

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 04/13/2018 Revision date: 06/19/2018 Supersedes: 09/14/2015

## **SECTION 1: Identification**

Identification

Product form : Substance

Trade name : Diesel Secondary Reference Fuel U

Chemical name CAS-No. : 68476-34-6 Product code : HF3008 Formula : Unspecified

: Diesel oil. No. 2 / Diesel No. 2 / Diesel fuel No. 2 / Diesel fuel oil no. 2-D / Fuel oil, no. 2-D / Svnonvms

Fuels, diesel, No. 2 / Diesel fuel no. 2 / Diesel oil No. 2 / Fuels, diesel, no. 2 (A distillate oil having a minimum viscosity of 32.6 SUS at 37.7°C (100°F) to a maximum of 40.1 SUS at

37.7°C (100°F).) / Fuels, diesel, No 2 / Fuel oil No. 2-D

Recommended use and restrictions on use

Use of the substance/mixture : Fuel for engine development and testing

1.3. **Supplier** 

Haltermann Solutions™ 15600 W Hardy Rd. Houston, TX 77015 - USA T 1-800-969-2542 - F 281-457-1469 qdunford@jhaltermann.com

**Emergency telephone number** 

**Emergency number** : 24 HR CHEMTREC: 1-800-424-9300; Emergency Assistance: 1-800-969-2542 (8 AM to 5 PM

### SECTION 2: Hazard(s) identification

#### Classification of the substance or mixture

#### **GHS-US** classification

Flammable liquids H226 Flammable liquid and vapour

Category 3 Acute toxicity H332 Harmful if inhaled

(inhalation:dust,mist)

Category 4

Skin corrosion/irritation H315 Causes skin irritation

Category 2

Serious eye damage/eye irritation Category 2 Causes serious eye irritation H319

Germ cell mutagenicity H340 May cause genetic defects

Category 1B Carcinogenicity Category 2 H351 Suspected of causing cancer

Reproductive toxicity Suspected of damaging fertility or the unborn child H361

Category 2

H336 Specific target organ May cause drowsiness or dizziness

toxicity (single exposure) Category 3

Specific target organ H335

May cause respiratory irritation toxicity (single exposure)

Category 3 Specific target organ H373 May cause damage to organs through prolonged or repeated exposure

toxicity (repeated exposure)

Category 2 Aspiration hazard Category H304 May be fatal if swallowed and enters airways

Hazardous to the aquatic H401 Toxic to aquatic life environment - Acute

Hazard Category 2

Hazardous to the aquatic H411 Toxic to aquatic life with long lasting effects environment - Chronic

Hazard Category 2 Full text of H statements: see section 16

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## GHS Label elements, including precautionary statements

#### **GHS-US** labeling

Hazard pictograms (GHS-US)

Precautionary statements (GHS-US)









Signal word (GHS-US) : Danger

Hazard statements (GHS-US)

: H226 - Flammable liquid and vapour

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H319 - Causes serious eve irritation

H332 - Harmful if inhaled

H335 - May cause respiratory irritation H336 - May cause drowsiness or dizziness H340 - May cause genetic defects H351 - Suspected of causing cancer

H361 - Suspected of damaging fertility or the unborn child

H373 - May cause damage to organs through prolonged or repeated exposure

H401 - Toxic to aquatic life

H411 - Toxic to aquatic life with long lasting effects

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233 - Keep container tightly closed.

P240 - Ground/Bond container and receiving equipment

P241 - Use explosion-proof electrical/ventilating/lighting equipment

P242 - Use only non-sparking tools.

P243 - Take precautionary measures against static discharge.

P260 - Do not breathe dust/fume/gas/mist/vapors/spray.

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 - Wash hands, forearms and face thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.

P273 - Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310 - If swallowed: Immediately call a doctor, a POISON CENTER

P302+P352 - If on skin: Wash with plenty of soap and water

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/shower

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P308+P313 - If exposed or concerned: Get medical advice/attention. P312 - Call a doctor, a POISON CENTER if you feel unwell

P314 - Get medical advice/attention if you feel unwell.

P321 - Specific treatment (see supplemental first aid instruction on this label)

P331 - Do NOT induce vomiting.

P332+P313 - If skin irritation occurs: Get medical advice/attention.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P370+P378 - In case of fire: Use alcohol resistant foam, carbon dioxide (CO2), dry

extinguishing powder to extinguish.

P391 - Collect spillage.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P403+P235 - Store in a well-ventilated place. Keep cool.

