

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Trade name	DFA23 & DFB23 (TMC Reference Fluid DFLUB)
Chemical name	: Diesel
CAS-No.	: 68476-34-6
Product code	¹ DFA23 & DFB23

1.2.	Recommended use and restrictions on use			
Use of the	e substance/mixture	: Research fuel for bench testing		
1.3.	Supplier			
Distributed by: Test Monitoring Center 203 Armstrong Dr. Freeport, PA 16229 USA				

1.4. Emergency telephone number

Email address for further information: <u>GHS-sds@astmtmc</u>.org USA emergency telephone number: 1-800-424-9300 Ext. 3905, International emergency telephone number: +1 202-366-4488 CHEMTREC Customer Number 1004806

SECTION 2: Hazard(s) identification

2.1. 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 exposure) Category 3	H336	May cause drowsiness or dizziness
Specific target organ toxicity (single exposure) Category 3	H335	May cause respiratory irritation
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- Acute Hazard Category 2	H401	Toxic to aquatic life
Hazardous to the aquatic nvironment - Chronic Hazard Category 2	H411	Toxic to aquatic life with long lasting effects
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Full text of H statements : see section 16



2.2. GHS Label elements, including	precautionary statements
GHS-US labeling	
Hazard pictograms (GHS-US)	
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	 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 healt/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 P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower P305+P351+P383 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P304+P340 - 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) P332+P313 - If exin irritation occurs: Get medical advice/attention. P332+P313 - If exin irritation occurs: Get medical advice/attention. P332+P313 - If exin irritation occurs: Get medical advice/attention. P332+P313 - If exin irritation occurs: Get medical advice/attention. P332+P313 - If exin irritation persists: Get medical advice/attention. P332+P313 - If exin irritation persists: Get medical

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2.3. Other hazards which do not result in classification

No additional information available



2.4. Unknown acute toxicity (GHS US)

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Not ap	plicable	
SECT	FION 3: Composition/Information on ingredients	
3.1.	Substances	
Chemio	cal name : Diesel	
CAS-N	lo. : 68476-34-6	
Name	e	Product identifier
Diesel	I	(CAS-No.) 68476-34-6
Petrol	eum Distillates	(CAS-No.) 8002-05-9
Petrol	eum distillates, hydrotreated light	(CAS-No.) 64742-47-8
obtain numbe	nt naphtha (petroleum), heavy arom.; Kerosine - unspecified, [A complex combination of hydrocarbo ned from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having ers predominantly in the range of C9 through C16 and boiling in the range of approximately 165 °C t 30 °F to 554 °F).]	carbon
Distilla	ates, petroleum, hydrotreated middle	(CAS-No.) 64742-46-7
Solver	(CAS-No.) 64742-95-6	
xylene		(CAS-No.) 1330-20-7
naphthalene		(CAS-No.) 91-20-3
n-hexane		(CAS-No.) 110-54-3
n-Hep	tane	(CAS-No.) 142-82-5

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

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

3.2. **Mixtures** Not applicable

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SECTION 4: First-aid measures Description of first aid measures 4.1. 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. Most important symptoms and effects (acute and delayed) 4.2. 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.

SECTIO	N 5: Fire-fighting measures	
5.1.	Suitable (and unsuitable) extinguishir	ng media
Suitable e	xtinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2.	Specific hazards arising from the che	mical
Fire hazar	d	: Flammable liquid and vapor.
Reactivity		: Flammable liquid and vapor.

%

100

70 - 80

5- 15

5-15

0-2

(CAS-No.) 98-82-8



5.3.	Special protective equipment and p	precautions for fire fighters
Protectio	on during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTI	ON 6: Accidental release mea	sures
6.1.	Personal precautions, protective ed	quipment and emergency procedures
6.1.1.	For non-emergency personnel	
Emerger	ncy 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	
Protectiv	e 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 rel	lease to the environment. Notify authori	ties if product enters sewers or public waters.
6.3.	Methods and material for containm	ent and cleaning up
For conta	ainment	: Collect spillage.
Methods	for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other inf	ormation	: Dispose of materials or solid residues at an authorized site.
6.4.	Reference to other sections	
For furth	er information refer to section 13.	
SECTI	ON 7: Handling and storage	
7.1.	Precautions for safe handling	
Precautio	ons 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, includ	
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/m ³)	100 mg/m ³ (inhalable fraction and vapor)	
ACGIH	ACGIH Regulatory reference ACGIH 2018		
Petroleum Distillates (8002-0	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/m ³)	350 mg/m ³	
NIOSH	NIOSH REL (ceiling) (mg/m³)	1800 mg/m³	



