

SECTION 1: Identification

Diesel Secondary Reference Fuel U

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

1.1. Identification			
Product form		: Substance	
Trade name		: Diesel Secondary Reference Fuel U	
Chemical name		: Diesel	
CAS-No.		68476-34-6	
Product code		: HF3008	
Formula		: Unspecified	
Synonyms		: Diesel oil, No. 2 / Diesel No. 2 / Diesel fuel No. 2 / Diesel fuel oil no. 2-D / Fuel oil, no. 2-D /	
Cynolyno		Fuels, diesel, No. 2 / Diesel fuel no. 2 / Diesel fuel 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	
1.2. Recommended us	se and restrictions of	on use	
Use of the substance/mixture	9	: 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 281-4ξ	57-1469		
<u>qdunford@jhaltermann.com</u>			
1.4. Emergency teleph	none number		
Emergency number		: 24 HR CHEMTREC: 1-800-424-9300; Emergency Assistance: 1-800-969-2542 (8 AM to 5 PM CDT)	
SECTION 2: Hazard(s) identification		
	the substance or mi	vture	
GHS-US classification			
Flammable liquids	H226	Flammable liquid and vapour	
Category 3 Acute toxicity	H332	Harmful if inhaled	
(inhalation:dust,mist)	11002		
Category 4			
Skin corrosion/irritation	H315	Causes skin irritation	
Category 2 Serious eye damage/eye	H319	Causes serious eye irritation	
irritation Category 2	11313	Causes senous eye initation	
Germ cell mutagenicity	H340	May cause genetic defects	
Category 1B	11054		
Carcinogenicity Category 2 Reproductive toxicity	H351 H361	Suspected of causing cancer Suspected of damaging fertility or the unborn child	
Category 2	11501	Suspected of damaging remitly of the diborn child	
Specific target organ	H336	May cause drowsiness or dizziness	
toxicity (single exposure)			
Category 3 Specific target organ	H335	Mou coupo reconiratory irritation	
toxicity (single exposure)	H333	May cause respiratory irritation	
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	
1	. 100 1		
Hazardous to the aquatic	H401	Toxic to aquatic life	
environment - Acute Hazard Category 2			
Hazardous to the aquatic environment - Chronic Hazard Category 2	H411	Toxic to aquatic life with long lasting effects	
Full text of H statements : se	e section 16		

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2.2. GHS Label elements, including precautionary statements

GHS-US labeling

Hazard pictograms (GHS-US)



Signal word (GHS-US) Hazard statements (GHS-US)

Precautionary statements (GHS-US)

- : Danger
- : 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
- : 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

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

3.1. Substances

Chemical name

: Diesel EN (English US)

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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
obtained from distillation of aromatic streams. It	consists	nspecified, [A complex combination of hydrocarbons predominantly of aromatic hydrocarbons having carbon and boiling in the range of approximately 165 °C to 290	(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-statemen	s : see	section 16		
3.2. Mixtures				
Not applicable				
SECTION 4: First-aid measures				
4.1. Description of first aid measure	es			
First-aid measures general		Call a physician immediately.		
First-aid measures after inhalation	:	Remove person to fresh air and keep comfortal center/doctor/physician if you feel unwell.	ble for breathing. Call a poison	I
First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off imme irritation occurs: Get medical advice/attention.		f immediately all contaminated	l clothing. If skin	
First-aid measures after eye contact : Rinse cautiously with water for several minutes. do. Continue rinsing. If eye irritation persists: Ge			esent and easy	
First-aid measures after ingestion	:	Do not induce vomiting. Call a physician immed	liately.	
I.2. Most important symptoms and	effects	(acute and delayed)		
Symptoms/effects	:	May cause drowsiness or dizziness.		
Symptoms/effects after inhalation : May cause respiratory irritation.		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.

SECT	SECTION 5: Fire-fighting measures		
5.1.	Suitable (and unsuitable) extin	guishing media	
Suitable extinguishing media		: Water spray. Dry powder. Foam. Carbon dioxide.	
5.2.	Specific hazards arising from t	the chemical	
Fire hazard : Flammable liquid and va		: Flammable liquid and vapour.	
Reactivity		: Flammable liquid and vapour.	
5.3.	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 meas	sures	
6.1. 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".	
6.2. Environmental precautions		
Avoid release to the environment. Notify authorit	ies if product enters sewers or public waters.	
6.3. Methods and material for containme	ent 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		
7.1. 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.	