P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

#### Other hazards which do not result in classification

No additional information available

#### 2.4. **Unknown acute toxicity (GHS US)**

Not applicable

### **SECTION 3: Composition/Information on ingredients**

## **Substances**

: Diesel Chemical name

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CAS-No. : 68476-34-6

Name	Product identifier	%
Diesel	(CAS-No.) 68476-34-6	100
Petroleum Distillates	(CAS-No.) 8002-05-9	70 - 80
Petroleum distillates, hydrotreated light	(CAS-No.) 64742-47-8	5 - 15
Solvent naphtha (petroleum), heavy arom.; Kerosine - unspecified, [A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 165 °C to 290 °C (330 °F to 554 °F).]	(CAS-No.) 64742-94-5	5 - 15
Distillates, petroleum, hydrotreated middle	(CAS-No.) 64742-46-7	0 - 10
Solvent naphtha, petroleum, light aromatic	(CAS-No.) 64742-95-6	0 - 5
xylene	(CAS-No.) 1330-20-7	0 - 4
naphthalene	(CAS-No.) 91-20-3	0 - 3
n-hexane	(CAS-No.) 110-54-3	0 - 2
n-Heptane	(CAS-No.) 142-82-5	0 - 2
Octane	(CAS-No.) 111-65-9	0 - 2
Trimethylbenzenes	(CAS-No.) 25551-13-7	0 - 2
1,2,4-trimethylbenzene	(CAS-No.) 95-63-6	0 - 2
1,3,5-Trimethylbenzene	(CAS-No.) 108-67-8	0 - 2
Cumene	(CAS-No.) 98-82-8	0 - 2

Full text of hazard classes and H-statements: see section 16

#### 3.2. Mixtures

Not applicable

## **SECTION 4: First-aid measures**

## 4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a poison

center/doctor/physician if you feel unwell.

First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. If skin

irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : 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.

First-aid measures after ingestion : Do not induce vomiting. Call a physician immediately.

#### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects : May cause drowsiness or dizziness. Symptoms/effects after inhalation : May cause respiratory irritation.

Symptoms/effects after skin contact : Irritation.

Symptoms/effects after eye contact : Eye irritation.

Symptoms/effects after ingestion : Risk of lung edema.

## 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

### **SECTION 5: Fire-fighting measures**

## 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

#### 5.2. Specific hazards arising from the chemical

Fire hazard : Flammable liquid and vapour.

Reactivity : Flammable liquid and vapour.

#### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

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#### **SECTION 6: Accidental release measures**

#### Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

**Emergency procedures** 

: No open flames, no sparks, and no smoking. Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe dust/fume/gas/mist/vapors/spray.

#### 6.1.2. For emergency responders

Protective equipment

: Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

#### **Environmental precautions** 6.2.

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

#### Methods and material for containment and cleaning up

For containment

: Collect spillage.

Methods for cleaning up

Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public

waters.

Other information

: Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

## **SECTION 7: Handling and storage**

#### Precautions for safe handling

Precautions for safe handling

- : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.

Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after

handling the product.

#### Conditions for safe storage, including any incompatibilities

Technical measures

Hygiene measures

: Ground/bond container and receiving equipment.

Storage conditions

: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

## **SECTION 8: Exposure controls/personal protection**

#### 8.1. **Control parameters**

Diesel (68476-34-6)			
ACGIH	Local name	Diesel fuel as total	
ACGIH	ACGIH TWA (mg/m³)	100 mg/m³ (inhalable fraction and vapor)	
ACGIH	Regulatory reference	ACGIH 2018	
Petroleum Distillates (8002-0	5-9)		
OSHA	OSHA PEL (TWA) (ppm)	500 ppm	
IDLH	US IDLH (ppm)	1100 ppm (10% LEL)	
NIOSH	NIOSH REL (TWA) (mg/m³)	350 mg/m³	
NIOSH	NIOSH REL (ceiling) (mg/m³)	1800 mg/m³	
Petroleum distillates, hydrot	Petroleum distillates, hydrotreated light (64742-47-8)		
OSHA	OSHA PEL (TWA) (ppm)	500 ppm	
Distillates, petroleum, hydro	Distillates, petroleum, hydrotreated middle (64742-46-7)		
OSHA	OSHA PEL (TWA) (ppm)	500 ppm	