OSHA OSHA PEL (TWA) (ppm) 500 ppm Distiliates, petroloum, hydrotested middle (dt742-66-7) 500 ppm OSHA OSHA PEL (TWA) (ppm) 500 ppm n-hexane (110-54-3) n-Hexane n-Hexane ACGIH Local name n-Hexane 500 ppm ACGIH Remark (ACGIH) ONS imgain; peripheral neuropathy; eye ir; Skin: BEI ACGIH Regulatory reference (US-OSHA) OSHA OSHA OSHA PEL (TWA) (ppm) 100 ppm OSHA NOSH PEL (TWA) (ppm) 100 ppm OSHA Regulatory reference (US-OSHA) OSHA OSHA NOSH REL (TWA) (ppm) 100 ppm NIOSH NOSH REL (TWA) (ppm) 500 ppm NIOSH NOSH REL (TWA) (ppm) 500 ppm NIOSH NOSH REL (TWA) (ppm) 500 ppm ACGIH ACGIH TWA (ppm) 400 ppm ACGIH ACGIH TWA (ppm) 500 ppm </th <th>Petroleum distillates, hydrot</th> <th>reated light (64742-47-8)</th> <th></th>	Petroleum distillates, hydrot	reated light (64742-47-8)	
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ACGIHLocal nameHeptane, all isomersACGIHACGIH TWA (ppm)400 ppmACGIHACGIH STEL (ppm)500 ppmACGIHRegulatory referenceACGIH 2018OSHAOSHA PEL (TWA) (mg/m²)2000 mg/m²OSHAOSHA PEL (TWA) (ppm)500 ppmOSHAOSHA PEL (TWA) (ppm)500 ppmOSHANIOSH REL (TWA) (mg/m²)350 mg/m²NIOSHNIOSH REL (TWA) (ppm)750 ppmNIOSHNIOSH REL (TWA) (ppm)85 ppmNIOSHNIOSH REL (celling) (mg/m²)1800 mg/m²NIOSHNIOSH REL (celling) (mg/m²)1800 mg/m²NIOSHNIOSH REL (celling) (ppm)440 ppmOctaneCotaneACGIHLocal nameOctaneACGIHACGIH TWA (ppm)300 ppmACGIHRemark (ACGIH)URT irrACGIHRegulatory referenceACGIH 2018OSHAOSHA PEL (TWA) (mg/m²)2350 mg/m²OSHAOSHA PEL (TWA) (mg/m²)2350 mg/m²OSHAOSHA PEL (TWA) (mg/m²)2350 mg/m²OSHAOSHA PEL (TWA) (mg/m²)2350 mg/m²OSHANIOSH REL (celling) (mg/m²)350 mg/m²OSHANIOSH REL (TWA) (ppm)500 ppmOSHANIOSH REL (TWA) (mg/m²)350 mg/m²OSHANIOSH REL (TWA) (mg/m²)350 mg/m²NIOSHNIOSH REL (TWA) (mg/m²)350 mg/m²NIOSHNIOSH REL (TWA) (mg/m²)350 mg/m²NIOSHNIOSH REL (TWA) (mg/m²)350 mg/m²NIOSHNIOSH REL (TWA)	NIOSH	NIOSH REL (TWA) (ppm)	50 ppm
ACGIHACGIH TWA (ppm)400 ppmACGIHACGIH STEL (ppm)500 ppmACGIHRegulatory referenceACGIH 2018OSHAOSHA PEL (TWA) (mg/m²)2000 mg/m²OSHAOSHA PEL (TWA) (pgm)500 ppmOSHARegulatory reference (US-OSHA)OSHAIDLHUS IDLH (ppm)750 ppmNIOSHNIOSH REL (TWA) (mg/m²)350 mg/m²NIOSHNIOSH REL (TWA) (pgm)85 ppmNIOSHNIOSH REL (TWA) (pgm)850 pmNIOSHNIOSH REL (TWA) (pgm)440 ppmOctane (111-65-9)VVACGIHACGIH TWA (ppm)300 ppmACGIHRegulatory referenceVACGIHRegulatory referenceACGIH 2018ACGIHRemark (ACGIH)URT irrACGIHRegulatory referenceACGIH 2018OSHAOSHA PEL (TWA) (mg/m²)2350 mg/m²ACGIHNIOSH PEL (TWA) (pgm)500 ppmACGIHQSHA PEL (TWA) (mg/m²)350 mg/m²ACGIHUBLH (ppm)1000 ppmACGIHUS DLH (ppm)500 ppmOSHANIOSH REL (TWA) (mg/m²)350 mg/m²ACGIHUS DLH (ppm)1000 ppmACGIHUS DLH (ppm)350 mg/m²NIOSHNIOSH REL (TWA) (mg/m²)350 mg/m²NIOSH	n-Heptane (142-82-5)		<u> </u>
ACGIHACGIH STEL (ppm)500 ppmACGIHRegulatory referenceACGIH 2018OSHAOSHA PEL (TWA) (mg/m³)2000 mg/m³OSHAOSHA PEL (TWA) (ppm)500 ppmOSHARegulatory reference (US-OSHA)OSHAIDLHUS IDLH (ppm)750 ppmNIOSHNIOSH REL (TWA) (ng/m³)350 mg/m³NIOSHNIOSH REL (TWA) (ng/m³)350 mg/m³NIOSHNIOSH REL (TWA) (ng/m³)85 ppmNIOSHNIOSH REL (ceiling) (mg/m³)1800 mg/m³NIOSHNIOSH REL (ceiling) (mg/m³)300 ppmACGIHLocal nameOctaneACGIHACGIH TWA (ppm)300 ppmACGIHRemark (ACGIH)URT irACGIHRegulatory referenceACGIH 2018OSHAOSHA PEL (TWA) (ng/m³)2350 mg/m³OSHAOSHA PEL (TWA) (mg/m³)500 ppmACGIHRegulatory referenceACGIH 2018OSHAOSHA PEL (TWA) (mg/m³)350 mg/m³OSHAOSHA PEL (TWA) (ng/m³)500 ppmOSHARegulatory reference (US-OSHA)OSHAIDLHUS IDLH (ppm)1000 ppm (10% LEL)NIOSHNIOSH REL (TWA) (mg/m³)350 mg/m³NIOSHNIOSH REL (TWA) (mg/m³)1800 mg/m³NIOSHNIOSH REL (TWA) (mg/m³)350 mg/m³	ACGIH	Local name	Heptane, all isomers
