



Univar  
3075 Highland Pkwy STE 200  
Downers Grove, IL 60515  
425-889-3400

# SAFETY DATA SHEET

## 1. Identification

**Product identifier:** VM&P NAPHTHA

### Other means of identification

**SDS number:** 000100000061

### Recommended use and restriction on use

**Recommended use:** Reserved for industrial and professional use.

**Restrictions on use:** Not known.

### Manufacturer/Importer/Supplier/Distributor Information

Univar

3075 Highland Pkwy STE 200

Downers Grove, IL 60515

425-889-3400

**Emergency telephone number:** For emergency assistance Involving chemicals

call CHEMTREC day or night at: 1-800-424-9300. CHEMTREC INTERNATIONAL Tel# 703-527-3887

## 2. Hazard(s) identification

### Hazard Classification

#### Physical Hazards

Flammable liquids Category 2

#### Health Hazards

Skin Corrosion/Irritation Category 2

Aspiration Hazard Category 2

Carcinogenicity Category 1A

Toxic to reproduction Category 2

**Environmental Hazards** Acute hazards to the aquatic environment Category 3

Acute hazards to the aquatic environment      Category 2  
Chronic hazards to the aquatic environment      Category 1

**Label Elements**

**Hazard Symbol**



**Signal Word**      Danger

**Hazard Statement**      Highly flammable liquid and vapor.  
Causes skin irritation.  
May cause cancer.  
Suspected of damaging fertility or the unborn child.  
May be harmful if swallowed and enters airways.  
Very toxic to aquatic life with long lasting effects.

**Precautionary Statements**

**Prevention**      Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof [electrical/ventilating/lighting/...] equipment. Use non-sparking tools. Take action to prevent static discharges. 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 ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. If skin irritation occurs: Get medical advice/attention. IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. IF exposed or concerned: Get medical advice/attention. Specific treatment (see on this label). Take off contaminated clothing. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

**Storage** Store in a well-ventilated place. Keep cool. 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.

**Other hazards which do not result in GHS classification** Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

### 3. Composition/information on ingredients

## Substances

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Naphtha (petroleum), hydrotreated light		64742-49-0	<=100%
Distillates (petroleum), light distillate hydrotreating process, low-boiling		68410-97-9	<=100%
Ethylbenzene		100-41-4	<=0.10%
Toluene		108-88-3	<=0.10%
Benzene		71-43-2	<=0.01%
Naphthalene		91-20-3	<=0.01%

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

**Composition Comments:** The components are not hazardous or are below required disclosure limits.  
The components are not hazardous or are below required disclosure limits.

## 4. First-aid measures

**General information:** Get medical attention if symptoms occur.

**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. If breathing is difficult, give oxygen. Perform artificial respiration if breathing has stopped.

**Skin Contact:** Take off immediately all contaminated clothing. 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:** If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

**Most important symptoms/effects, acute and delayed**

**Symptoms:** 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. Water may be ineffective in fighting the fire. 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: Foam. Water Spray or Fog. Carbon dioxide or dry powder.

**Unsuitable extinguishing media:** Avoid water in straight hose stream; will scatter and spread fire.

**Specific hazards arising from the chemical:** Vapors may travel considerable distance to a source of ignition and flash back. Vapors may cause a flash fire or ignite explosively. Prevent buildup of vapors or gases to explosive concentrations.

**Special protective equipment and precautions for firefighters**

**Special fire fighting procedures:** May travel considerable distance to source of ignition and flash back.

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

**Methods and material for containment and cleaning up:** All equipment used when handling the product must be grounded. Eliminate sources of ignition. Absorb spillage with non-combustible, absorbent material. Dike for later disposal.

**Notification Procedures:** Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk.

**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:** Flammable/combustible - Keep away from oxidizers, heat and flames. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond container and receiving equipment. Take precautionary measures against static discharges. Avoid contact with skin. Wash hands thoroughly after handling.

**Conditions for safe storage, including any incompatibilities:** Keep container tightly closed. Protect from sunlight. Store locked up. Store in a well-ventilated place. Store in a cool place.