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n-hexane (110-54-3)		
ACGIH	Local name	n-Hexane
ACGIH	ACGIH TWA (ppm)	50 ppm
ACGIH	Remark (ACGIH)	CNS impair; peripheral neuropathy; eye irr; Skin; BEI
ACGIH	Regulatory reference	ACGIH 2018
OSHA	OSHA PEL (TWA) (mg/m³)	1800 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	500 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA
IDLH	US IDLH (ppm)	1100 ppm (10% LEL)
NIOSH	NIOSH REL (TWA) (mg/m³)	180 mg/m³
NIOSH	NIOSH REL (TWA) (ppm)	50 ppm
n-Heptane (142-82-5)		
ACGIH	Local name	Heptane, all isomers
ACGIH	ACGIH TWA (ppm)	400 ppm
ACGIH	ACGIH STEL (ppm)	500 ppm
ACGIH	Regulatory reference	ACGIH 2018
OSHA	OSHA PEL (TWA) (mg/m³)	2000 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	500 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA
IDLH	US IDLH (ppm)	750 ppm
NIOSH	NIOSH REL (TWA) (mg/m³)	350 mg/m³
NIOSH	NIOSH REL (TWA) (ppm)	85 ppm
NIOSH	NIOSH REL (ceiling) (mg/m³)	1800 mg/m³
NIOSH	NIOSH REL (ceiling) (ppm)	440 ppm
Octane (111-65-9)		
ACGIH	Local name	Octane
ACGIH	ACGIH TWA (ppm)	300 ppm
ACGIH	Remark (ACGIH)	URT irr
ACGIH	Regulatory reference	ACGIH 2018
OSHA	OSHA PEL (TWA) (mg/m³)	2350 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	500 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA
IDLH	US IDLH (ppm)	1000 ppm (10% LEL)
NIOSH	NIOSH REL (TWA) (mg/m³)	350 mg/m³
NIOSH	NIOSH REL (TWA) (ppm)	75 ppm
NIOSH	NIOSH REL (ceiling) (mg/m³)	1800 mg/m³
NIOSH	NIOSH REL (ceiling) (ppm)	385 ppm
Solvent naphtha (petroleum), heavy arom.; Kerosine - unspecified, [A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 165 °C to 290 °C (330 °F to 554 °F).] (64742-94-5)		
OSHA	OSHA PEL (TWA) (ppm)	500 ppm
naphthalene (91-20-3)		
ACGIH	Local name	Naphthalene
ACGIH	ACGIH TWA (ppm)	10 ppm

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naphthalene (91-20-	3)	
ACGIH	Remark (ACGIH)	Hematologic eff; URT & eye irr; Skin; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans: The agent is carcinogenic in experimental animals at a relatively high dose, by route(s) of administration, at site(s), of histologic type(s), or by mechanism(s) that may not be relevant to worker exposure. Available epidemiologic studies do not confirm an increased risk of cancer in exposed humans. Available evidence does not suggest that the agent is likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure)
ACGIH	Regulatory reference	ACGIH 2018
OSHA	OSHA PEL (TWA) (mg/m³)	50 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (ppm)	10 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA
IDLH	US IDLH (ppm)	250 ppm
NIOSH	NIOSH REL (TWA) (mg/m³)	50 mg/m³
NIOSH	NIOSH REL (TWA) (ppm)	10 ppm
NIOSH	NIOSH REL (STEL) (mg/m³)	75 mg/m³
NIOSH	NIOSH REL (STEL) (ppm)	15 ppm
Solvent nanhtha ne	etroleum, light aromatic (64742-95-6)	
OSHA	OSHA PEL (TWA) (ppm)	500 ppm
xylene (1330-20-7)		
ACGIH	Local name	Xylene
ACGIH	ACGIH TWA (ppm)	100 ppm
ACGIH	ACGIH STEL (ppm)	150 ppm
ACGIH	Remark (ACGIH)	URT & eye irr; CNS impair
ACGIH	Regulatory reference	ACGIH 2018
OSHA	OSHA PEL (TWA) (mg/m³)	435 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	100 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA
Trimethylbenzenes	(25551-13-7)	
ACGIH	Local name	Trimethyl benzene (mixed isomers)
ACGIH	ACGIH TWA (ppm)	25 ppm
ACGIH	Remark (ACGIH)	CNS impair; asthma; hematologic eff
ACGIH	Regulatory reference	ACGIH 2018
1,2,4-trimethylbenze	ene (95-63-6)	
ACGIH	ACGIH TWA (ppm)	25 ppm
NIOSH	NIOSH REL (TWA) (mg/m³)	125 mg/m³
NIOSH	NIOSH REL (TWA) (ppm)	25 ppm
1,3,5-Trimethylbenz	ene (108-67-8)	
ACGIH	ACGIH TWA (ppm)	25 ppm
NIOSH	NIOSH REL (TWA) (mg/m³)	125 mg/m³
NIOSH	NIOSH REL (TWA) (ppm)	25 ppm
Cumene (98-82-8)		
ACGIH	Local name	Cumene
ACGIH	ACGIH TWA (ppm)	50 ppm

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Cumene (98-82-8)		
ACGIH	Remark (ACGIH)	Eye, skin, & URT irr; CNS impair
ACGIH	Regulatory reference	ACGIH 2018
OSHA	OSHA PEL (TWA) (mg/m³)	245 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	50 ppm
OSHA	Limit value category (OSHA)	prevent or reduce skin absorption
OSHA	Regulatory reference (US-OSHA)	OSHA
IDLH	US IDLH (ppm)	900 ppm (10% LEL)
NIOSH	NIOSH REL (TWA) (mg/m³)	245 mg/m³
NIOSH	NIOSH REL (TWA) (ppm)	50 ppm
NIOSH	US-NIOSH chemical category	Potential for dermal absorption

#### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

## 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Protective gloves

#### Eye protection:

Safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

Wear respiratory protection.

### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Liquid.

Color : Pale yellow to brown if undyed, red or purple if dyed

Odor : mild

Odor threshold : No data available рΗ : No data available Melting point : Not applicable Freezing point : No data available : 140 - 350 °C Boiling point Flash point : > 38 °C closed cup Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : Not applicable. : 4 hPa (at 40 °C) Vapor pressure Relative vapor density at 20 °C : No data available Relative density : 32 - 51 °API

Specific gravity / density : 0.84 g/cm³ (at 15 °C)
Solubility : No data available
Log Pow : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available

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Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosion limits : No data available
Explosive properties : No data available
Oxidizing properties : No data available

#### 9.2. Other information

No additional information available

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Flammable liquid and vapour.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

#### 10.5. Incompatible materials

No additional information available

## 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Acute toxicity : Inhalation:dust,mist: Harmful if inhaled.

riodic toxiony	. Initiation dust, mot. Harman in major.	
Diesel (68476-34-6)		
LD50 oral rat	> 5000 mg/kg	
LD50 dermal rabbit	> 2000 mg/kg	
LC50 inhalation rat (mg/l)	1 - 5 mg/l/4h	
ATE US (vapors)	1 mg/l/4h	
ATE US (dust, mist)	1 mg/l/4h	
Petroleum Distillates (8002-05-9)		
LD50 oral rat	> 5000 mg/kg	
LD50 dermal rabbit	> 2000 mg/kg	
Petroleum distillates, hydrotreated light (6474	2-47-8)	
LD50 oral rat	> 5000 mg/kg	
LD50 dermal rabbit	> 2000 mg/kg	
LC50 inhalation rat (mg/l)	> 5.2 mg/l/4h	
Distillates, petroleum, hydrotreated middle (6-	4742-46-7)	
LD50 oral rat	7400 mg/kg	
LD50 dermal rabbit	> 2000 mg/kg	
LC50 inhalation rat (mg/l)	4.6 mg/l/4h	
ATE US (oral)	7400 mg/kg body weight	
ATE US (vapors)	4.6 mg/l/4h	
ATE US (dust, mist)	4.6 mg/l/4h	
n-hexane (110-54-3)		
LD50 oral rat	25 g/kg	
LD50 dermal rabbit	3000 mg/kg	
LC50 inhalation rat (ppm)	48000 ppm/4h	
ATE US (oral)	25000 mg/kg body weight	
ATE US (dermal)	3000 mg/kg body weight	
ATE US (gases)	48000 ppmV/4h	

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n-Heptane (142-82-5)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	3000 mg/kg
LC50 inhalation rat (mg/l)	103 g/m³ (Exposure time: 4 h)
ATE US (dermal)	3000 mg/kg body weight
ATE US (vapors)	103 mg/l/4h
ATE US (dust, mist)	103 mg/l/4h
	100 119 11 11
Octane (111-65-9) LC50 inhalation rat (mg/l)	> 23.36 mg/l/4h
3· /	· · · ·
of aromatic streams. It consists predominan	erosine - unspecified, [A complex combination of hydrocarbons obtained from distillation tly of aromatic hydrocarbons having carbon numbers predominantly in the range of C9 oximately 165 °C to 290 °C (330 °F to 554 °F).] (64742-94-5)
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 3160 mg/kg
LC50 inhalation rat (mg/l)	> 5.2 mg/l (Exposure time: 4 h)
naphthalene (91-20-3)	
LD50 dermal rat	> 2500 mg/kg (Rat)
LD50 dermal rabbit	> 2000 mg/kg body weight
LC50 inhalation rat (mg/l)	> 0.34 mg/l (Exposure time: 1 h)
ATE US (oral)	533 mg/kg body weight
Solvent naphtha, petroleum, light aromatic (	
LD50 oral rat	8400 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (ppm)	3400 ppm/4h
ATE US (oral) ATE US (gases)	8400 mg/kg body weight  3400 ppmV/4h
	3400 ppinv/4n
xylene (1330-20-7)	1 a
LD50 oral rat	3500 mg/kg
LD50 dermal rabbit	> 4350 mg/kg
LC50 inhalation rat (mg/l)	29.08 mg/l/4h
ATE US (oral)	3500 mg/kg body weight
ATE US (dermal)	1100 mg/kg body weight
ATE US (vapors)	29.08 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h
Trimethylbenzenes (25551-13-7)	
LD50 oral rat	8970 mg/kg
ATE US (oral)	8970 mg/kg body weight
1,2,4-trimethylbenzene (95-63-6)	
LD50 oral rat	3280 mg/kg
LD50 dermal rat	3440 mg/kg (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male/female, Read-across)
LD50 dermal rabbit	> 3160 mg/kg
LC50 inhalation rat (mg/l)	18 g/m³ (Exposure time: 4 h)
ATE US (oral)	3280 mg/kg body weight
ATE US (dermal)	3440 mg/kg body weight
ATE US (gases)	4500 ppmV/4h
ATE US (vapors)	18 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h
1,3,5-Trimethylbenzene (108-67-8)	
LC50 inhalation rat (mg/l)	24 g/m³ (Exposure time: 4 h)
ATE US (vapors)	24 mg/l/4h
ATE US (dust, mist)	24 mg/l/4h
Cumene (98-82-8)	
LD50 oral rat	2910 mg/kg body weight
LD50 dermal rabbit	12300 µl/kg
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Cumene (98-82-8)	
LC50 inhalation rat (mg/l)	40 mg/l (Other, 4 h, Rat, Literature study)
ATE US (oral)	2910 mg/kg body weight
ATE US (vapors)	40 mg/l/4h
ATE US (dust, mist)	40 mg/l/4h
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: May cause genetic defects.
Carcinogenicity	: Suspected of causing cancer.
Petroleum Distillates (8002-05-9)	
IARC group	3 - Not classifiable