ACGIHRegulatory referenceACGIH 2018OSHAOSHA PEL (TWA) (mg/m³)2000 mg/m³OSHAOSHA PEL (TWA) (ppm)500 ppmOSHARegulatory reference (US-OSHA)OSHAIDLHUS IDLH (ppm)750 ppmNIOSHNIOSH REL (TWA) (mg/m³)350 mg/m³NIOSHNIOSH REL (TWA) (ppm)85 ppmNIOSHNIOSH REL (ceiling) (mg/m³)1800 mg/m³NIOSHNIOSH REL (ceiling) (mg/m³)440 ppmOctane (111-65-9)OctaneACGIHLocal nameOctaneACGIHRegulatory referenceACGIH 2018ACGIHRegulatory referenceACGIH 2018OSHAOSHA PEL (TWA) (mg/m³)300 ppmACGIHRegulatory referenceACGIH 2018OSHAOSHA PEL (TWA) (mg/m³)2350 mg/m³OSHAOSHA PEL (TWA) (mg/m³)500 ppmOSHAOSHA PEL (TWA) (mg/m³)500 ppmOSHAOSHA PEL (TWA) (mg/m³)350 mg/m³OSHANIOSH REL (TWA) (mg/m³)350 mg/m³OSHARegulatory reference (US-OSHA)OSHAIDLHUS IDLH (ppm)1000 ppm (10% LEL)INIOSHNIOSH REL (TWA) (mg/m³)350 mg/m³NIOSHNIOSH REL (ceiling) (mg/m³)385 ppmNIOSHNIOSH REL (ceiling) (mg/m³)385 ppm </td <td>ACGIH</td> <td>ACGIH TWA (ppm)</td> <td>400 ppm</td>	ACGIH	ACGIH TWA (ppm)	400 ppm
OSHAOSHA PEL (TWA) (mg/m³)2000 mg/m³OSHAOSHA PEL (TWA) (mg/m³)500 ppmOSHARegulatory reference (US-OSHA)OSHAIDLHUS IDLH (ppm)750 ppmNIOSHNIOSH REL (TWA) (mg/m³)350 mg/m³NIOSHNIOSH REL (TWA) (mg/m³)350 mg/m³NIOSHNIOSH REL (ceiling) (mg/m³)1800 mg/m³NIOSHNIOSH REL (ceiling) (mg/m³)1800 mg/m³NIOSHNIOSH REL (ceiling) (ppm)440 ppmOctane (111-65-9)ACGIHLocal nameACGIHLocal name (ACGIH)URT irrACGIHRegulatory referenceACGIH 2018OSHAOSHA PEL (TWA) (mg/m³)2350 mg/m³OSHAOSHA PEL (TWA) (mg/m³)2350 mg/m³OSHAOSHA PEL (TWA) (mg/m³)500 ppmOSHAOSHA PEL (TWA) (mg/m³)500 ppmOSHAOSHA PEL (TWA) (mg/m³)500 ppmOSHAOSHA PEL (TWA) (mg/m³)350 mg/m³OSHAOSHA PEL (TWA) (mg/m³)350 mg/m³OSHAOSHA PEL (TWA) (mg/m³)350 mg/m³OSHANIOSH REL (TWA) (mg/m³)350 mg/m³NIOSHNIOSH REL (TWA) (mg/m³)350 mg/m³NIOSHNIOSH REL (ceiling) (mg/m³)1800 mg/m³NIOSHNIOSH REL (ceiling) (mg/m³)385 ppmSolvent naphtha (petroleum), heavy arom.; Kerosine - unspecified, JA cosh having carbon numbers predominantity in the range of C9 through C16 and boiling in the range o	ACGIH	ACGIH STEL (ppm)	500 ppm
OSHAOSHA PEL (TWA) (ppm)500 ppmOSHARegulatory reference (US-OSHA)OSHAIDLHUS IDLH (ppm)750 ppmNIOSHNIOSH REL (TWA) (mg/m³)350 mg/m³NIOSHNIOSH REL (TWA) (ppm)85 ppmNIOSHNIOSH REL (ceiling) (mg/m³)1800 mg/m³NIOSHNIOSH REL (ceiling) (ppm)440 ppmOctane (111-65-9)ACGIHLocal nameACGIHLocal nameOctaneACGIHACGIH TWA (ppm)300 ppmACGIHRemark (ACGIH)URT irrACGIHRegulatory referenceACGIH 2018OSHAOSHA PEL (TWA) (mg/m³)2350 mg/m³OSHAOSHA PEL (TWA) (mg/m³)500 ppmOSHAOSHA PEL (TWA) (mg/m³)350 mg/m³OSHAOSHA PEL (TWA) (mg/m³)350 mg/m³OSHANIOSH REL (TWA) (mg/m³)500 ppmOSHAOSHA PEL (TWA) (mg/m³)350 mg/m³OSHANIOSH REL (TWA) (mg/m³)350 mg/m³NIOSHNIOSH REL (ceiling) (mg/m³)1800 mg/m³NIOSHNIOSH REL (ceiling) (mg/m³)385 ppmSolvent naphtha (petroleum), heavy arcm: Kerosine - unspecified, IA 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	ACGIH	Regulatory reference	ACGIH 2018
