



Diesel Cetane Booster Fuel Supplement - VP Cetanium®

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)
Revision date: 11/5/2025 Supersedes: 12/27/2024 Version: 2.0

SECTION 1 Identification

1.1. Product identifier

Product form : Mixture
Trade name : Diesel Cetane Booster Fuel Supplement - VP Cetanium®

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Diesel fuel additive
Restrictions on use : No additional information available

1.4. Supplier's details

Supplier

VP Racing Fuels, Inc.
7124 Richter Road
Elmendorf, TX 78112
USA
T +1 210-635-7744

1.5. Emergency phone number

Emergency number : CHEMTREC
USA Toll Free: +1-800-424-9300; International: +1-703-527-3887
Canada Local: +1 703-741-5970

SECTION 2 Hazard Identification

2.1. Classification of the substance or mixture

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR § 1910.1200)

Flammable liquid, Category 4	H227	Combustible liquid.
Acute toxicity (oral), Category 4	H302	Harmful if swallowed.
Acute toxicity (dermal), Category 4	H312	Harmful in contact with skin.
Acute toxicity (inhalation:vapor), Category 4	H332	Harmful if inhaled.
Skin corrosion/irritation, Category 2	H315	Causes skin irritation.
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 1	H370	Causes damage to organs.
Specific target organ toxicity — Repeated exposure, Category 2	H373	May cause damage to organs through prolonged or repeated 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 environment — Chronic Hazard, Category 2	H411	Toxic to aquatic life with long lasting effects.

Full text of H statements : see section 16

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2.2. Label elements

GHS US labeling

Hazard pictograms (GHS US)



Signal word (GHS US)

: Danger

Hazard statements (GHS US)

: H227 - Combustible liquid
H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H351 - Suspected of causing cancer.
H361 - Suspected of damaging fertility or the unborn child
H370 - Causes damage to organs.
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, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 - Do not breathe vapors.
P264 - Wash hands thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.
P280 - Wear protective gloves.
P301+P310 - If swallowed: Immediately call a POISON CENTER, a doctor.
P301+P312 - If swallowed: Call a POISON CENTER, a doctor if you feel unwell.
P302+P352 - If on skin: Wash with plenty of soap and water.
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.
P308+P311 - If exposed or concerned: Call a poison center or doctor.
P308+P313 - If exposed or concerned: Get medical advice/attention.
P312 - Call a POISON CENTER, a doctor if you feel unwell.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P330 - Rinse mouth.
P331 - Do NOT induce vomiting.
P332+P313 - If skin irritation occurs: Get medical advice or attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P370+P378 - In case of fire: Use carbon dioxide (CO₂), dry extinguishing powder, alcohol resistant foam to extinguish.
P391 - Collect spillage.
P403 - Store in a well-ventilated place.
P405 - Store locked up.
P501 - Dispose of contents/container to contents and container. a hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

2.4. Hazards not otherwise classified

No additional information available

2.5. Unknown acute toxicity

No additional information available

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SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments : The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with paragraph (i) of § 1910.1200

Name	Product identifier	%	GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR § 1910.1200)
2-ethylhexyl nitrate	CAS-No.: 27247-96-7	45 - 70	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Aquatic Chronic 2, H411
Fuels, diesel, No 2	CAS-No.: 68476-34-6	15 - 40	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Carc. 2, H351 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Nonane	CAS-No.: 111-84-2	0.1 - 1	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Naphthalene	CAS-No.: 91-20-3	0.1 - 1	Flam. Sol. 2, H228 Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
n-heptane	CAS-No.: 142-82-5	0.1 - 1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
n-hexane	CAS-No.: 110-54-3	0.1 - 1	Flam. Liq. 2, H225 Asp. Tox. 1, H304 STOT RE 2, H373 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Chronic 2, H411 Repr. 2, H361

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Name	Product identifier	%	GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR § 1910.1200)
Octane	CAS-No.: 111-65-9	0.1 - 1	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Toluene	CAS-No.: 108-88-3	0.1 - 1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Repr. 2, H361 STOT SE 3, H336 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412
Fuels, diesel, C9-18-alkane branched and linear	CAS-No.: 1159170-26-9	0.1 - 1	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Carc. 2, H351 STOT SE 1, H370 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
3-methylpentane	CAS-No.: 96-14-0	0.1 - 1	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Chronic 2, H411
Solvent naphtha (petroleum), heavy arom.	CAS-No.: 64742-94-5	3 - 7	Flam. Liq. 4, H227 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
1,2,4-trimethylbenzene	CAS-No.: 95-63-6	0.1 - 1	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Aquatic Chronic 2, H411
2-ethylhexan-1-ol	CAS-No.: 104-76-7	0.1 - 1	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Ethylbenzene	CAS-No.: 100-41-4		Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 STOT RE 2, H373 Asp. Tox. 1, H304