naphthalene (91-20-3)	
National Toxicology Program (NTP) Status	Evidence of Carcinogenicity, Reasonably anticipated to be Human Carcinogen
In OSHA Hazard Communication Carcinogen list	Yes

xylene (1330-20-7)	
IARC group	3 - Not classifiable

Cumene (98-82-8)	
IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	Evidence of Carcinogenicity, Reasonably anticipated to be Human Carcinogen
In OSHA Hazard Communication Carcinogen list	Yes

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

Specific target organ toxicity – single exposure : May cause drowsiness or dizziness. May cause respiratory irritation.

Specific target organ toxicity – repeated exposure

: May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : May be fatal if swallowed and enters airways.

Symptoms/effects : May cause drowsiness or dizziness.
Symptoms/effects after inhalation : May cause respiratory irritation.

Symptoms/effects after skin contact : Irritation.

Symptoms/effects after eye contact : Eye irritation.

Symptoms/effects after ingestion : Risk of lung edema.

## **SECTION 12: Ecological information**

## 12.1. Toxicity

Ecology - general : Toxic to aquatic life with long lasting effects. Toxic to aquatic life.

Diesel (68476-34-6)	
LC50 fish 1	35 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	6.4 mg/l 48 hr
Petroleum Distillates (8002-05-9)	
LC50 fish 1	3 mg/l (Exposure time: 96 h - Species: Oncorhynchus Mykiss
EC50 Daphnia 1	< 0.26 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

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Petroleum distillates, hydrotreated lig	ht (64742-47-8)	
LC50 fish 1	45 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])	
LC50 fish 2	2.2 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])	
Distillates, petroleum, hydrotreated m	niddle (64742-46-7)	
LC50 fish 1	35 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])	
LC50 fish 2	> 10000 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])	
n-Heptane (142-82-5)		
LC50 fish 1	375 mg/l (Exposure time: 96 h - Species: Cichlid fish)	
EC50 Daphnia 1	> 10 mg/l 24hr	
LC50 fish 2	0.1 mg/l (Exposure time: 96 h - Species: Mysidopsis Bahia)	
Octane (111-65-9)	or mg. (2. posses and so it opened in my starped 2 and )	
EC50 Daphnia 1	0.38 mg/l (Exposure time: 48 h - Species: water flea)	
<u>'</u>		
of aromatic streams. It consists predo	rom.; Kerosine - unspecified, [A complex combination of hydrocarbons obtained from distillation ominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C9 of approximately 165 °C to 290 °C (330 °F to 554 °F).] (64742-94-5)	
LC50 fish 1	19 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])	
EC50 Daphnia 1	0.95 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
LC50 fish 2	2.34 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)	
naphthalene (91-20-3)		
LC50 fish 1	5.74 - 6.44 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])	
EC50 Daphnia 1	2.16 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
EC50 Daphnia 2	1.96 mg/l (Exposure time: 48 h - Species: Daphnia magna [Flow through])	
Solvent naphtha, petroleum, light aro	matic (64742-95-6)	
LC50 fish 1	9.22 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)	
EC50 Daphnia 1	6.14 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
xylene (1330-20-7)		
LC50 fish 1	13.4 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])	
EC50 Daphnia 1	3.82 mg/l (Exposure time: 48 h - Species: water flea)	
LC50 fish 2	2.661 - 4.093 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])	
EC50 Daphnia 2	0.6 mg/l (Exposure time: 48 h - Species: Gammarus lacustris)	
Trimethylbenzenes (25551-13-7)		
LC50 fish 1	7.72 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])	
1,2,4-trimethylbenzene (95-63-6)		
LC50 fish 1	7.19 - 8.28 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])	
1,3,5-Trimethylbenzene (108-67-8)		
LC50 fish 1	3.48 mg/l (Exposure time: 96 h - Species: Pimephales promelas)	
Cumene (98-82-8)		
LC50 fish 1	6.04 - 6.61 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])	
	0.6 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
EC50 Daphnia 1		
EC50 Daphnia 1 LC50 fish 2	4.8 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])	