OSHARegulatory reference (US-OSHA)OSHAIDLHUS IDLH (ppm)750 ppmNIOSHNIOSH REL (TWA) (mg/m³)350 mg/m³NIOSHNIOSH REL (TWA) (ppm)85 ppmNIOSHNIOSH REL (ceiling) (mg/m³)1800 mg/m³NIOSHNIOSH REL (ceiling) (ppm)440 ppmOctane (111-65-9)ACGIHLocal nameOctaneACGIHACGIH TWA (ppm)300 ppmACGIHRemark (ACGIH)URT irrACGIHRegulatory referenceACGIH 2018OSHAOSHA PEL (TWA) (mg/m³)2350 mg/m³OSHAOSHA PEL (TWA) (mg/m³)500 ppmOSHAOSHA PEL (TWA) (mg/m³)500 ppmOSHANIOSH REL (TWA) (mg/m³)350 mg/m³OSHANIOSH REL (TWA) (mg/m³)350 mg/m³NIOSHNIOSH REL (ceiling) (mg/m³)1800 mg/m³NIOSHNIOSH REL (ceiling) (mg/m³)385 ppmSolvent naphtha (petroleum), heavy arom.: Kerosine - unspecified, (A complex combinanticy 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) (mg/m ³)	2000 mg/m³
IDLHUS IDLH (ppm)750 ppmNIOSHNIOSH REL (TWA) (mg/m³)350 mg/m³NIOSHNIOSH REL (TWA) (mg/m³)85 ppmNIOSHNIOSH REL (ceiling) (mg/m³)1800 mg/m³NIOSHNIOSH REL (ceiling) (mg/m³)440 ppmOctane (111-65-9)ACGIHLocal nameOctaneACGIHLocal nameOctaneACGIHRemark (ACGIH)URT irrACGIHRegulatory referenceACGIH 2018OSHAOSHA PEL (TWA) (mg/m³)350 mg/m³OSHAOSHA PEL (TWA) (mg/m³)2350 mg/m³OSHAOSHA PEL (TWA) (mg/m³)500 ppmOSHANIOSH REL (TWA) (mg/m³)500 ppmOSHANIOSH REL (TWA) (mg/m³)350 mg/m³OSHANIOSH REL (TWA) (mg/m³)350 mg/m³NIOSHNIOSH REL (ceiling) (mg/m³)1800 mg/m³NIOSHNIOSH REL (ceiling) (mg/m³)385 ppmSolvent naphtha (petroleum), heavy arom.; Kerosine - unspecified, (A complex combination of hydrocarbons obtained from distillation of faromatics predominantly in the range of C9 through C16 and boiling in Ur arge of approximately 165 °C to 290 °C (330 °F to 554 °F.).] (64742-94-5)	OSHA	OSHA PEL (TWA) (ppm)	500 ppm
NIOSHNIOSH REL (TWA) (mg/m³)350 mg/m³NIOSHNIOSH REL (TWA) (ppm)85 ppmNIOSHNIOSH REL (ceiling) (mg/m³)1800 mg/m³NIOSHNIOSH REL (ceiling) (ppm)440 ppmOctane (111-65-9)ACGIHLocal nameOctaneACGIHLocal nameOctaneACGIHACGIH TWA (ppm)300 ppmACGIHRemark (ACGIH)URT irrACGIHRegulatory referenceACGIH 2018OSHAOSHA PEL (TWA) (mg/m³)2350 mg/m³OSHAOSHA PEL (TWA) (ppm)500 ppmOSHAOSHA PEL (TWA) (ppm)500 ppmOSHANIOSH REL (TWA) (ppm)500 ppmOSHANIOSH REL (TWA) (mg/m³)350 mg/m³NIOSHNIOSH REL (TWA) (ppm)75 ppmNIOSHNIOSH REL (ceiling) (mg/m³)1800 mg/m³NIOSHNIOSH REL (ceiling) (mg/m³)385 ppmSolvent naphtha (petroleum)- heavy arom.; Kerosine - unspecified, [A complex combination of hydrocarbons obtained from distillation of faromatic tydrocarbons 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	Regulatory reference (US-OSHA)	OSHA
NIOSHNIOSH REL (TWA) (ppm)85 ppmNIOSHNIOSH REL (ceiling) (mg/m³)1800 mg/m³NIOSHNIOSH REL (ceiling) (ppm)440 ppmOctane (111-65-9)ACGIHLocal nameOctaneACGIHACGIH TWA (ppm)300 ppmACGIHRemark (ACGIH)URT irrACGIHRegulatory referenceACGIH 2018OSHAOSHA PEL (TWA) (mg/m³)2350 mg/m³OSHAOSHA PEL (TWA) (ppm)500 ppmOSHARegulatory reference (US-OSHA)OSHAIDLHUS IDLH (ppm)1000 ppm (10% LEL)NIOSHNIOSH REL (TWA) (mg/m³)350 mg/m³NIOSHNIOSH REL (TWA) (ppm)75 ppmNIOSHNIOSH REL (Ceiling) (mg/m³)1800 mg/m³NIOSHNIOSH REL (ceiling) (mg/m³)385 ppmNIOSHNIOSH REL (ceiling) (mg/m³)385 ppmSolvent 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)	IDLH	US IDLH (ppm)	750 ppm