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Comments	: Substances considered to be Marine Pollutant according to transport regulations: 2-ethylhexyl nitrate Fuels, diesel, No 2 Solvent naphtha (petroleum), heavy arom. Fuels, diesel, C9-18-alkane branched and linear Naphthalene Nonane Octane 1,2,4-trimethylbenzene n-heptane n-hexane 3-methylpentane
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Full text of hazard classes and H-statements : see section 16

SECTION 4 First aid measures

4.1. Description of necessary first-aid measures

First-aid measures general	: If medical advice is needed, have product container or label at hand.
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. Give oxygen or artificial respiration if necessary.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Immediately rinse with water for a prolonged period while holding the eyelids wide open. Remove contact lenses, if present and easy to do. Continue rinsing. When in doubt or if symptoms are observed, get medical advice.
First-aid measures after ingestion	: If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting/risk of damage to lungs exceeds poisoning risk. Never give anything by mouth to an unconscious person. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects	: Causes damage to organs.
Symptoms/effects after inhalation	: Harmful if inhaled. May cause shortness of breath, tightness of the chest, a sore throat and cough. In high concentrations vapors cause anesthetic and narcotic effect.
Symptoms/effects after skin contact	: Harmful in contact with skin. Causes skin irritation. Redness. Itching. Swelling. Repeated dermal contact with material can lead to defatting of the skin. drying.
Symptoms/effects after eye contact	: Direct contact with the eyes is likely slightly irritating. Redness. Itching. Lacrimation. Blurred vision.
Symptoms/effects after ingestion	: Harmful if swallowed. Swallowing a small quantity of this material will result in serious health hazard. Ingestion may cause nausea, vomiting and diarrhea. Abdominal pain. Aspiration of the product into the lungs may cause very serious pneumonia.
Chronic symptoms	: Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment	: Treat symptomatically. Symptoms may be delayed. Keep under medical supervision for at least 48 hours.
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SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Water spray. Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical. Use extinguishing agent suitable for surrounding fire.
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Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard : Combustible liquid. Burning produces stinking and toxic fumes. In case of fire and/or explosion do not breathe fumes.

Explosion hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon dioxide. Carbon monoxide. Nitrogen oxides.

5.3. Special protective equipment and precautions for fire-fighters

Precautionary measures fire : Eliminate all ignition sources if safe to do so.

Firefighting instructions : Evacuate the danger area. Move containers from fire area if it can be done without personal risk. Fight fire from safe distance and protected location. Use water spray or fog for cooling exposed containers. Use extinguishing media appropriate for surrounding fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Do not enter fire area without proper protective equipment, including respiratory protection. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid contact with skin and eyes. Remove ignition sources. Use special care to avoid static electric charges.

For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Evacuate unnecessary personnel. Ventilate spillage area. Avoid breathing vapors. Do not get in eyes, on skin, or on clothing. Avoid contact with skin and eyes. Do not touch or walk on the spilled product. No action shall be taken without appropriate training or involving any personal risk. No flames, no sparks. Eliminate all sources of ignition.

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".

Emergency procedures : Evacuate unnecessary personnel.

Environmental precautions : Avoid release to the environment. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Notify authorities if product enters sewers or public waters.

6.2. Methods and materials for containment and cleaning up

For containment : Stop leak if safe to do so. Collect spillage. Do not touch or walk on the spilled product.

Methods for cleaning up : Caution : this product can cause the floor to be slippery. Move containers from spill area. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal. Do not absorb with saw-dust or any other combustible absorbent material. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13). Clean contaminated surfaces with an excess of water. Prevent entry to sewers and public waters. Never return unused material to original container.

Other information : Dispose of via an authorised person/ licensed waste disposal contractor or by other suitable waste treatment techniques.

For further information refer to section 13. For further information refer to section 8: "Exposure controls/personal protection".