**8. Exposure controls/personal protection**

**Control Parameters**

**Occupational Exposure Limits**

Chemical Identity	Type	Exposure Limit Values	Source
Distillates (petroleum), light distillate hydrotreating process, low-boiling - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (03 2013)
Distillates (petroleum), light distillate hydrotreating process, low-boiling - Mist.	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	STEL	10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	5 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
Distillates (petroleum), light distillate	ST ESL	1,000 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental

hydrotreating process, low-boiling			Quality) (02 2013)
	AN ESL	100 µg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
Distillates (petroleum), light distillate hydrotreating process, low-boiling - Mist.	TWA PEL	5 mg/m <sup>3</sup>	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (02 2012)
Ethylbenzene	TWA	100 ppm 435 mg/m <sup>3</sup>	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	STEL	125 ppm 545 mg/m <sup>3</sup>	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	AN ESL	570 µg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	ST ESL	740 µg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	ST ESL	170 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	AN ESL	135 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	TWA PEL	100 ppm 435 mg/m <sup>3</sup>	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (02 2012)
	STEL	125 ppm 545 mg/m <sup>3</sup>	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (02 2012)
	TWA	20 ppm	US. ACGIH Threshold Limit Values (03 2016)
	REL	100 ppm 435 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	STEL	125 ppm 545 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	100 ppm 435 mg/m <sup>3</sup>	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

				(03 2016)
	TWA	100 ppm	435 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	125 ppm	545 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Toluene	TWA	100 ppm	375 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	STEL	150 ppm	580 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	AN ESL		1,200 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	ST ESL		3,470 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	ST ESL		920 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	AN ESL		330 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	Ceiling	500 ppm		US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (02 2012)
	TWA PEL	10 ppm	37 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (02 2012)
	STEL	150 ppm	560 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (02 2012)
	TWA	20 ppm		US. ACGIH Threshold Limit Values (03 2016)
	STEL	150 ppm	560 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	REL	100 ppm	375 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	STEL	150 ppm	560 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	100 ppm	375	US. OSHA Table Z-1-A (29 CFR



		mg/m3	1910.1000) (1989)
	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)
	Ceiling	300 ppm	US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
Benzene	TWA	0.5 ppm	US. ACGIH Threshold Limit Values (03 2013)
	STEL	2.5 ppm	US. ACGIH Threshold Limit Values (03 2013)
	REL	0.1 ppm	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	STEL	1 ppm	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	TWA	1 ppm	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (03 2012)
	STEL	5 ppm	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (03 2012)
	OSHA_A CT	0.5 ppm	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (03 2012)
	TWA	1 ppm	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	5 ppm	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	MAX. CONC	50 ppm	US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	TWA	10 ppm	US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	Ceiling	25 ppm	US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	Ceiling	50 ppm	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	STEL	25 ppm	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	TWA	10 ppm	US. Tennessee. OELs. Occupational

			Exposure Limits, Table Z1A (06 2008)
	ST ESL	54 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	AN ESL	1.4 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	AN ESL	4.5 µg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	ST ESL	170 µg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	TWA PEL	1 ppm	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (02 2012)
	STEL	5 ppm	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (02 2012)
	TWA A LV	0.5 ppm	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (02 2012)
Naphthalene	STEL	15 ppm	US. ACGIH Threshold Limit Values (03 2013)
	TWA	10 ppm	US. ACGIH Notice of Intended Changes (NIC) to Threshold Limit Values (03 2013)
	TWA	10 ppm 50 mg/m <sup>3</sup>	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	STEL	15 ppm 75 mg/m <sup>3</sup>	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	ST ESL	200 µg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	AN ESL	50 µg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	ST ESL	38 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)

			Quality) (02 2013)
	AN ESL	10 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	TWA PEL	10 ppm 50 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (02 2012)
	STEL	15 ppm 75 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (02 2012)
	TWA	10 ppm	US. ACGIH Threshold Limit Values (03 2016)
	STEL	15 ppm 75 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	REL	10 ppm 50 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	10 ppm 50 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (03 2016)
	TWA	10 ppm 50 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	15 ppm 75 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)