NIOSHNIOSH REL (ceiling) (mg/m³)1800 mg/m³NIOSHNIOSH REL (ceiling) (ppm)440 ppmOctane (111-65-9)ACGIHLocal nameOctaneACGIHACGIH TWA (ppm)300 ppmACGIHRemark (ACGIH)URT irrACGIHRegulatory referenceACGIH 2018OSHAOSHA PEL (TWA) (mg/m³)2350 mg/m³OSHAOSHA PEL (TWA) (ppm)500 ppmOSHANIOSH REL (TWA) (ppm)S00 ppmOSHANIOSH REL (TWA) (ppm)500 ppmOSHANIOSH REL (TWA) (ppm)350 mg/m³NIOSHNIOSH REL (TWA) (mg/m³)350 mg/m³NIOSHNIOSH REL (TWA) (ppm)350 mg/m³NIOSHNIOSH REL (TWA) (ppm)75 ppmNIOSHNIOSH REL (ceiling) (mg/m³)385 ppmSolvent naphtha (petroleur), heavy arom.; Kerosine - unspecified, [A complex combination of hydrocarbons obtained from distillation of f aromatic streams. It consists predominantly of aromatic hydrocarbons having ctron numbers predominantly in the range of C9through C16 and boiling in the range of approximately 165 °C to 290 °C (330 °F to 54 °F.) [(44742-94-5)	NIOSH	NIOSH REL (TWA) (mg/m ³)	350 mg/m ³
NIOSHNIOSH REL (ceiling) (ppm)440 ppmOctane (111-65-9)ACGIHLocal nameOctaneACGIHACGIH TWA (ppm)300 ppmACGIHRemark (ACGIH)URT irrACGIHRegulatory referenceACGIH 2018OSHAOSHA PEL (TWA) (mg/m³)2350 mg/m³OSHAOSHA PEL (TWA) (ppm)500 ppmOSHAOSHA PEL (TWA) (ppm)500 ppmOSHAIDLH (ppm)1000 ppm (10% LEL)NIOSHNIOSH REL (TWA) (mg/m³)350 mg/m³NIOSHNIOSH REL (TWA) (ppm)75 ppmNIOSHNIOSH REL (ceiling) (mg/m³)1800 mg/m³NIOSHNIOSH REL (ceiling) (mg/m³)385 ppmSolvent 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)	NIOSH	NIOSH REL (TWA) (ppm)	85 ppm
Octane (111-65-9)ACGIHLocal nameOctaneACGIHACGIH TWA (ppm)300 ppmACGIHRemark (ACGIH)URT irrACGIHRegulatory referenceACGIH 2018OSHAOSHA PEL (TWA) (mg/m³)2350 mg/m³OSHAOSHA PEL (TWA) (ppm)500 ppmOSHAOSHA PEL (TWA) (ppm)500 ppmOSHAIDLH (ppm)0SHAIDLHUS IDLH (ppm)0SHANIOSHNIOSH REL (TWA) (mg/m³)350 mg/m³NIOSHNIOSH REL (TWA) (mg/m³)350 mg/m³NIOSHNIOSH REL (TWA) (ppm)75 ppmNIOSHNIOSH REL (ceiling) (mg/m³)1800 mg/m³NIOSHNIOSH REL (ceiling) (ppm)385 ppmSolvent naphtha (petroleum), heavy arom.; Kerosine - unspecified, [A complex combination of hydrocarbons obtained from distillation 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)	NIOSH	NIOSH REL (ceiling) (mg/m ³)	1800 mg/m³
ACGIHLocal nameOctaneACGIHACGIH TWA (ppm)300 ppmACGIHRemark (ACGIH)URT irrACGIHRegulatory referenceACGIH 2018OSHAOSHA PEL (TWA) (mg/m³)2350 mg/m³OSHAOSHA PEL (TWA) (ppm)500 ppmOSHAOSHA PEL (TWA) (ppm)500 ppmOSHARegulatory reference (US-OSHA)OSHAIDLHUS IDLH (ppm)1000 ppm (10% LEL)NIOSHNIOSH REL (TWA) (mg/m³)350 mg/m³NIOSHNIOSH REL (TWA) (ppm)75 ppmNIOSHNIOSH REL (ceiling) (mg/m³)1800 mg/m³NIOSHNIOSH REL (ceiling) (ppm)385 ppmSolvent 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)	NIOSH	NIOSH REL (ceiling) (ppm)	440 ppm
ACGIHACGIH TWA (ppm)300 ppmACGIHRemark (ACGIH)URT irrACGIHRegulatory referenceACGIH 2018OSHAOSHA PEL (TWA) (mg/m³)2350 mg/m³OSHAOSHA PEL (TWA) (ppm)500 ppmOSHARegulatory reference (US-OSHA)OSHAIDLHUS IDLH (ppm)1000 ppm (10% LEL)NIOSHNIOSH REL (TWA) (mg/m³)350 mg/m³NIOSHNIOSH REL (TWA) (ppm)75 ppmNIOSHNIOSH REL (ceiling) (mg/m³)1800 mg/m³NIOSHNIOSH REL (ceiling) (ppm)385 ppmSolvent naphtha (petroleum) heavy arom.; Kerosine - unspecified, [A complex combinantly 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)	Octane (111-65-9)		1
ACGIHRemark (ACGIH)URT irrACGIHRegulatory referenceACGIH 2018OSHAOSHA PEL (TWA) (mg/m³)2350 mg/m³OSHAOSHA PEL (TWA) (ppm)500 ppmOSHAOSHA PEL (TWA) (ppm)500 ppmOSHARegulatory reference (US-OSHA)OSHAIDLHUS IDLH (ppm)1000 ppm (10% LEL)NIOSHNIOSH REL (TWA) (mg/m³)350 mg/m³NIOSHNIOSH REL (TWA) (ppm)75 ppmNIOSHNIOSH REL (ceiling) (mg/m³)1800 mg/m³NIOSHNIOSH REL (ceiling) (ppm)385 ppmSolvent 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)	ACGIH	Local name	Octane
