

SECTION 1: Identification

Identification

Product form : Substance

Trade name : DFA24 & DFB24 (TMC Reference Fluid DFLUB)

Chemical name CAS-No. : 68476-34-6 Product code : DFA24 & DFB24

Recommended use and restrictions on use

Use of the substance/mixture : Research fuel for bench testing

Supplier

Distributed by: Test Monitoring Center 203 Armstrong Dr.

Freeport, PA 16229

USA

Emergency telephone number

Email address for further information: GHS-sds@astmtmc.org
USA emergency telephone number: 1-800-424-9300 Ext. 3905, International emergency telephone number: +1 202-366-4488

SECTION 2: Hazard(s) identification

Classification of the substance or mixture

GHS-US classification

Flammable liquids Category 3	H226	Flammable liquid and vapor
Skin corrosion/irritation Category 2	H315	Causes skin irritation
Serious eye damage/eye irritation Category 2	H319	Causes serious eye irritation
Germ cell mutagenicity Category 1B	H340	May cause genetic defects
Carcinogenicity Category 2	H351	Suspected of causing cancer
Reproductive toxicity Category 2	H361	Suspected of damaging fertility or the unborn child
Specific target organ toxicity (single	H336	May cause drowsiness or dizziness
exposure) Category 3 Specific target organ toxicity (single		May cause respiratory irritation
exposure) Category 3	H335	may sauss respiratory inflation
Specific target organ toxicity (repeated		May cause damage to organs through prolonged or repeated
exposure) Category 2	H373	exposure
Aspiration hazard Category 1	H304	May be fatal if swallowed and enters airways
Hazardous to the aquatic environment-	H401	Toxic to aquatic life
Acute Hazard Category 2		
Hazardous to the aquatic nvironment -	H411	Toxic to aquatic life with long lasting effects

Full text of H statements : see section 16

Chronic Hazard Category 2

11/15/2023 EN (English US) 1/21



GHS Label elements, including precautionary statements

GHS-US labeling

Hazard pictograms (GHS-US)









Signal word (GHS-US)

Hazard statements (GHS-US)

: Danger

: H226 - Flammable liquid and vapor

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H319 - Causes serious eye irritation 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

Precautionary statements (GHS-US)

: 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

11/15/2023 EN (English US) 2/21



2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Chemical name : Diesel 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 vapor.
Reactivity : Flammable liquid and vapor.

11/15/2023 EN (English US) 3/21



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.

SECTION 6: Accidental release measures

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 authorities if product enters sewers or public waters.

6.3. 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

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

Technical 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 (8002-05-9)		
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

11/15/2023 EN (English US) 4/21



OSHA	s, hydrotreated light (64742-47-8) OSHA PEL (TWA) (ppm)	500 ppm
	, , , , , ,	эоо ррпі
OSHA	m, hydrotreated middle (64742-46-7) OSHA PEL (TWA) (ppm)	500 ppm
	` ' ' ' '	300 ррпі
n-hexane (110-54-3) ACGIH	Local name	n-Hexane
ACGIH	ACGIH TWA (ppm)	
ACGIH	Remark (ACGIH)	50 ppm CNS impair; peripheral neuropathy; eye irr; Skin; BEI
ACGIH	Regulatory reference	ACGIH 2018
	ů ,	
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	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) (mg/m²)	75 ppm
NIOSH	NIOSH REL (ceiling) (mg/m³)	1800 mg/m ³
	(0, (0 ,	, and the second
NIOSH	NIOSH REL (ceiling) (ppm)	385 ppm
of aromatic streams		mplex combination of hydrocarbons obtained from distillatior s having carbon numbers predominantly in the range of C9 330 °F to 554 °F).1 (64742-94-5)
OSHA	OSHA PEL (TWA) (ppm)	500 ppm

11/15/2023 EN (English US) 5/21



Solvent naphtha, petroleum	, 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 (25551-1	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-trimethylbenzene (95-6	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-Trimethylbenzene (108	3-67-8)	
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
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
naphthalene (91-20-3)		
Hapithalette (31-20-3)		
ACGIH	Local name	Naphthalene

11/15/2023 EN (English US) 6/21



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/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/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

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 pH : No data available Melting point : Not applicable Freezing point : No data available Boiling point : 140 - 350 °C Flash point : > 60 °C closed cup Relative evaporation rate (butyl acetate=1) : No data available

Flammability (solid, gas) : Not applicable.