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SECTION 7 Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : 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. Provide good ventilation in process area to prevent formation of vapor. Provide local exhaust or general room ventilation. Avoid breathing vapors. Avoid contact during pregnancy and while nursing. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid release to the environment. Keep only in original container. Empty containers retain product residue and can be hazardous. Do not re-use container for any purpose. Eliminate all ignition sources if safe to do so. Take precautionary measures against static discharge. Ground and bond container and receiving equipment. Use approved electrical and mechanical equipment in accordance with respective zone.
- Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including incompatibilities

- Storage conditions : Store in dry, cool, well-ventilated area. Keep away from food, drink and animal feed. Keep away from ignition sources. Do not store near heat sources or expose to high temperatures. Store in original container. Keep container closed when not in use. Containers which are opened should be properly resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Store in accordance with local, regional, national or international regulation. Proper grounding procedures to avoid static electricity should be followed.
- Storage area : Store in dry, cool, well-ventilated area.
- Incompatible products : Strong oxidizing agents.
- Incompatible materials : Direct sunlight. Heat sources. Ignition sources.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Fuels, diesel, No 2 (68476-34-6)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Diesel No. 2, as total hydrocarbons
ACGIH® TLV® TWA	100 mg/m³ (IFV - Inhalable fraction and vapor)
Remark (ACGIH®)	TLV® Basis: CNS Impair; Liver dam. Notations: Skin; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2025
Nonane (111-84-2)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Nonane
ACGIH® TLV® TWA	1048 mg/m³
	200 ppm
Remark (ACGIH®)	TLV® Basis: CNS impair
Regulatory reference	ACGIH 2025

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Nonane (111-84-2)	
USA - Cal/OSHA - Occupational Exposure Limits	
Local name	Nonane
Cal/OSHA PEL (OEL TWA)	1050 mg/m ³
	200 ppm
Regulatory reference	California Division of Occupational Safety and Health (Cal/OSHA) - Permissible Exposure Limit for Chemical Contaminants (Table AC-1)
Naphthalene (91-20-3)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Naphthalene
ACGIH® TLV® TWA	52 mg/m ³
	10 ppm
Remark (ACGIH®)	TLV® Basis: URT irr; Cataracts; Hemolytic anemia. Notations: Skin; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI
Regulatory reference	ACGIH 2025
USA - ACGIH - Biological Exposure Indices	
Local name	Naphthalene
BEI (BLV)	Parameter: 1-Naphthol + 2-Naphthol - Sampling time: End of shift - Notations: Nq, Ns
Regulatory reference	ACGIH 2025
USA - OSHA - Occupational Exposure Limits	
Local name	Naphthalene
OSHA PEL TWA	50 mg/m ³
	10 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
USA - Cal/OSHA - Occupational Exposure Limits	
Local name	Naphthalene
Cal/OSHA PEL (OEL TWA)	0.5 mg/m ³
	0.1 ppm
Remark (Cal/OSHA)	S - Skin notation and Protecting Clothing
Regulatory reference	California Division of Occupational Safety and Health (Cal/OSHA) - Permissible Exposure Limit for Chemical Contaminants (Table AC-1)
USA - NIOSH - Occupational Exposure Limits	
Local name	Naphthalene
NIOSH REL 10h TWA	10 ppm
NIOSH REL (STEL)	15 ppm
Regulatory reference (US-NIOSH)	OSHA Annotated Table Z-1 (NIOSH Pocket Guide to Chemical Hazards (NPG))
n-heptane (142-82-5)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Heptane, isomers (n-Heptane)