ACGIHRegulatory referenceACGIH 2018OSHAOSHA PEL (TWA) (mg/m³)2350 mg/m³OSHAOSHA PEL (TWA) (ppm)500 ppmOSHAOSHA PEL (TWA) (ppm)0SHAIDLHUS IDLH (ppm)1000 ppm (10% LEL)NIOSHNIOSH REL (TWA) (mg/m³)350 mg/m³NIOSHNIOSH REL (TWA) (ppm)75 ppmNIOSHNIOSH REL (ceiling) (mg/m³)1800 mg/m³NIOSHNIOSH REL (ceiling) (ppm)385 ppmSolvent 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)	ACGIH	ACGIH TWA (ppm)	300 ppm
OSHAOSHA PEL (TWA) (mg/m³)2350 mg/m³OSHAOSHA PEL (TWA) (ppm)500 ppmOSHARegulatory reference (US-OSHA)OSHAIDLHUS IDLH (ppm)1000 ppm (10% LEL)NIOSHNIOSH REL (TWA) (mg/m³)350 mg/m³NIOSHNIOSH REL (TWA) (ppm)75 ppmNIOSHNIOSH REL (ceiling) (mg/m³)1800 mg/m³NIOSHNIOSH REL (ceiling) (mg/m³)385 ppmSolvent 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)	ACGIH	Remark (ACGIH)	URT irr
OSHAOSHA PEL (TWA) (ppm)500 ppmOSHARegulatory reference (US-OSHA)OSHAIDLHUS IDLH (ppm)1000 ppm (10% LEL)NIOSHNIOSH REL (TWA) (mg/m³)350 mg/m³NIOSHNIOSH REL (TWA) (ppm)75 ppmNIOSHNIOSH REL (ceiling) (mg/m³)1800 mg/m³NIOSHNIOSH REL (ceiling) (mg/m³)385 ppmSolvent 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)	ACGIH	Regulatory reference	ACGIH 2018
OSHARegulatory reference (US-OSHA)OSHAIDLHUS IDLH (ppm)1000 ppm (10% LEL)NIOSHNIOSH REL (TWA) (mg/m³)350 mg/m³NIOSHNIOSH REL (TWA) (ppm)75 ppmNIOSHNIOSH REL (ceiling) (mg/m³)1800 mg/m³NIOSHNIOSH REL (ceiling) (ppm)385 ppmSolvent 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) (mg/m ³)	2350 mg/m³
IDLHUS IDLH (ppm)1000 ppm (10% LEL)NIOSHNIOSH REL (TWA) (mg/m³)350 mg/m³NIOSHNIOSH REL (TWA) (ppm)75 ppmNIOSHNIOSH REL (ceiling) (mg/m³)1800 mg/m³NIOSHNIOSH REL (ceiling) (mg/m³)385 ppmNIOSHNIOSH REL (ceiling) (ppm)385 ppmSolvent 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
NIOSHNIOSH REL (TWA) (mg/m³)350 mg/m³NIOSHNIOSH REL (TWA) (ppm)75 ppmNIOSHNIOSH REL (ceiling) (mg/m³)1800 mg/m³NIOSHNIOSH REL (ceiling) (mg/m³)385 ppmNIOSHNIOSH REL (ceiling) (ppm)385 ppmSolvent 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	Regulatory reference (US-OSHA)	OSHA
NIOSH NIOSH REL (TWA) (ppm) 75 ppm NIOSH NIOSH REL (ceiling) (mg/m³) 1800 mg/m³ NIOSH NIOSH REL (ceiling) (ppm) 385 ppm Solvent naphtha (petroleum), heavy arom.; Kerosine - unspecified, [A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 165 °C to 290 °C (330 °F to 554 °F).] (64742-94-5)	IDLH	US IDLH (ppm)	1000 ppm (10% LEL)
NIOSH NIOSH REL (ceiling) (mg/m³) 1800 mg/m³ NIOSH NIOSH REL (ceiling) (ppm) 385 ppm Solvent naphtha (petroleum), heavy arom.; Kerosine - unspecified, [A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 165 °C to 290 °C (330 °F to 554 °F).] (64742-94-5)	NIOSH	NIOSH REL (TWA) (mg/m ³)	350 mg/m³
NIOSH NIOSH REL (ceiling) (ppm) 385 ppm Solvent naphtha (petroleum), heavy arom.; Kerosine - unspecified, [A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 165 °C to 290 °C (330 °F to 554 °F).] (64742-94-5)	NIOSH	NIOSH REL (TWA) (ppm)	75 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)	NIOSH	NIOSH REL (ceiling) (mg/m³)	1800 mg/m³
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)	NIOSH	NIOSH REL (ceiling) (ppm)	385 ppm
OSHA OSHA PEL (TWA) (ppm) 500 ppm	of aromatic streams. It cons	ists predominantly of aromatic hydrocarbons having o	arbon numbers predominantly in the range of C9



