (%):

No data available.

Explosive limit - lower (%):

No data available.

Vapor pressure: 2,757 - 4,136 hPa (20 °C)

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

Solubility(ies)

Solubility in water:

Solubility (other):

No data available.

No data available.

No data available.

No data available.

Auto-ignition temperature:Estimated 905 °CDecomposition 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.



Revision Date: 12/17/2019

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: ATEmix: 2,882.2 mg/kg

Dermal

Product: ATEmix: 1,918.11 mg/kg

Inhalation

Product: ATEmix: 25.14 mg/l

Repeated dose toxicity

Product: No data available.

Specified substance(s):

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

Experimental result, Key study

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

Experimental result, Key study

Cyclohexanone NOAEL (Rat(Female, Male), Oral, 3 Months): 143 mg/kg Oral Experimental

result, Key study

NOAEL (Mouse, Rat(Female, Male), Oral, 2 yr): 462 mg/kg Oral

Experimental result, Weight of Evidence study

LOAEL (Mouse, Rat(Female, Male), Oral, 2 yr): 910 mg/kg Oral

Experimental result, Weight of Evidence study

NOAEL (Rat(Male), Other route of exposure (excluding dermal, oral and inhalation), 28 d): 100 mg/kg Other route of exposure (excluding dermal, oral

and inhalation) Experimental result, Supporting study

Benzene, 1,2,4-trimethyl- NOAEL (Rat(Female, Male), Oral, 90 - 91 d): 600 mg/kg Oral Read-across

from supporting substance (structural analogue or surrogate), Key study

NOAEL (Rat(Female, Male), Inhalation): 1,800 mg/m3 Inhalation

Experimental result, Key study

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

mg/m3 Inhalation Experimental result, Key study

NOAEL (Rat(Female, Male), Inhalation): > 20,000 mg/m3 Inhalation

Experimental result, Key study

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

Experimental result, Key study

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

SDS US - RE1000007897

(petroleum), light arom.



Revision Date: 12/17/2019

Experimental result, Key study

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

Experimental result, Key study

Benzene, (1-methylethyl)-NOAEL (Rat(Male), Oral, 28 d): > 535.8 mg/kg Oral Experimental result, Key

study

NOAEL (Rat(Female, Male), Inhalation): 125 ppm(m) Inhalation

Experimental result, Key study

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

study

Skin Corrosion/Irritation

No data available. **Product:**

Specified substance(s):

in vivo (Rabbit): Irritating Experimental result, Key study Cyclohexanone

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

Benzene, 1,2,4-

in vivo (Rabbit): Irritating Read-across from supporting substance (structural

trimethylanalogue or surrogate), Supporting study

Solvent naphtha

Assessment Not Classified Repeated exposure may cause skin dryness or

(petroleum), light arom. cracking.

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

Benzene, dimethylin vivo (Rabbit): Irritating. Experimental result, Weight of Evidence study

Serious Eye Damage/Eye Irritation

Product: No data available.

Specified substance(s):

Solvent naphtha Rabbit, 24 - 72 hrs: Not irritating

(petroleum), light arom.

Benzene, (1-Rabbit, 24 - 72 hrs: Not irritating

methylethyl)-

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

Respiratory or Skin Sensitization

Product: No data available.

Specified substance(s):

Cyclohexanone Skin sensitization:, in vivo (Guinea pig): one batch showed a sensitization

effect

Benzene, 1,2,4-

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

trimethyl-

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

(petroleum), light arom.

Benzene. (1-Skin sensitization:, in vivo (Guinea pig): Non sensitising

methylethyl)-

Carcinogenicity

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Benzene, (1-Overall evaluation: 2B. Possibly carcinogenic to humans.

methylethyl)-



Revision Date: 12/17/2019

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

(1- Reasonably Anticipated to be a Human Carcinogen. Benzene,

methylethyl)-

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

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

No data available. Product:

In vivo

Product: No data available.

Reproductive toxicity

No data available. **Product:**

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

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Aspiration Hazard

Product: No data available.

Specified substance(s):

Solvent naphtha May be fatal if swallowed and enters airways.

(petroleum), light arom.