**Biological Limit Values**

Chemical Identity	Exposure Limit Values	Source
Ethylbenzene (Sum of mandelic acid and phenylglyoxylic acid: Sampling time: End of shift at end of work week.)	0.7 g/g (Creatinine in urine)	ACGIH BEL (03 2013)
Toluene (o-Cresol, with hydrolysis: Sampling time: End of shift.)	0.3 mg/g (Creatinine in urine)	ACGIH BEL (03 2013)
Toluene (toluene: Sampling time: Prior to last shift of work	0.02 mg/l (Blood)	ACGIH BEL (03 2013)

week.)		
Toluene (toluene: Sampling time: End of shift.)	0.03 mg/l (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 (S-Phenylmercapturic acid: Sampling time: End of shift.)	25 µg/g (Creatinine in urine)	ACGIH BEL (03 2013)

**Appropriate Engineering Controls**

Adequate ventilation should be provided so that exposure limits are not exceeded. Provide eyewash station and safety shower.

**Individual protection measures, such as personal protective equipment**

**General information:**

Use explosion-proof ventilation equipment. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide easy access to water supply and eye wash facilities.

**Eye/face protection:**

Wear approved safety goggles. Wear safety glasses with side shields (or goggles).

**Skin Protection**

**Hand Protection:**

Wear chemical-resistant gloves. Contact glove manufacturer for specific information.

**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:**

Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.

**Hygiene measures:**

Do not eat, drink or smoke when using the product. Observe good industrial hygiene practices. Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. When using do not smoke. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Wash contaminated clothing before reuse. Avoid contact with skin.

## 9. Physical and chemical properties

<b>Physical state:</b>	liquid
<b>Form:</b>	Clear Liquid
<b>Color:</b>	Colorless
<b>Odor:</b>	characteristic of hydrocarbons
<b>Odor threshold:</b>	No data available.
<b>pH:</b>	No data available.
<b>Melting point/freezing point:</b>	No data available.
<b>Initial boiling point and boiling range:</b>	118 - 148 °C
<b>Flash Point:</b>	15 - 21 °C
<b>Evaporation rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Upper/lower limit on flammability or explosive limits</b>	
<b>Flammability limit - upper (%):</b>	No data available.
<b>Flammability limit - lower (%):</b>	No data available.
<b>Explosive limit - upper (%):</b>	No data available.
<b>Explosive limit - lower (%):</b>	No data available.
<b>Vapor pressure:</b>	No data available.
<b>Vapor density:</b>	No data available.
<b>Relative density:</b>	0.735 - 0.76
<b>Solubility(ies)</b>	
<b>Solubility in water:</b>	No data available.
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Auto-ignition temperature:</b>	No data available.
<b>Decomposition temperature:</b>	No data available.
<b>Viscosity:</b>	No data available.

## 10. Stability and reactivity

**Reactivity:** No data available.

<b>Chemical Stability:</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions:</b>	No data available.
<b>Conditions to avoid:</b>	Keep away from sources of ignition - No smoking. Heat, sparks, flames.
<b>Incompatible Materials:</b>	Strong oxidizing agents.
<b>Hazardous Decomposition Products:</b>	No data available.

## 11. Toxicological information

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

<b>Ingestion:</b>	No data available.
<b>Inhalation:</b>	No data available.
<b>Skin Contact:</b>	No data available.
<b>Eye contact:</b>	No data available.

### Information on toxicological effects

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

##### Oral

**Product:** LD 50 (Rat): > 5,200 mg/kg (, Yes ) 1 = reliable without restrictions

##### Dermal

**Product:** LD 50 (Rabbit): > 2,000 mg/kg (, Yes)  
2 = reliable with restrictions

##### Inhalation

**Product:** LC 50 (Rat, ): > 5,240 mg/m3 (, Yes) 1 = reliable without restrictions

##### Repeated dose toxicity

**Product:** No data available.

##### Skin Corrosion/Irritation

**Product:** No data available.

##### Serious Eye Damage/Eye Irritation

**Product:** No data available.

##### Specified substance(s):

Ethylbenzene Exposure to a concentration of 5000 ppm causes intolerable irritation of the eyes  
Exposure to 21.5 g/m3 (5000 ppm) ethylbenzene for a few seconds gives intolerable irritation of nose, eyes, and throat  
Concentration of 200 ppm causes irritation of eyes

##### Specified substance(s):

Naphthalene At concentrations of 15 ppm in air.