Solvent naphtha, petrole	eum, 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 (255	51-13-7)	
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 (95-63-6)	
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-Trimethylbenzene	(108-67-8)	
ACGIH	ACGIH TWA (ppm)	25 ppm
NIOSH	NIOSH REL (TWA) (mg/m ³)	125 mg/m ³
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/m ³)	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
naphthalene (91-20-3)		
ACGIH	Local name	Naphthalene
ACGIH	ACGIH TWA (ppm)	10 ppm



A Program of ASTM International

naphthalene (91-20	-3)	
ACGIH	Remark (ACGIH)	Hematologic eff; URT & eye irr; Skin; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans: The agent is carcinogenic in experimental animals at a relatively high dose, by route(s) of administration, at site(s), of histologic type(s), or by mechanism(s) that may not be relevant to worker exposure. Available epidemiologic studies do not confirm an increased risk of cancer in exposed humans. Available evidence does not suggest that the agent is likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure)
ACGIH	Regulatory reference	ACGIH 2018
OSHA	OSHA PEL (TWA) (mg/m³)	50 mg/m ³
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/m ³
NIOSH	NIOSH REL (STEL) (ppm)	15 ppm

8.2. Appropriate engineering controls

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

: 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	: > 60 °C closed cup	
Relative evaporation rate (butyl acetate=1)	: No data available	
Flammability (solid, gas)	: Notapplicable.	
Vapor pressure	: No data available	



Relative vapor density at 20 °C	: No data available
Relative density	: 32 - 51 °API
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
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

SECT	TION 10: Stability and reactivity		
10.1.	Reactivity		
Flamm	nable liquid and vapor.		
10.2.	Chemical stability		
Stable	e 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 (6474	2-47-8)	
LD50 oral rat	> 5000 mg/kg	
LD50 dermal rabbit	> 2000 mg/kg	
LC50 inhalation rat (mg/l)	> 5.2 mg/l/4h	
Distillates, petroleum, hydrotreated middle (64742-46-7)		
LD50 oral rat	7400 mg/kg	
LD50 dermal rabbit	> 2000 mg/kg	
LC50 inhalation rat (mg/l)	4.6 mg/l/4h	
ATE US (oral)	7400 mg/kg body weight	
ATE US (vapors)	4.6 mg/l/4h	
ATE US (dust, mist)	4.6 mg/l/4h	



n-hexane (110-54-3)	
LD50 oral rat	25 g/kg
LD50 dermal rabbit	3000 mg/kg
LC50 inhalation rat (ppm)	48000 ppm/4h
ATE US (oral)	25000 mg/kg body weight
ATE US (dermal)	3000 mg/kg body weight
ATE US (gases)	48000 ppmV/4h
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
of aromatic streams. It consists predominantly through C16 and boiling in the range of approximately a	rosine - unspecified, [A complex combination of hydrocarbons obtained from distillation y of aromatic hydrocarbons having carbon numbers predominantly in the range of C9 ximately 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)
Solvent naphtha, petroleum, light aromatic (64	1742-95-6)
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)	
LD50 oral rat	3500 mg/kg
LD50 dermal rabbit	> 4350 mg/kg
LC50 inhalation rat (mg/l)	29.08 mg/l/4h
ATE US (oral)	3500 mg/kg body weight
ATE US (dermal)	1100 mg/kg body weight
ATE US (vapors)	29.08 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h
Trimethylbenzenes (25551-13-7)	
LD50 oral rat	8970 mg/kg
ATE US (oral)	8970 mg/kg body weight
1,2,4-trimethylbenzene (95-63-6)	
LD50 oral rat	3280 mg/kg
LD50 dermal rat	3440 mg/kg (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male/female, Read-across)
LD50 dermal rabbit	> 3160 mg/kg
LC50 inhalation rat (mg/l)	18 g/m³ (Exposure time: 4 h)
ATE US (oral)	3280 mg/kg body weight
ATE US (dermal)	3440 mg/kg body weight
ATE US (gases)	4500 ppmV/4h
ATE US (vapors)	18 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h
1,3,5-Trimethylbenzene (108-67-8)	
LC50 inhalation rat (mg/l)	24 g/m³ (Exposure time: 4 h)
ATE US (vapors)	24 mg/l/4h
ATE US (dust, mist)	24 mg/l/4h



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

ł

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

Aspiration hazard Symptoms/effects

: May be fatal if swallowed and enters airways.