Benzene, (1-methylethyl)-May be fatal if swallowed and enters airways.

Benzene, methyl(1-

methylethyl)-

May be fatal if swallowed and enters airways.

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

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

Cyclohexanone LC 50 (Fathead minnow (Pimephales promelas), 96 h): 696 - 770 mg/l

Mortality

LC 50 (Carp (Leuciscus idus melanotus), 48 h): 536 mg/l Mortality LC 50 (Carp (Leuciscus idus melanotus), 48 h): 752 mg/l Mortality LC 50 (Fathead minnow (Pimephales promelas), 96 h): 481 - 578 mg/l

Mortality

LC 50 (Fathead minnow (Pimephales promelas), 96 h): 630 mg/l Mortality

LC 50 (Pimephales promelas, 96 h): 7.72 mg/l Experimental result, Key Benzene, 1,2,4-trimethyl-

study

LL 50 (Oncorhynchus mykiss, 96 h): 10 mg/l Experimental result, Key study Solvent naphtha

(petroleum), light arom.



Revision Date: 12/17/2019

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

Benzene, (1-methylethyl)-LC 50 (Oncorhynchus mykiss, 96 h): 4.8 mg/l Experimental result, Key study

Benzene, dimethyl-LC 50 (Rainbow trout, donaldson trout (Oncorhynchus mykiss), 96 h): 6.702 -

10.032 mg/l Mortality

Benzene, methyl(1-

methylethyl)-

LC 50 (96 h): Estimated 5 mg/l

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

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

Cyclohexanone LC 50 (Water flea (Daphnia magna), 24 h): 800 mg/l Mortality

EC 100 (Daphnia magna, 24 h): 1,240 mg/l Experimental result, Weight of

Evidence study

EC 50 (Daphnia magna, 24 h): 820 mg/l Experimental result, Weight of

Evidence study

ED 0 (Daphnia magna, 24 h): 526 mg/l Experimental result, Weight of

Evidence study

LC 0 (Daphnia magna, 24 h): 540 mg/l Experimental result, Weight of

Evidence study

Benzene, 1,2,4-trimethyl-LC 50 (Daphnia magna, 48 h): 3.6 mg/l Experimental result, Key study

Solvent naphtha EC 50 (Daphnia magna, 48 h): 32 mg/l Experimental result, Supporting (petroleum), light arom.

NOAEL (Daphnia magna, 48 h): 0.5 mg/l Experimental result, Key study

Benzene, (1-methylethyl)-EC 10 (Daphnia magna, 48 h): 1.3 mg/l Experimental result, Key study

Benzene, dimethyl-LC 50 (Water flea (Daphnia magna), 24 h): 150 mg/l Mortality

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s): Solvent naphtha

NOAEL (Pimephales promelas): 2.6 mg/l Experimental result, Supporting

(petroleum), light arom. study

Benzene, (1-methylethyl)-NOAEL (Danio rerio; Pimephales promelas): 0.38 mg/l QSAR QSAR, Key

study

NOAEL (Oncorhynchus mykiss): > 1.3 mg/l Experimental result, Key study Benzene, dimethyl-

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

Solvent naphtha (petroleum), light arom. NOAEL (Daphnia magna): 16 mg/l Experimental result, Key study

Benzene, (1-methylethyl)-NOAEL (Daphnia magna): 0.35 mg/l Experimental result, Key study

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

Benzene, dimethyl-NOAEL (Ceriodaphnia dubia): 1.17 mg/l Read-across from supporting

substance (structural analogue or surrogate), Key study



Revision Date: 12/17/2019

Toxicity to Aquatic Plants

Product:

No data available.

Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s):

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

Cyclohexanone 87 % (14 d) Detected in water. Experimental result, Supporting study

90 - 100 % (28 d) Detected in water. Experimental result, Key study

Benzene, 1,2,4-trimethyl- 96 % (13 d) Detected in water. Experimental result, Weight of Evidence

study

80 % (5 d) Detected in water. Read-across from supporting substance

(structural analogue or surrogate), Weight of Evidence study

38 % (28 d) Detected in water. Read-across from supporting substance

(structural analogue or surrogate), Weight of Evidence study

92 % (28 d) Detected in water. Read-across from supporting substance

(structural analogue or surrogate), Weight of Evidence study

Solvent naphtha (petroleum), light arom.