##### Respiratory or Skin Sensitization

**Product:** No data available.

##### Carcinogenicity

**Product:** No data available.

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

Distillates	Overall evaluation: 3. Not classifiable as to carcinogenicity to humans.
(petroleum), light distillate hydrotreating process, low- boiling	Overall evaluation: 1. Carcinogenic to humans.
Ethylbenzene	Overall evaluation: 2B. Possibly carcinogenic to humans.

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

Distillates	Known To Be Human Carcinogen.
(petroleum), light distillate hydrotreating process, low- boiling	

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

**Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.

**Aspiration Hazard**

**Product:** 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):**

Ethylbenzene LC 50 (Rainbow trout,donaldson trout (*Oncorhynchus mykiss*), 96 h): 11 - 18 mg/l Mortality LC 50 (Fathead minnow (*Pimephales promelas*), 96 h): 7.551 - 11.01 mg/l Mortality LC 50 (Bluegill (*Lepomis macrochirus*), 24 h): 113 - 226 mg/l Mortality LC 50 (Fathead minnow (*Pimephales promelas*), 48 h): 33.52 - 53.47 mg/l Mortality LC 50 (Sheepshead minnow (*Cyprinodon variegatus*), 96 h): 260 - 290 mg/l Mortality

Toluene LC 50 (Western mosquitofish (*Gambusia affinis*), 24 h): 1,340 mg/l Mortality LC 50 (Fathead minnow (*Pimephales promelas*), 96 h): 23 - 32 mg/l Mortality LC 50 (Bluegill (*Lepomis macrochirus*), 96 h): 279 - 415 mg/l Mortality LC 50 (Goldfish (*Carassius auratus*), 48 h): 21.58 - 36.01 mg/l Mortality

Benzene LC 50 (Fathead minnow (*Pimephales promelas*), 48 h): 26.74 - 43.67 mg/l Mortality LC 50 (Medaka, high-eyes (*Oryzias latipes*), 24 h): 54 mg/l Mortality LC 50 (Guppy (*Poecilia reticulata*), 48 h): 28.63 - 54.43 mg/l Mortality LC 50 (Bluegill (*Lepomis macrochirus*), 24 h): 343 - 981 mg/l Mortality LC 50 (Medaka, high-eyes (*Oryzias latipes*), 24 h): 70 mg/l Mortality

Naphthalene LC 50 (Rainbow trout,donaldson trout (*Oncorhynchus mykiss*), 23 d): 0.1 - 0.14 mg/l Mortality LC 50 (Western mosquitofish (*Gambusia affinis*), 24 h): 220 mg/l Mortality LC 50 (Rainbow trout,donaldson trout (*Oncorhynchus mykiss*), 96 h): 4.5 mg/l Mortality LC 50 (Fathead minnow (*Pimephales promelas*), 24 h): 7.39 - 8.14 mg/l Mortality LC 50 (Tigerfish, crescent perch (*Therapon jarbua*), 72 h): 18 mg/l Mortality

**Aquatic Invertebrates**

**Product:** No data available.

**Specified substance(s):**

Ethylbenzene LC 50 (Opossum shrimp (*Americamysis bahia*), 48 h): > 5.2 mg/l Mortality LC 50 (Opossum shrimp (*Americamysis bahia*), 24 h): > 5.2 mg/l Mortality LC 50 (Brine shrimp (*Artemia* sp.), 48 h): 3.91 - 13.7 mg/l Mortality LC 50 (Water flea (*Daphnia magna*), 48 h): 50 - 120 mg/l Mortality LC 50 (Water flea (*Daphnia magna*), 48 h): 10.6 - 17.2 mg/l Mortality

Toluene EC 50 (Water flea (*Daphnia magna*), 48 h): < 9.83 mg/l Intoxication LC 50 (Water flea (*Daphnia magna*), 48 h): 240 - 420 mg/l Mortality LC 50 (Pond



snail, pulmonate snail (*Physa heterostropha*), 96 h): 55.6 mg/l Mortality  
LC 50 (Dungeness or edible crab (*Cancer magister*), 48 h): 170 mg/l  
Mortality LC 50 (Shrimp (*Eualus*), 24 h): 17.9 mg/l Mortality