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n-heptane (142-82-5)	
ACGIH® TLV® TWA	200 ppm
ACGIH® TLV® STEL	400 ppm
Remark (ACGIH®)	TLV® Basis: URT irr; Lung dam; CNS impair; Ototoxicity. Notations: OTO (Ototoxicant)
Regulatory reference	ACGIH 2025
USA - OSHA - Occupational Exposure Limits	
Local name	Heptane (n-Heptane)
OSHA PEL TWA	2000 mg/m³
	500 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
USA - Cal/OSHA - Occupational Exposure Limits	
Local name	n-Heptane
Cal/OSHA PEL (OEL TWA)	1600 mg/m³
	400 ppm
Cal/OSHA STEL	2000 mg/m³
	500 ppm
Regulatory reference	California Division of Occupational Safety and Health (Cal/OSHA) - Permissible Exposure Limit for Chemical Contaminants (Table AC-1)
USA - NIOSH - Occupational Exposure Limits	
Local name	Heptane (n-Heptane)
NIOSH REL 10h TWA	85 ppm
NIOSH REL (STEL)	440 ppm [15-min]
Regulatory reference (US-NIOSH)	OSHA Annotated Table Z-1 (NIOSH Pocket Guide to Chemical Hazards (NPG))
n-hexane (110-54-3)	
USA - ACGIH - Occupational Exposure Limits	
Local name	n-Hexane
ACGIH® TLV® TWA	176 mg/m³
	50 ppm
Remark (ACGIH®)	TLV® Basis: CNS impair; Peripheral neuropathy; Eye & URT irr. Notations: Skin; BEI
Regulatory reference	ACGIH 2025
USA - ACGIH - Biological Exposure Indices	
Local name	n-Hexane
BEI (BLV)	0.5 mg/l Parameter: 2,5-Hexanedione - Medium: urine - Sampling time: End of shift
Regulatory reference	ACGIH 2025
USA - OSHA - Occupational Exposure Limits	
Local name	n-Hexane
OSHA PEL TWA	1800 mg/m³
	500 ppm

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n-hexane (110-54-3)	
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
USA - Cal/OSHA - Occupational Exposure Limits	
Local name	n-Hexane
Cal/OSHA PEL (OEL TWA)	180 mg/m ³
	50 ppm
Remark (Cal/OSHA)	S - Skin notation and Protecting Clothing
Regulatory reference	California Division of Occupational Safety and Health (Cal/OSHA) - Permissible Exposure Limit for Chemical Contaminants (Table AC-1)
USA - NIOSH - Occupational Exposure Limits	
Local name	n-Hexane
NIOSH REL 10h TWA	50 ppm
Regulatory reference (US-NIOSH)	OSHA Annotated Table Z-1 (NIOSH Pocket Guide to Chemical Hazards (NPG))
Octane (111-65-9)	
USA - ACGIH - Occupational Exposure Limits	
Local name	n-Octane
ACGIH® TLV® TWA	1401 mg/m ³
	300 ppm
Remark (ACGIH®)	TLV® Basis: URT irr
Regulatory reference	ACGIH 2025
USA - OSHA - Occupational Exposure Limits	
Local name	Octane
OSHA PEL TWA	2350 mg/m ³
	500 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
USA - Cal/OSHA - Occupational Exposure Limits	
Local name	Octane
Cal/OSHA PEL (OEL TWA)	1450 mg/m ³
	300 ppm
Cal/OSHA STEL	1800 mg/m ³
	375 ppm
Regulatory reference	California Division of Occupational Safety and Health (Cal/OSHA) - Permissible Exposure Limit for Chemical Contaminants (Table AC-1)
USA - NIOSH - Occupational Exposure Limits	
Local name	Octane
NIOSH REL 10h TWA	75 ppm
NIOSH REL (Ceiling)	385 ppm [15-min]
Regulatory reference (US-NIOSH)	OSHA Annotated Table Z-1 (NIOSH Pocket Guide to Chemical Hazards (NPG))

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Toluene (108-88-3)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Toluene
ACGIH® TLV® TWA	20 ppm
Remark (ACGIH®)	TLV® Basis: CNS, Hearing & Visual impair; Female repro system eff; Pregnancy loss. Notations: OTO (Ototoxicant); A4 (Not classifiable as a Human Carcinogen); BEI
Regulatory reference	ACGIH 2025
USA - ACGIH - Biological Exposure Indices	
Local name	Toluene
BEI (BLV)	0.3 mg/g Kreatinin Parameter: o-Cresol - Medium: urine - Sampling time: End of shift - Notations: B 0.02 mg/l Parameter: Toluene - Medium: blood - Sampling time: Prior to last shift of workweek 0.03 mg/l Parameter: Toluene - Medium: urine - Sampling time: End of shift
Regulatory reference	ACGIH 2025
USA - OSHA - Occupational Exposure Limits	
Local name	Toluene
OSHA PEL TWA	200 ppm
OSHA PEL (Ceiling)	300 ppm
Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift	500 ppm 10 mins.
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-2
USA - Cal/OSHA - Occupational Exposure Limits	
Local name	Toluene; toluol
Cal/OSHA PEL (OEL TWA)	37 mg/m³
	10 ppm
Cal/OSHA STEL	560 mg/m³
	150 ppm
Cal/OSHA C	500 ppm
Remark (Cal/OSHA)	S - Skin notation and Protecting Clothing
Regulatory reference	California Division of Occupational Safety and Health (Cal/OSHA) - Permissible Exposure Limit for Chemical Contaminants (Table AC-1)
USA - NIOSH - Occupational Exposure Limits	
Local name	Toluene
NIOSH REL 10h TWA	100 ppm
NIOSH REL (STEL)	150 ppm
Regulatory reference (US-NIOSH)	OSHA Annotated Table Z-2 (NIOSH Pocket Guide to Chemical Hazards (NPG))
3-methylpentane (96-14-0)	
USA - ACGIH - Occupational Exposure Limits	
Local name	3-Methyl pentane
ACGIH® TLV® TWA	200 ppm