## 12.2. Persistence and degradability

n-hexane (110-54-3)	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
ThOD	3.52 g O₂/g substance

naphthalene (91-20-3)		
Persistence and degradability	Not established.	
Biochemical oxygen demand (BOD)	0 g O₂/g substance	
Chemical oxygen demand (COD)	0.22 g O₂/g substance	

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naphthalene (91-20-3)

**Mobility in soil** 

12.4.

ThOD

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2.99 g O₂/g substance

	·		
1,2,4-trimethylbenzene (95-63-6)			
Persistence and degradability	Biodegradable in the soil. Not readily biodegradable in water.		
Chemical oxygen demand (COD)	0.44 g O₂/g substance		
1,3,5-Trimethylbenzene (108-67-8)			
Persistence and degradability  May cause long-term adverse effects in the environment.			
Cumene (98-82-8)			
Persistence and degradability	Biodegradable in the soil. Inherently biodegradable. Not readily biodegradable in water.		
Biochemical oxygen demand (BOD)	1.28 g O₂/g substance		
Chemical oxygen demand (COD)	2.42 g O₂/g substance		
ThOD	3.2 g O₂/g substance		
BOD (% of ThOD)	0.4		
12.3. Bioaccumulative potential			
Petroleum distillates, hydrotreated light	(64742-47-8)		
BCF fish 1	61 - 159		
	<u> </u>		
<b>n-hexane (110-54-3)</b> BCF fish 1	501 197 (Other Dimenhales promotes OSAD)		
	501.187 (Other, Pimephales promelas, QSAR)		
Log Pow	4 (Experimental value, Equivalent or similar to OECD 107, 20 °C)		
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).		
n-Heptane (142-82-5)	4.00		
Log Pow	4.66		
Octane (111-65-9)			
Log Pow	5.18		
of aromatic streams. It consists predomi	n.; Kerosine - unspecified, [A complex combination of hydrocarbons obtained from distillation inantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C9 approximately 165 °C to 290 °C (330 °F to 554 °F).] (64742-94-5)		
BCF fish 1	61 - 159		
Log Pow	2.9 - 6.1		
naphthalene (91-20-3)			
BCF fish 1	30 - 430		
Log Pow	3.6		
Bioaccumulative potential	Not established.		
xylene (1330-20-7)			
BCF fish 1	0.6 - 15		
Log Pow	2.77 - 3.15		
1,2,4-trimethylbenzene (95-63-6)			
BCF fish 1	31 - 275 (Other, 8 week(s), Cyprinus carpio, Weight of evidence)		
Log Pow	3.63		
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).		
1,3,5-Trimethylbenzene (108-67-8)			
Bioaccumulative potential	Not established.		
Cumene (98-82-8)			
BCF fish 1	35.5		
BCF other aquatic organisms 1	94.69 (BCFBAF v3.00, Calculated value)		
Log Pow	3.7		
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).		
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n-hexane (110-54-3)		
Surface tension	0.018 N/m (25 °C, 1 g/l)	
Log Koc	3.34 (log Koc, QSAR)	
Ecology - soil	Low potential for mobility in soil.	

naphthalene (91-20-3)	
Surface tension	0.03 N/m (100 °C)
Ecology - soil	Adsorbs into the soil.

1,2,4-trimethylbenzene (95-63-	6)	
Surface tension	0.029 N/m	
Log Koc	3.04 (log Koc, Calculated value)	
Ecology - soil	Low potential for mobility in soil. May be harmful to plant growth, blooming and fruit formation	
Cumene (98-82-8)		
Log Koc	2.946 (log Koc. Calculated value)	

Low potential for adsorption in soil.