Hygiene measures :	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.

7.2. Conditions for safe storage, including any incompatibilities		safe storage, including any incompatibilities
Technic	al 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/m ³ (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/m ³)	1800 mg/m³		
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/m ³)	1800 mg/m ³
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/m ³)	180 mg/m ³
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/m ³)	2000 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	500 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA
IDLH	US IDLH (ppm)	750 ppm
NIOSH	NIOSH REL (TWA) (mg/m ³)	350 mg/m ³
NIOSH	NIOSH REL (TWA) (ppm)	85 ppm
NIOSH	NIOSH REL (ceiling) (mg/m ³)	1800 mg/m ³
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/m ³)	2350 mg/m ³
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/m ³)	350 mg/m ³
NIOSH	NIOSH REL (TWA) (ppm)	75 ppm
NIOSH	NIOSH REL (ceiling) (mg/m ³)	1800 mg/m ³
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/m ³)	50 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	10 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA
IDLH	US IDLH (ppm)	250 ppm
NIOSH	NIOSH REL (TWA) (mg/m ³)	50 mg/m³
NIOSH	NIOSH REL (TWA) (ppm)	10 ppm
NIOSH	NIOSH REL (STEL) (mg/m ³)	75 mg/m³
NIOSH	NIOSH REL (STEL) (ppm)	15 ppm
Solvent nanhtha, na	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/m ³)	435 mg/m ³
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-trimethylbenz	ene (95-63-6)	
ACGIH	ACGIH TWA (ppm)	25 ppm
NIOSH	NIOSH REL (TWA) (mg/m ³)	125 mg/m ³
NIOSH	NIOSH REL (TWA) (ppm)	25 ppm
1,3,5-Trimethylbenz		
ACGIH	ACGIH TWA (ppm)	25 ppm
NIOSH	NIOSH REL (TWA) (mg/m ³)	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/m ³
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/m ³)	245 mg/m ³
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	
рН	: No data available	
Melting point	: Not applicable	
Freezing point	: No data available	
Boiling point	: 140 - 350 °C	
Flash point	: > 38 °C closed cup	
Relative evaporation rate (butyl acetate=1)	: No data available	
Flammability (solid, gas)	: Not applicable.	
Vapor pressure	: 4 hPa (at 40 °C)	
Relative vapor density at 20 °C	: No data available	
Relative density	: 32 - 51 °API	
Specific gravity / density	: 0.84 g/cm ³ (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 co	onditions of use.	
10.4. Conditions to avoid		
Avoid contact with hot surfaces. Heat. No flame	s, no sparks. Eliminate all sources of ignition.	
10.5. Incompatible materials		
No additional information available		
10.6. Hazardous decomposition product	S	
	zardous decomposition products should not be produced.	
-		
SECTION 11: Toxicological informa		
11.1. Information on toxicological effects		
Acute toxicity	: Inhalation:dust,mist: Harmful if inhaled.	
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 (64		
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		
LD50 oral rat	7400 mg/kg	
LD50 dermal rabbit	> 2000 mg/kg	
LC50 inhalation rat (mg/l)	4.6 mg/l/4h	
ATE US (vapara)	7400 mg/kg body weight	
ATE US (vapors) ATE US (dust, mist)	4.6 mg/l/4h 4.6 mg/l/4h	
	4.0 mg//#i	
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
Octane (111-65-9)	·
LC50 inhalation rat (mg/l)	> 23.36 mg/l/4h
Solvent naphtha (petroleum), heavy aro of aromatic streams. It consists predom	pm.; Kerosine - unspecified, [A complex combination of hydrocarbons obtained from distillation ninantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C9 f approximately 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 aroma	
LD50 oral rat	8400 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (ppm)	3400 ppm/4h
ATE US (oral)	8400 mg/kg body weight
ATE US (gases)	3400 ppmV/4h
xylene (1330-20-7)	
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	8070 malka
ATE US (oral)	8970 mg/kg
· · ·	8970 mg/kg body weight
1,2,4-trimethylbenzene (95-63-6)	1
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)	4300 pp////4/
	18 mg/l/4h
ATE US (dust, mist)	
	18 mg/l/4h
1,3,5-Trimethylbenzene (108-67-8)	18 mg/l/4h 1.5 mg/l/4h
1,3,5-Trimethylbenzene (108-67-8) LC50 inhalation rat (mg/l)	18 mg/l/4h 1.5 mg/l/4h 24 g/m³ (Exposure time: 4 h)
1,3,5-Trimethylbenzene (108-67-8) LC50 inhalation rat (mg/l) ATE US (vapors)	18 mg/l/4h 1.5 mg/l/4h 24 g/m³ (Exposure time: 4 h) 24 mg/l/4h
1,3,5-Trimethylbenzene (108-67-8) LC50 inhalation rat (mg/l) ATE US (vapors) ATE US (dust, mist)	18 mg/l/4h 1.5 mg/l/4h 24 g/m³ (Exposure time: 4 h)
1,3,5-Trimethylbenzene (108-67-8)LC50 inhalation rat (mg/l)ATE US (vapors)ATE US (dust, mist)Cumene (98-82-8)	18 mg/l/4h 1.5 mg/l/4h 24 g/m³ (Exposure time: 4 h) 24 mg/l/4h 24 mg/l/4h
1,3,5-Trimethylbenzene (108-67-8) LC50 inhalation rat (mg/l) ATE US (vapors) ATE US (dust, mist)	18 mg/l/4h 1.5 mg/l/4h 24 g/m³ (Exposure time: 4 h) 24 mg/l/4h