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3-methylpentane (96-14-0)	
Remark (ACGIH®)	TLV® Basis: URT irr; lung dam. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2025
1,2,4-trimethylbenzene (95-63-6)	
USA - ACGIH - Occupational Exposure Limits	
Local name	1,2,4-Trimethyl benzene
ACGIH® TLV® TWA	10 ppm
Remark (ACGIH®)	TLV® Basis: CNS impair; Hematologic eff
Regulatory reference	ACGIH 2025
2-ethylhexan-1-ol (104-76-7)	
USA - ACGIH - Occupational Exposure Limits	
Local name	2-Ethyl-1-hexanol
ACGIH® TLV® TWA	5 ppm
Remark (ACGIH®)	TLV® Basis: URT & Eye irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2025
Ethylbenzene (100-41-4)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Ethyl benzene
ACGIH® TLV® TWA	20 ppm
Remark (ACGIH®)	TLV® Basis: URT & Eye irr; Kidney eff; Ototoxicity; CNS impair. Notations: OTO (Ototoxicant); A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI
Regulatory reference	ACGIH 2025
USA - ACGIH - Biological Exposure Indices	
Local name	Ethyl benzene
BEI (BLV)	0.15 g/g Kreatinin Parameter: Sum of mandelic acid and phenylglyoxylic acid - Medium: urine - Sampling time: End of shift - Notations: Ns
Regulatory reference	ACGIH 2025
USA - OSHA - Occupational Exposure Limits	
Local name	Ethyl benzene
OSHA PEL TWA	435 mg/m³ 100 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
USA - Cal/OSHA - Occupational Exposure Limits	
Local name	Ethylbenzene
Cal/OSHA PEL (OEL TWA)	22 mg/m³ 5 ppm
Cal/OSHA STEL	130 mg/m³

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Ethylbenzene (100-41-4)	
	30 ppm
Regulatory reference	California Division of Occupational Safety and Health (Cal/OSHA) - Permissible Exposure Limit for Chemical Contaminants (Table AC-1)
USA - NIOSH - Occupational Exposure Limits	
Local name	Ethyl benzene
NIOSH REL 10h TWA	100 ppm
NIOSH REL (STEL)	125 ppm
Regulatory reference (US-NIOSH)	OSHA Annotated Table Z-1 (NIOSH Pocket Guide to Chemical Hazards (NPG))
Monitoring methods	
Monitoring methods	Refer to all applicable national, international and local regulations or provisions.

8.2. Appropriate engineering controls

Appropriate engineering controls	: Avoid all unnecessary exposure. Handle in accordance with good industrial hygiene and safety procedures. Provide local exhaust or general room ventilation. Ensure exposure is below occupational exposure limits (where available). Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Environmental exposure controls	: Avoid release to the environment. Prevent entry to sewers and public waters. Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil.

8.3. Individual protection measures, such as personal protective equipment

Personal protective equipment:

Wear recommended personal protective equipment. Personal protective equipment should be chosen according to the NIOSH standards and in discussion with the supplier of the protective equipment.