#### 12.5. Other adverse effects

Ecology - soil

n-hexane (110-54-3)	
1990 Hazardous Air Pollutant (Clean Air Act)	Yes
naphthalene (91-20-3)	
1990 Hazardous Air Pollutant (Clean Air Act)	Yes
xylene (1330-20-7)	
1990 Hazardous Air Pollutant (Clean Air Act)	Yes
Cumene (98-82-8)	
1990 Hazardous Air Pollutant (Clean Air Act)	Yes

## **SECTION 13: Disposal considerations**

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Additional information : Flammable vapors may accumulate in the container.

#### **SECTION 14: Transport information**

## **Department of Transportation (DOT)**

In accordance with DOT

Transport document description : NA1993 Combustible liquid, n.o.s. (Diesel Fuel), 3, III

UN-No.(DOT) : NA1993

Proper Shipping Name (DOT) : Combustible liquid, n.o.s.

Diesel Fuel

Class (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Packing group (DOT) : III - Minor Danger

Dangerous for the environment : Yes
Marine pollutant : Yes



DOT Packaging Non Bulk (49 CFR 173.xxx) : 203 DOT Packaging Bulk (49 CFR 173.xxx) : 241

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DOT Symbols : D - Proper shipping name for domestic use only, or to and from Canada,G - Identifies PSN

requiring a technical name

DOT Special Provisions (49 CFR 172.102)

: IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table

2 for UN2672). T1 - 1.5.178.274(d)(2) Normal

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

DOT Packaging Exceptions (49 CFR 173.xxx) : 150 DOT Quantity Limitations Passenger aircraft/rail : 60 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 220 L

CFR 175.75)

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel.

Emergency Response Guide (ERG) Number :

Other information

: Transportation Notes: Material is not regulated by the U.S. DOT for ground transportation within

the U.S. if shipped in non-bulk packaging (<119 gallons).

#### Transport by sea

Transport document description (IMDG) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diesel Fuel), 9,

Ш

UN-No. (IMDG) : 3082

Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Class (IMDG) : 9 - Miscellaneous dangerous substances and articles

Packing group (IMDG) : III - substances presenting low danger

Marine pollutant : Yes



### Air transport

Transport document description (IATA) : UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Diesel Fuel), 9, III

UN-No. (IATA) : 3082

Proper Shipping Name (IATA) : Environmentally hazardous substance, liquid, n.o.s.

Class (IATA) : 9 - Miscellaneous Dangerous Goods

Packing group (IATA) : III - Minor Danger

#### **SECTION 15: Regulatory information**

## 15.1. US Federal regulations

#### Diesel (68476-34-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

## Petroleum Distillates (8002-05-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

## Petroleum distillates, hydrotreated light (64742-47-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Distillates, petroleum, hydrotreated middle (64742-46-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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#### n-hexane (110-54-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313

CERCLA RQ 5000 lb

#### n-Heptane (142-82-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Octane (111-65-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

**Solvent naphtha (petroleum), heavy arom.; Kerosine** - unspecified, [A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 165 °C to 290 °C (330 °F to 554 °F).] **(64742-94-5)** 

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### naphthalene (91-20-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313

CERCLA RQ 100 lb

#### Solvent naphtha, petroleum, light aromatic (64742-95-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### xylene (1330-20-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313

CERCLA RQ 100 lb

#### Trimethylbenzenes (25551-13-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 1,2,4-trimethylbenzene (95-63-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313

#### 1,3,5-Trimethylbenzene (108-67-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Cumene (98-82-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313

CERCLA RQ 5000 lb

#### 15.2. International regulations

## **CANADA**

#### Diesel (68476-34-6)

Listed on the Canadian DSL (Domestic Substances List)

## Petroleum Distillates (8002-05-9)

Listed on the Canadian DSL (Domestic Substances List)

## Petroleum distillates, hydrotreated light (64742-47-8)

Listed on the Canadian DSL (Domestic Substances List)

## Distillates, petroleum, hydrotreated middle (64742-46-7)

Listed on the Canadian DSL (Domestic Substances List)

#### n-hexane (110-54-3)

Listed on the Canadian DSL (Domestic Substances List)

### n-Heptane (142-82-5)

Listed on the Canadian DSL (Domestic Substances List)

#### Octane (111-65-9)

Listed on the Canadian DSL (Domestic Substances List)

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**Solvent naphtha (petroleum), heavy arom.; Kerosine** - unspecified, [A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 165 °C to 290 °C (330 °F to 554 °F).] **(64742-94-5)** 

Listed on the Canadian DSL (Domestic Substances List)

#### naphthalene (91-20-3)

Listed on the Canadian DSL (Domestic Substances List)

Toxic Substance (CEPA - Schedule I)

Yes

#### Solvent naphtha, petroleum, light aromatic (64742-95-6)

Listed on the Canadian DSL (Domestic Substances List)