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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
xulana (1220-20-7)	

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

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.

: Risk of lung edema.

SECTION 12: Ecological inf	ormation
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])

Symptoms/effects after ingestion

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	-
Petroleum distillates, hydrotreated light (64	742-47-8)
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 middle	(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 Hentone (112 82 5)	
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)
	0.1 mg/r (Exposure time: 90 m - Species: Mysidopsis Bania)
Octane (111-65-9)	
EC50 Daphnia 1	0.38 mg/l (Exposure time: 48 h - Species: water flea)
of aromatic streams. It consists predominal	Kerosine - unspecified, [A complex combination of hydrocarbons obtained from distillation ntly of aromatic hydrocarbons having carbon numbers predominantly in the range of C9 proximately 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 aromatic	(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])
EC50 Daphnia 1	0.6 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	4.8 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
EC50 Daphnia 2	7.9 - 14.1 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

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)	
ThOD	2.99 g O₂/g substance
1.2.4-trimothylbonzono (05-63-6)	

1,2,4-trimetnyibenzene (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)	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	
n-hexane (110-54-3)		
BCF fish 1	501.187 (Other, Pimephales promelas, QSAR)	
Log Pow	4 (Experimental value, Equivalent or similar to OECD 107, 20 °C)	
Bioaccumulative potential	Potential for bioaccumulation ($500 \le BCF \le 5000$).	
n-Heptane (142-82-5)		
Log Pow	4.66	
Octane (111-65-9)		
Log Pow	5.18	
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)		
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).	
12.4. Mobility in soil		

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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)
Ecology - soil	Low potential for adsorption in soil.

12.5. Other adverse effects

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	

SECT	ION 13: Disposal co	nsiderations
13.1.	Disposal methods	
Waste	treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.

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

: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Additional information

: Flammable vapors may accumulate in the container.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description UN-No.(DOT) Proper Shipping Name (DOT)

Class (DOT) Packing group (DOT) Dangerous for the environment Marine pollutant

DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) : NA1993

: Yes

: Yes

: 203

: 241

Diesel Fuel

: III - Minor Danger

: Combustible liquid, n.o.s.

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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 178.275(d)(2) T4 - 2.65 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	:	150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	:	60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	220 L
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	:	128
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, III
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-No. (IATA) Proper Shipping Name (IATA) Class (IATA)	:	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Diesel Fuel), 9, III 3082 Environmentally hazardous substance, liquid, n.o.s. 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 Substar Subject to reporting requirements of United State		
CERCLA RQ 5000 lb		
n-Heptane (142-82-5)		
Listed on the United States TSCA (Toxic Substan	nces Control Act) inventory	
Octane (111-65-9)		
Listed on the United States TSCA (Toxic Substan	nces Control Act) inventory	
	Prosine - unspecified, [A complex combination of hydrocarbons obtained from distillation of comatic hydrocarbons having carbon numbers predominantly in the range of C9 through C16 to 290 °C (330 °F to 554 °F).] (64742-94-5)	
Listed on the United States TSCA (Toxic Substar	nces Control Act) inventory	
naphthalene (91-20-3)		
Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United State		
CERCLA RQ	100 lb	
Solvent naphtha, petroleum, light aromatic (64	4742-95-6)	
Listed on the United States TSCA (Toxic Substan	nces Control Act) inventory	
xylene (1330-20-7)		
Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United State		
CERCLA RQ	100 lb	
Trimethylbenzenes (25551-13-7)		
Listed on the United States TSCA (Toxic Substar	nces 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 Substan	nces Control Act) inventory	
Cumene (98-82-8)		
Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United State		
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 Substance	es usu	