Hand protection:
Chemical resistant gloves (according to NIOSH standard). Recommended materials: Viton. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Since the product consists of several substances, the durability of the glove material cannot be estimated and needs to be tested before use
Eye protection:
Even though no specific eye irritation data are available, wear eye protection appropriate to conditions of use when handling this material. Chemical goggles or safety glasses
Skin and body protection:
Skin protection appropriate to the conditions of use should be provided
Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment. An approved organic vapor respirator/supplied air or self-contained breathing apparatus must be used when vapor concentration exceeds applicable exposure limits. Recommended: Combined filter ABEK or AXBEK. All respirators must conform to specifications for efficiency and performance indicated by OSHA Standard 29 CFR 1910.134 and NIOSH Standards

SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Liquid
Color	: According to product specification
Odor	: Aromatic Hydrocarbon-like
Odor threshold	: No data available

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pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 160 °C (320 °F)
Flash point	: 62.7 °C (145 °F, closed cup)
Flammability (solid, gas)	: No data available
Vapor pressure	: > 1 (air=1)
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Density	: 0.916 g/cm³
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: < 20.5 mm²/s (40 °C, 104 °F)
Explosion limits	: Lower explosion limit: 4 vol % Upper explosion limit: 8 vol %
Particle characteristics	: No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10 Stability and reactivity

10.1. Reactivity

Combustible liquid. Heating may cause a fire or explosion.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Hazardous polymerization: Will not occur.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). Protect from sunlight. Overheating. Heat and ignition sources.

10.5. Incompatible materials

Strong oxidizing agents.

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 (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Harmful in contact with skin.
Acute toxicity (inhalation)	: Inhalation:vapor: Harmful if inhaled.

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ATE US (oral)	787.216 mg/kg body weight
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ATE US (dermal)	1774.194 mg/kg body weight
ATE US (vapors)	11.918 mg/l/4h
2-ethylhexyl nitrate (27247-96-7)	
LD50 oral rat	> 9640 mg/kg
LD50 dermal rabbit	> 4820 mg/kg
LC50 Inhalation - Rat (Vapors)	> 4.6 mg/l/4h
ATE US (oral)	500 mg/kg body weight
ATE US (dermal)	1100 mg/kg body weight
ATE US (gases)	4500 ppmV/4h
ATE US (vapors)	11 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h
Fuels, diesel, No 2 (68476-34-6)	
LC50 Inhalation - Rat (Vapors)	> 4.1 mg/l/4h
ATE US (gases)	4500 ppmV/4h
ATE US (vapors)	11 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h
Nonane (111-84-2)	
LD50 oral rat	> 5000 mg/kg
LC50 Inhalation - Rat [ppm]	3200 ppm/4h
ATE US (gases)	4500 ppmV/4h
ATE US (vapors)	11 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h
Naphthalene (91-20-3)	
LD50 oral rat	490 mg/kg
LD50 dermal rat	5000 mg/kg
LC50 Inhalation - Rat	> 340 mg/m³ (1 h)
ATE US (oral)	490 mg/kg body weight
ATE US (dermal)	5000 mg/kg body weight
n-heptane (142-82-5)	
LD50 oral rat	15000 mg/kg
LC50 Inhalation - Rat [ppm]	48000 ppm/4h
LC50 Inhalation - Rat (Vapors)	103 mg/l/4h
n-hexane (110-54-3)	
LD50 oral rat	15840 mg/kg
LC50 Inhalation - Rat (Vapors)	169.2 mg/l/4h

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Octane (111-65-9)	
LD50 oral rat	> 5000 mg/kg
LC50 Inhalation - Rat [ppm]	25260 ppm/4h
LC50 Inhalation - Rat (Vapors)	180 mg/l/4h
Toluene (108-88-3)	
LD50 oral rat	2600 mg/kg
LD50 dermal rabbit	14.1 ml/kg
LC50 Inhalation - Rat	8000 mg/l/4h
Fuels, diesel, C9-18-alkane branched and linear (1159170-26-9)	
ATE US (oral)	500 mg/kg body weight
Solvent naphtha (petroleum), heavy arom. (64742-94-5)	
LD50 oral rat	> 5000 mg/kg (OECD 401)
LD50 oral	3690 mg/kg
LD50 dermal	4100 mg/kg
LC50 Inhalation - Rat	4778 mg/l/4h (OECD 403)
ATE US (vapors)	4778 mg/l/4h
ATE US (dust, mist)	4778 mg/l/4h
1,2,4-trimethylbenzene (95-63-6)	
LD50 oral rat	5000 mg/kg
LD50 dermal rabbit	3160 mg/kg
LC50 Inhalation - Rat	18000 mg/m ³ (4 h)
ATE US (oral)	5000 mg/kg body weight
ATE US (dermal)	3160 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
2-ethylhexan-1-ol (104-76-7)	
LD50 oral rat	2040 mg/kg
LD50 dermal rat	> 3000 mg/kg
LC50 Inhalation - Rat (Vapors)	0.89 – 5.3 mg/l/4h
ATE US (oral)	2040 mg/kg body weight
ATE US (gases)	4500 ppmV/4h
ATE US (vapors)	0.89 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h
Ethylbenzene (100-41-4)	
LD50 oral rat	3500 mg/kg
LD50 dermal rabbit	> 5000 mg/kg