Benzene LC 50 (Water flea (*Daphnia cucullata*), 48 h): 356 mg/l Mortality LC 50  
(Water flea (*Daphnia magna*), 48 h): 356 mg/l Mortality LC 50 (Pacific oyster  
(*Crassostrea gigas*), 48 h): 377 mg/l Mortality LC 50 (Water flea (*Daphnia*  
*cucullata*), 48 h): 390 mg/l Mortality LC 50 (Water flea (*Daphnia magna*), 48  
h): 400 mg/l Mortality

Naphthalene LC 50 (Scud (*Gammarus minus*), 48 h): 3.93 mg/l Mortality LC 50 (Water flea  
(*Daphnia pulex*), 48 h): 2.92 - 3.89 mg/l Mortality LC 50 (Brine shrimp  
(*Artemia* sp.), 48 h): 6.54 - 13.1 mg/l Mortality LC 50 (Shrimp  
(*Macrobrachium kistnensis*), 24 h): > 4 - 6 mg/l Mortality LC 50 (Shore crab  
(*Hemigrapsus nudus*), 8 d): 1.1 - 2.8 mg/l Mortality

**Chronic hazards to the aquatic environment:**

**Fish**

**Product:** No data available.

**Aquatic Invertebrates**

**Product:** No data available.

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Persistence and Degradability**

**Biodegradation**

**Product:** No data available.

**BOD/COD Ratio**

**Product:** No data available.

**Bioaccumulative potential**

**Bioconcentration Factor (BCF)**

**Product:** No data available.

**Specified substance(s):**

Toluene  
Shore crab (*Hemigrapsus nudus*), Bioconcentration Factor (BCF): 31 (Flow through)  
Green algae (*Selenastrum capricornutum*), Bioconcentration Factor (BCF): 3,016 (Static)  
Green algae (*Chlorella fusca*), Bioconcentration Factor (BCF): 380 (Not reported)  
Green algae (*Chlorella fusca vacuolata*), Bioconcentration Factor (BCF): 380 (Static)  
Ide, silver or golden orfe (*Leuciscus idus*), Bioconcentration Factor (BCF): 94 (Not reported)

Benzene  
Rotifer (*Brachionus plicatilis*), Bioconcentration Factor (BCF): 100 (Static)  
Northern anchovy (*Engraulis mordax*), Bioconcentration Factor (BCF): 34.3 (Static)  
Northern anchovy (*Engraulis mordax*), Bioconcentration Factor (BCF): 30 (Static)  
Striped bass (*Morone saxatilis*), Bioconcentration Factor (BCF): 53.4 (Static)  
Northern anchovy (*Engraulis mordax*), Bioconcentration Factor (BCF): 8,450 (Static)

**Partition Coefficient n-octanol / water (log Kow)**

**Product:** No data available.

**Specified substance(s):**

Ethylbenzene Log Kow: 3.15

Toluene Log Kow: 2.73

Benzene Log Kow: 2.13

Naphthalene Log Kow: 3.30

**Mobility in soil:** No data available.

**Known or predicted distribution to environmental compartments**

Naphtha (petroleum), hydrotreated light Distillates (petroleum), light distillate hydrotreating process, low- boiling	No data available.
Ethylbenzene	No data available.
Toluene	No data available.
Benzene	No data available.
Naphthalene	No data available.

**Known or predicted distribution to environmental compartments**

Distillates (petroleum), light distillate hydrotreating process, low- boiling	No data available.
Ethylbenzene	No data available.
Toluene	No data available.
Benzene	No data available.
Naphthalene	No data available.

**13. Disposal considerations**

<b>Disposal instructions:</b>	All waste must be handled in accordance with Waste Act (No. 185/2001 Coll.), as amended, and related regulations, as amended. Discharge, treatment, or disposal may be subject to national, state, or local laws.
<b>Contaminated Packaging:</b>	Since emptied containers retain product residue, follow label warnings even after container is emptied.