74.76 % Detected in water. Experimental result, Supporting study 96.17 % (28 d) 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

Benzene, (1-methylethyl)- 70 % (20 d) Detected in water. Experimental result, Key study

2 % (60 d) Detected in water. Experimental result, Key study

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

(structural analogue or surrogate), Key study

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Specified substance(s):

Benzene, 1,2,4-trimethyl- Cyprinus carpio, Bioconcentration Factor (BCF): 33 - < 275 Aquatic

sediment Experimental result, Supporting study

Solvent naphtha (petroleum), light arom.

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

calculation, Key study

Benzene, (1-methylethyl)- Bioconcentration Factor (BCF): 94.69 Aquatic sediment Estimated by

calculation, Key study

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

sediment Experimental result, Key study

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Specified substance(s):

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

Benzene, methyl(1-

methylethyl)-

Log Kow: Estimated 5

SDS US - RE1000007897



Revision Date: 12/17/2019

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

Benzene, trimethyl-No data available. **Butane** No data available. Cyclohexanone No data available. Benzene, 1,2,4-trimethyl-No data available. Solvent naphtha (petroleum), light arom. No data available. Propane No data available. Benzene, (1-methylethyl)-No data available. Benzene, dimethyl-No data available. Benzene, methyl (1-methylethyl)-No data available.

Other adverse effects: Harmful 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

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: –



Revision Date: 12/17/2019

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)

Skin

Chemical Identity
Benzene

Cancer
Aspiration
Eye
Blood

respiratory tract irritation Central nervous system

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	Reportable quantity
Butane	lbs. 100
Cyclohexanone	lbs. 5000
Propane	lbs. 100
Benzene, (1-methylethyl)-	lbs. 5000
Benzene, dimethyl-	lbs. 100
Benzene	lbs. 10
Benzene, ethyl-	lbs. 1000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Fire Hazard

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

Flammable aerosol

Acute toxicity

Skin Corrosion/Irritation

Serious Eye Damage/Eye Irritation

Carcinogenicity
Aspiration Hazard

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

Chemical Identity	Reportable quantity
Butane	lbs. 100
Cyclohexanone	lbs. 5000
Propane	lbs. 100
Benzene, (1-methylethyl)-	lbs. 5000
Benzene, dimethyl-	lbs. 100
Benzene	lbs. 10
Benzene, ethyl-	lbs. 1000



Revision Date: 12/17/2019

SARA 311/312 Hazardous Chemical

Threshold Planning Quantity
10000 lbs

SARA 313 (TRI Reporting)

	Reporting threshold for	Reporting threshold for
Chemical Identity	other users	manufacturing and processing
Benzene, 1,2,4-trimethyl-	lbs	lbs.
Benzene, (1-methylethyl)-	lbs	lbs.
Benzene, dimethyl-	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, (1-methylethyl)- Carcinogenic. 05 2011

Benzene Developmental toxin. 03 2008

Benzene Carcinogenic. 05 2011

Benzene Male reproductive toxin. 03 2008

Benzene, ethyl- Carcinogenic. 05 2011

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

Chemical Identity

Benzene, trimethyl-

Butane

Cyclohexanone

Benzene, 1,2,4-trimethyl-

Propane

Benzene, (1-methylethyl)-

Benzene, dimethyl-

Benzene, methyl(1-methylethyl)-

US. Massachusetts RTK - Substance List

Chemical Identity

Benzene

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Benzene, trimethyl-

Butane

Cyclohexanone

Benzene, 1,2,4-trimethyl-

Propane

Benzene, (1-methylethyl)-

Benzene, dimethyl-



Revision Date: 12/17/2019

US. Rhode Island RTK

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

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:

On or 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: On or in compliance with the inventory

New Zealand Inventory of Chemicals: Not 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: 12/17/2019

Revision Information: No data available.

Version #: 1.0

Further Information: No data available.

Disclaimer: This information is provided without warranty. The information is believed to

be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.