Vapor pressure : No data available

11/15/2023 EN (English US) 7/21



: No data available Relative vapor density at 20 °C : 32 - 51 °API Relative density Solubility No data available Log Pow : No data available No data available Auto-ignition temperature Decomposition temperature No data available Viscosity, kinematic No data available Viscosity, dynamic No data available No data available **Explosion limits** No data available Explosive properties Oxidizing properties No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable liquid and vapor.

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: Not classified.

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 (64742-47-8)	
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

11/15/2023 EN (English US) 8/21



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

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

LD50 oral rat

ATE US (oral)
ATE US (dermal)

ATE US (gases)

ATE US (vapors)

ATE US (vapors)

ATE US (dust, mist)

ATE US (dust, mist)

LC50 inhalation rat (mg/l)

LD50 dermal rat

LD50 dermal rabbit

LC50 inhalation rat (mg/l)

Safety Data Sheet

A Program of ASTM International	
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
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
through C16 and boiling in the range LD50 oral rat	e of approximately 165 °C to 290 °C (330 °F to 554 °F).] (64742-94-5) > 5000 mg/kg
LD50 dermal rabbit	> 3160 mg/kg
LC50 inhalation rat (mg/l)	> 5.2 mg/l (Exposure time: 4 h)
Solvent naphtha, petroleum, light ar	compatic (64742-95-6)
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)	στου ρριπν/τιπ
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
7.1.2 30 (orai)	oo. o mg/kg body woight

11/15/2023	EN (English US)	9/21

3440 mg/kg (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male/female, Read-across)

3280 mg/kg

> 3160 mg/kg

4500 ppmV/4h

18 mg/l/4h

1.5 mg/l/4h

24 mg/l/4h

24 mg/l/4h

18 g/m³ (Exposure time: 4 h)

24 g/m³ (Exposure time: 4 h)

3280 mg/kg body weight

3440 mg/kg body weight



Cumene (98-82-8)	
LD50 oral rat	2910 mg/kg body weight
LD50 dermal rabbit	12300 µl/kg
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
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
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

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				
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				

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.

11/15/2023 EN (English US) 10/21



.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general

: Toxic to aquatic life with long lasting effects. Toxic to aquatic life.

11/15/2023 EN (English US) 11/21



Diesel (68476-34-6)						
LC50 fish 1						
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])					
250 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 (64						
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 prometas [now-through])					
	> 10000 mg/r (Exposure time, 50 m. Openies, 1 imophiales promotas (statio))					
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)						
EC50 Daphnia 1	0.38 mg/l (Exposure time: 48 h - Species: water flea)					
of aromatic streams. It consists predominantly	erosine - unspecified, [A complex combination of hydrocarbons obtained from distillation y of aromatic hydrocarbons having carbon numbers predominantly in the range of C9 eximately 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)					
Solvent naphtha, petroleum, light aromatic (6-	4742-95-6)					
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)	2 (1					
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)	7 To Contain the Contain the Contain C					
	3 48 mg/l (Evnosure time: 06 h - Species: Dimenhales prometes)					
Cumene (98-82-8)	LC50 fish 1 3.48 mg/l (Exposure time: 96 h - Species: Pimephales promelas)					
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: 96 ft - Species: Pilitepriales profiletas [flow-tiflough])					
LC50 fish 2	4.8 mg/l (Exposure time: 48 n - Species: Daphnia magna) 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])					
naphthalene (91-20-3) LC50 fish 1	5.74 - 6.44 mg/l (Evnocure time: 96.h - Species: Dimonhales promotes (flow through)					
EC50 Daphnia 1	5.74 - 6.44 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])					
EC50 Daphilia 1	2.16 mg/l (Exposure time: 48 h - Species: Daphnia magna)					
LOGO Dapililla Z	1.96 mg/l (Exposure time: 48 h - Species: Daphnia magna [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 O:dg substance			

11/15/2023 EN (English US) 12/21



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 0:dg 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 0:dg substance			
Chemical oxygen demand (COD)	2.42 g 0:dg substance			
ThOD	3.2 g 0:dg substance			
BOD (% of ThOD)	0.4			
naphthalene (91-20-3)	·			
Persistence and degradability	Not established.			
Biochemical oxygen demand (BOD)	0 g 0:dg substance			
Chemical oxygen demand (COD)	0.22 g 0:dg substance			
ThOD	2.99 g 0:dg substance			

12.3. Bioaccumulative potential

2.3. Bioaccumulative potential					
Petroleum distillates, hydrotreated lig	ht (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 ≤ BCF ≤ 5000).				
n-Heptane (142-82-5)					
Log Pow	4.66				
Octane (111-65-9)					
Log Pow	5.18				
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)				
BCF fish 1	61 - 159				
Log Pow	2.9 - 6.1				
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).				