- : May cause drowsiness or dizziness.
- : May cause respiratory irritation.
- Symptoms/effects after inhalation Symptoms/effects after skin contact Symptoms/effects after eye contact
- Symptoms/effects after ingestion
- 6/26/2023

: Irritation.

: Eye irritation.

: Risk of lung edema.



SECTION 12: Ecological information

12.1. Toxicity

Ecology - general

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

:



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	2 mg/l (Exposure time: 06 h. Species: Operhyrophys Mykies
EC50 Daphnia 1	3 mg/l (Exposure time: 96 h - Species: Oncorhynchus Mykiss < 0.26 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
· · ·	
Petroleum distillates, hydrotreated light (6474	
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 (6	
LC50 fish 1	35 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LC50 fish 2	> 10000 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
n-Heptane (142-82-5)	
LC50 fish 1	375 mg/l (Exposure time: 96 h - Species: Cichlid fish)
EC50 Daphnia 1	> 10 mg/l 24hr
LC50 fish 2	0.1 mg/l (Exposure time: 96 h - Species: Mysidopsis Bahia)
Octane (111-65-9)	
EC50 Daphnia 1	0.38 mg/l (Exposure time: 48 h - Species: water flea)
· · · · · · · · · · · · · · · · · · ·	erosine - unspecified, [A complex combination of hydrocarbons obtained from distillation
of aromatic streams. It consists predominant	ly of aromatic hydrocarbons having carbon numbers predominantly in the range of C9 pximately 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)	
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])
	7.72 mg/r (Exposure time: 90 n - Species: Pimephales prometas [ilow-timough])
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])
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])

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



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 O:lg 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 O:lg substance
Chemical oxygen demand (COD)	2.42 g O:lg substance
ThOD	3.2 g O: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 O:lg substance
ThOD	2.99 g O:lg substance

12.3. Bioaccumulative potential

Petroleum distillates, hydrotreated lig	jht (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 \leq BCF \leq 5000).
n-Heptane (142-82-5)	
Log Pow	4.66
Octane (111-65-9)	
Log Pow	5.18
of aromatic streams. It consists predo	rrom.; 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).



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 consider	ations	
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 informa	tion	

Department of Transportation (DOT)

In accordance with DOT

Dangerous for the environment

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



Marine pollutant	: Yes
DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Symbols DOT Special Provisions (49 CFR 172.102)	 203 241 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) Normal
DOT Packaging Exceptions (49 CFR 173.xxx) DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 150 : 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-No. (IMDG)	: UN 1993 FLAMMABLE LIQUID, N.O.S. (Diesel Fuel), 3, III : 1993
Proper Shipping Name (IMDG)	: FLAMMABLE LIQUID, N.O.S.
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG) Marine pollutant	: III - substances presenting low danger : Yes
	₹¥2
Air transport	
Transport document description (IATA)	: UN 1993 Flammable liquid, n.o.s. (Diesel Fuel), 3, III
UN-No. (IATA) Proper Shipping Name (IATA)	: 1993 : Flammable liquid, n.o.s.
Class (IATA)	: 3 - Flammable Liquids
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 EN (English US)



Petroleum distillates, hydrotreated light (6474	2-47-8)
Listed on the United States TSCA (Toxic Substan	ices Control Act) inventory
Distillates, petroleum, hydrotreated middle (64	4742-46-7)
Listed on the United States TSCA (Toxic Substan	nces Control Act) inventory
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 Substar	nces Control Act) inventory
	Prosine - unspecified, [A complex combination of hydrocarbons obtained from distillation of communic 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 Substan	nces Control Act) inventory
Solvent naphtha, petroleum, light aromatic (64	1742-95-6)
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 Substan	nces Control Act) inventory
1,2,4-trimethylbenzene (95-63-6)	
Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United State	
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
naphthalene (91-20-3)	
Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United State	
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)



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
U-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)

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



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)



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)



 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 Chemicals 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 IECSC (Inventory of Existing Chemical Substances) Listed on the AICS (Australian Inventory of Chemical Substances) Listed on the AICS (Australian Inventory of Chemical Substances) Listed on the AICS (Australian Inventory of Chemical Substances) Listed on the AICS (Inventory of Existing Chemical Substances) Listed on the AICS (Liventory of Existing Chemical Substances) Listed on the Japanese ENCS (Existing & New Chemical Substances) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
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 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) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
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 IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
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 Chemicals 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 Chemicals Substances) Listed on CICR (Turkish Inventory and Control of Chemicals) Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations

▲ WARNING 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		



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 Distil	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 (110-5	4-3)						
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-trimethylbo	enzene (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-Trimethylb	1,3,5-Trimethylbenzene (108-67-8)						
U.S Massachusetts - Right To Know List							
Cumene (98-82-							
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							



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

06/26/2023

Full text of H-phrases:

Full	lext of H-phrases.				
	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			
NFF	PA 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.