#### xylene (1330-20-7)

Listed on the Canadian DSL (Domestic Substances List)

#### Trimethylbenzenes (25551-13-7)

Listed on the Canadian DSL (Domestic Substances List)

#### 1,2,4-trimethylbenzene (95-63-6)

Listed on the Canadian DSL (Domestic Substances List)

#### 1,3,5-Trimethylbenzene (108-67-8)

Listed on the Canadian DSL (Domestic Substances List)

#### Cumene (98-82-8)

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

#### Diesel (68476-34-6)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### Petroleum Distillates (8002-05-9)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### Petroleum distillates, hydrotreated light (64742-47-8)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### Distillates, petroleum, hydrotreated middle (64742-46-7)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### n-hexane (110-54-3)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### n-Heptane (142-82-5)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

### Octane (111-65-9)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

**Solvent naphtha (petroleum), heavy arom.; Kerosine** - unspecified, [A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 165 °C to 290 °C (330 °F to 554 °F).] **(64742-94-5)** 

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

## naphthalene (91-20-3)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

### Solvent naphtha, petroleum, light aromatic (64742-95-6)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### xylene (1330-20-7)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

### Trimethylbenzenes (25551-13-7)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### 1,2,4-trimethylbenzene (95-63-6)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### 1,3,5-Trimethylbenzene (108-67-8)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

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#### Cumene (98-82-8)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### National regulations

#### Diesel (68476-34-6)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on CICR (Turkish Inventory and Control of Chemicals)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

#### Petroleum Distillates (8002-05-9)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

#### Petroleum distillates, hydrotreated light (64742-47-8)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on CICR (Turkish Inventory and Control of Chemicals)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

#### Distillates, petroleum, hydrotreated middle (64742-46-7)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on CICR (Turkish Inventory and Control of Chemicals)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

#### n-hexane (110-54-3)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on CICR (Turkish Inventory and Control of Chemicals)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

#### n-Heptane (142-82-5)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on CICR (Turkish Inventory and Control of Chemicals)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

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#### Octane (111-65-9)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on CICR (Turkish Inventory and Control of Chemicals)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

**Solvent naphtha (petroleum), heavy arom.; Kerosine** - unspecified, [A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 165 °C to 290 °C (330 °F to 554 °F).] **(64742-94-5)** 

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on CICR (Turkish Inventory and Control of Chemicals)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

#### naphthalene (91-20-3)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on CICR (Turkish Inventory and Control of Chemicals)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

#### Solvent naphtha, petroleum, light aromatic (64742-95-6)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on CICR (Turkish Inventory and Control of Chemicals)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

## xylene (1330-20-7)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Japanese Poisonous and Deleterious Substances Control Law

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on CICR (Turkish Inventory and Control of Chemicals)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### Trimethylbenzenes (25551-13-7)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on CICR (Turkish Inventory and Control of Chemicals)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

#### 1,2,4-trimethylbenzene (95-63-6)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on CICR (Turkish Inventory and Control of Chemicals)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

#### 1,3,5-Trimethylbenzene (108-67-8)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on CICR (Turkish Inventory and Control of Chemicals)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

## Cumene (98-82-8)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on CICR (Turkish Inventory and Control of Chemicals)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

#### 15.3. US State regulations



This product can expose you to naphthalene, which is known to the State of California to cause cancer, and n-hexane, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

n-hexane (110-54-3)					
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
No	No	No	Yes		

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naphthalene (91-20-3)					
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No	5.8 μg/day	

Cumene (98-82-8)					
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No		

#### Petroleum Distillates (8002-05-9)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

#### n-hexane (110-54-3)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

#### n-Heptane (142-82-5)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

## Octane (111-65-9)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

## naphthalene (91-20-3)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) List

## xylene (1330-20-7)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) List

#### Trimethylbenzenes (25551-13-7)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

#### 1,2,4-trimethylbenzene (95-63-6)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) List

## 1,3,5-Trimethylbenzene (108-67-8)

U.S. - Massachusetts - Right To Know List

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#### Cumene (98-82-8)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) List

## **SECTION 16: Other information**

Revision date : 06/19/2018

#### Full text of H-phrases:

H226	Flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H340	May cause genetic defects
H351	Suspected of causing cancer
H361	Suspected of damaging fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated exposure
H401	Toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects

NFPA health hazard

: 1 - Materials that, under emergency conditions, can cause significant irritation.

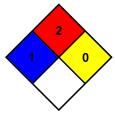
NFPA fire hazard

: 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can

occur.

NFPA reactivity

: 0 - Material that in themselves are normally stable, even under fire conditions.



## SDS US (GHS HazCom 2012)

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