11/15/2023 EN (English US) 13/21



naphthalene (91-20-3)		
BCF fish 1	30 - 430	
Log Pow	3.6	
Bioaccumulative potential	Not established.	

12.4. Mobility in soil

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.		

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

12.5. Other adverse effects

n-hexane (110-54-3)	
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		
naphthalene (91-20-3)		
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 : UN 1993 Flammable liquid, n.o.s. (Diesel Fuel), 3, III

UN-No.(DOT) : 1993

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

Diesel Fuel

Class (DOT) : 3 - Flammable Liquids
Packing group (DOT) : III - Minor Danger

Dangerous for the environment : Yes

11/15/2023 EN (English US) 14/21



Marine pollutant : Yes



DOT Packaging Non Bulk (49 CFR 173.xxx)

DOT Packaging Bulk (49 CFR 173.xxx)

DOT Special Provisions (49 CFR 172.102)

DOT Symbols

: 241

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

requiring a technical name

: 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) Normal178.275(d)(2)

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)

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 1993 FLAMMABLE LIQUID, N.O.S. (Diesel Fuel), 3, III

UN-No. (IMDG) : 1993

Proper Shipping Name (IMDG) : FLAMMABLE LIQUID, N.O.S.

Class (IMDG) : 3 - Flammable liquids

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

Marine pollutant : Yes



Air transport

Transport document description (IATA) : UN 1993 Flammable liquid, n.o.s. (Diesel Fuel), 3, III

UN-No. (IATA) : 1993

: Flammable liquid, n.o.s. Proper Shipping Name (IATA) : 3 - Flammable Liquids Class (IATA) 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

11/15/2023 EN (English US) 15/21



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

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

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

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

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)

11/15/2023 EN (English US) 16/21



Octane (111-65-9)

Listed on the Canadian DSL (Domestic Substances List)

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)

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)

naphthalene (91-20-3)

Listed on the Canadian DSL (Domestic Substances List)

Toxic Substance (CEPA - Schedule I)

Yes

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)

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)

11/15/2023 EN (English US) 17/21



Cumene (98-82-8)

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)

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)

11/15/2023 EN (English US) 18/21



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)

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)

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)

11/15/2023 EN (English US) 19/21



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)

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)

15.3. US State regulations



This product can expose you to Cumene, 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		

11/15/2023 EN (English US) 20/21



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		
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	

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

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

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

11/15/2023 EN (English US) 21/21



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

SECTION 16: Other information

Revision date : 11/15/2023

Full text of H-phrases:

<u> </u>		
H226	Flammable liquid and vapor	
H304	May be fatal if swallowed and enters airways	
H315	Causes skin irritation	
H319	Causes serious eye irritation	
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)

The information contained in this document is based upon data believed to be reliable at the time of going to press and relates to the matters specifically mentioned in this document. This information is offered to cover the ASTM Test Monitoring Center's inventory of reference oils identified in Section 1. Although the ASTM Test Monitoring Center has used information provided by their suppliers in the preparation of this information, in the absence of any overriding obligations arising under a specific contract, no representation, warranty (express or implied), or guarantee is made to the suitability, accuracy, reliability or completeness of the information; nothing in this document shall reduce the user's responsibility to satisfy itself as to the suitability, accuracy, reliability and completeness of such information for its particular use; there is no warranty against intellectual property infringement; and the ASTM Test Monitoring Center shall not be liable for any loss, damage or injury that may occur from the use of this information other than death or personal injury caused by its negligence. No statement shall be construed as an endorsement of any product or process. For greater certainty, before use of the information contained in this document, particularly if the product is used for the purpose or under conditions which are abnormal or not reasonably foreseeable, this information must be reviewed with the supplier of this information.

11/15/2023 EN (English US) 22/21