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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Octan	e (111-65-9)
Listed Listed Listed Listed Listed Listed Listed Listed Solver aroma	on the AICS (Australian Inventory of Chemical Substances) on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) on the Japanese ENCS (Existing & New Chemical Substances) inventory on the Japanese ISHL (Industrial Safety and Health Law) on the Korean ECL (Existing Chemicals List) on NZIOC (New Zealand Inventory of Chemicals) on PICCS (Philippines Inventory of Chemicals and Chemical Substances) on INCQ (Mexican National Inventory of Chemical Substances) on CICR (Turkish Inventory and Control of Chemicals) on the TCSI (Taiwan Chemical Substance Inventory) nt naphtha (petroleum), heavy arom.; Kerosine - unspecified, [A complex combination of hydrocarbons obtained from distillation of tic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C9 through C16 pilling in the range of approximately 165 °C to 290 °C (330 °F to 554 °F).] (64742-94-5)
Listed Listed Listed Listed Listed Listed Listed	on the AICS (Australian Inventory of Chemical Substances) on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) on the Korean ECL (Existing Chemicals List) on NZIOC (New Zealand Inventory of Chemicals) on PICCS (Philippines Inventory of Chemicals and Chemical Substances) on INSQ (Mexican National Inventory of Chemical Substances) on CICR (Turkish Inventory and Control of Chemicals) on the TCSI (Taiwan Chemical Substance Inventory)
naphtl	halene (91-20-3)
Listed Listed Listed Listed Listed Japane Listed Listed	on the AICS (Australian Inventory of Chemical Substances) on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) on the Japanese ENCS (Existing & New Chemical Substances) inventory on the Japanese ISHL (Industrial Safety and Health Law) on the Korean ECL (Existing Chemicals List) on NZIoC (New Zealand Inventory of Chemicals) on PICCS (Philippines Inventory of Chemicals and Chemical Substances) ese Pollutant Release and Transfer Register Law (PRTR Law) on INSQ (Mexican National Inventory of Chemical Substances) on CICR (Turkish Inventory and Control of Chemicals) on the TCSI (Taiwan Chemical Substance Inventory)
Solver	nt naphtha, petroleum, light aromatic (64742-95-6)
Listed Listed Listed Listed Listed Listed	on the AICS (Australian Inventory of Chemical Substances) on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) on the Korean ECL (Existing Chemicals List) on NZIoC (New Zealand Inventory of Chemicals) on PICCS (Philippines Inventory of Chemicals and Chemical Substances) on INSQ (Mexican National Inventory of Chemical Substances) on CICR (Turkish Inventory and Control of Chemicals) on the TCSI (Taiwan Chemical Substance Inventory)
xylene	e (1330-20-7)
Listed Listed Listed Listed Listed Japane Japane Listed Listed	on the AICS (Australian Inventory of Chemical Substances) on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) on the Japanese ENCS (Existing & New Chemical Substances) inventory on the Japanese ISHL (Industrial Safety and Health Law) on the Korean ECL (Existing Chemicals List) on NZIOC (New Zealand Inventory of Chemicals) on PICCS (Philippines Inventory of Chemicals and Chemical Substances) ese Poisonous and Deleterious Substances Control Law ese Pollutant Release and Transfer Register Law (PRTR Law) on INSQ (Mexican National Inventory of Chemical Substances) on CICR (Turkish Inventory and Control of Chemicals) on the TCSI (Taiwan Chemical Substance Inventory)

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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 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 Chemicals) 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	aphthalene (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 Distil	lates (8002-05-9)				
U.S New Jerse	etts - Right To Know y - Right to Know Haz nia - RTK (Right to Kr	ardous Substance List			
n-hexane (110-54	4-3)				
U.S New Jerse	setts - Right To Know y - Right to Know Haz hia - RTK (Right to Kr	ardous Substance List			
n-Heptane (142-	82-5)				
U.S New Jerse	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	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-trimethylbe	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
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: 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			
NFF	PA health hazard	: 1 - Materials that, under emergency conditions, can cause significant irritation.			
NFF	PA fire hazard	: 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.			
NFF	PA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.			

SDS US (GHS HazCom 2012)

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