**14. Transport information**

<b>DOT</b>	
UN Number:	UN 1268
UN Proper Shipping Name:	Petroleum distillates, n.o.s.
Transport Hazard Class(es)	
Class:	3
Label(s):	3
Packing Group:	II
Marine Pollutant:	Marine Pollutant

Special precautions for user: –

**IMDG**

UN Number: UN 1268  
UN Proper Shipping Name: PETROLEUM DISTILLATES, N.O.S.  
Transport Hazard Class(es)  
Class: 3  
Label(s): 3  
EmS No.: F-E, S-E  
Packing Group: II  
Marine Pollutant: Marine Pollutant  
Special precautions for user: –

**IATA**

UN Number: UN 1268  
Proper Shipping Name: Petroleum distillates, n.o.s.  
Transport Hazard Class(es):  
Class: 3  
Label(s): 3  
Packing Group: II  
Environmental Hazards: Marine Pollutant  
Special precautions for user: –  
Other information  
Passenger and cargo aircraft: Allowed.  
Cargo aircraft only: Allowed.

**15. Regulatory information**

**US Federal Regulations US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Benzene  
 Flammability  
 Central nervous system  
 Skin  
 respiratory tract irritation  
 Blood  
 Aspiration  
 Eye  
 Cancer

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

Ethylbenzene Reportable quantity: 1000 lbs.  
 Toluene Reportable quantity: 1000 lbs.  
 Benzene Reportable quantity: 10 lbs.  
 Naphthalene Reportable quantity: 100 lbs.

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

**Hazard categories**

Acute (Immediate)  Chronic (Delayed)  Fire  Reactive  Pressure Generating

**SARA 302 Extremely Hazardous Substance**

None present or none present in regulated quantities.

**SARA 304 Emergency Release Notification**

Chemical Identity	RQ
Ethylbenzene	1000 lbs.
Toluene	1000 lbs.
Benzene	10 lbs.
Naphthalene	100 lbs.

**SARA 311/312 Hazardous Chemical**

Chemical Identity	Threshold Planning Quantity
Distillates (petroleum), light distillate hydrotreating process, low-boiling	500 lbs
Ethylbenzene	500 lbs
Toluene	500 lbs
Benzene	500 lbs
Naphthalene	500 lbs

**SARA 313 (TRI Reporting)**

Chemical Identity	Reporting	Reporting threshold for
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	<b>threshold for other users</b>	<b>manufacturing and processing</b>
Ethylbenzene	10000 lbs	25000 lbs.

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

Ethylbenzene	Reportable quantity: 1000 lbs.
Toluene	Reportable quantity: 1000 lbs.
Benzene	Reportable quantity: 10 lbs.
Naphthalene	Reportable quantity: 100 lbs.

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

None present or none present in regulated quantities.

**US State Regulations**

**US. California Proposition 65**

WARNING: This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm. [WWW.P65Warnings.ca.gov](http://WWW.P65Warnings.ca.gov)

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

Distillates (petroleum), light distillate hydrotreating process, low-boiling	Listed
Ethylbenzene	Listed

**US. Massachusetts RTK - Substance List**

Distillates (petroleum), light distillate hydrotreating process, low-boiling	Listed
Benzene	Listed

**US. Pennsylvania RTK - Hazardous Substances**

Distillates (petroleum), light distillate hydrotreating process, low-boiling	Listed
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**US. Rhode Island RTK**

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

**Inventory Status:**EINECS, ELINCS or NLP: On or in compliance with the inventory  
US TSCA Inventory: On or in compliance with the inventory

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

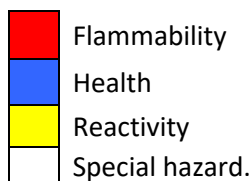
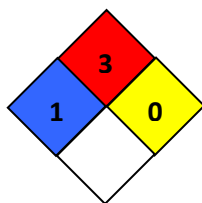
**HMIS Hazard ID**

<b>Health</b>	*	<b>1</b>
<b>Flammability</b>		<b>3</b>
<b>Physical Hazards</b>		<b>0</b>
<b>PERSONAL PROTECTION</b>		<b>K</b>

K - Hood, Gloves, Protective Suit & Boots

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; \*Chronic health effect

**NFPA Hazard ID**



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

**Issue Date:** 08/12/2019  
**Revision Date:** No data available.  
**Version #:** 1.3  
**Further Information:** No data available.