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Ethylbenzene (100-41-4)	
LC50 Inhalation - Rat	> 20 mg/l/4h
LC50 Inhalation - Rat [ppm]	4000 ppm
ATE US (gases)	4500 ppmV/4h
ATE US (vapors)	11 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer.
Naphthalene (91-20-3)	
IARC group	2B - Possibly carcinogenic to humans
National Toxicity Program (NTP) Status	Reasonably anticipated to be Human Carcinogen
Toluene (108-88-3)	
IARC group	3 - Not classifiable
Ethylbenzene (100-41-4)	
IARC group	2B - Possibly carcinogenic to humans
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
2-ethylhexyl nitrate (27247-96-7)	
NOAEL (animal/male, F0/P)	20 mg/kg (5 d)
NOAEL (animal/female, F0/P)	20 mg/kg (5 d)
NOAEL (animal/male, F1)	100 mg/kg (5 d)
NOAEL (animal/female, F1)	100 mg/kg (5 d)
STOT-single exposure	: Causes damage to organs.
Nonane (111-84-2)	
STOT-single exposure	May cause drowsiness or dizziness.
n-heptane (142-82-5)	
STOT-single exposure	May cause drowsiness or dizziness.
n-hexane (110-54-3)	
STOT-single exposure	May cause drowsiness or dizziness.
Octane (111-65-9)	
STOT-single exposure	May cause drowsiness or dizziness.
Toluene (108-88-3)	
STOT-single exposure	May cause drowsiness or dizziness. May cause respiratory irritation.
Fuels, diesel, C9-18-alkane branched and linear (1159170-26-9)	
STOT-single exposure	Causes damage to organs.

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3-methylpentane (96-14-0)	
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.
n-hexane (110-54-3)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Toluene (108-88-3)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Ethylbenzene (100-41-4)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: May be fatal if swallowed and enters airways.
Diesel Cetane Booster Fuel Supplement - VP Cetanium®	
Viscosity, kinematic	< 20.5 mm²/s (40 °C, 104 °F)
Symptoms/effects	: Causes damage to organs.
Symptoms/effects after inhalation	: Harmful if inhaled. May cause shortness of breath, tightness of the chest, a sore throat and cough. In high concentrations vapors cause anesthetic and narcotic effect.
Symptoms/effects after skin contact	: Harmful in contact with skin. Causes skin irritation. Redness. Itching. Swelling. Repeated dermal contact with material can lead to defatting of the skin. drying.
Symptoms/effects after eye contact	: Direct contact with the eyes is likely slightly irritating. Redness. Itching. Lacrimation. Blurred vision.
Symptoms/effects after ingestion	: Harmful if swallowed. Swallowing a small quantity of this material will result in serious health hazard. Ingestion may cause nausea, vomiting and diarrhea. Abdominal pain. Aspiration of the product into the lungs may cause very serious pneumonia.
Chronic symptoms	: Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.
Other information	: No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation.

SECTION 12 Ecological information

12.1. Ecotoxicity

Hazardous to the aquatic environment, short-term (acute)	: Toxic to aquatic life.
Hazardous to the aquatic environment, long-term (chronic)	: Toxic to aquatic life with long lasting effects.

2-ethylhexyl nitrate (27247-96-7)	
LC50 - Fish [1]	2 mg/l (96 h, Danio rerio)
EC50 - Crustacea [1]	12.6 mg/l (48 h, Daphnia sp., OECD 202)
EC50 - Other aquatic organisms [1]	1000 mg/l (3 h)
EC50 72h - Algae [1]	2.33 mg/l (72 h)
Fuels, diesel, No 2 (68476-34-6)	
LC50 - Fish [1]	65 mg/l (96 h, Oncorhynchus mykiss)
EC50 - Crustacea [1]	68 mg/l (48 h, Daphnia magna)
Naphthalene (91-20-3)	
LC50 - Fish [1]	1.6 mg/l (96 h, Oncorhynchus mykiss)

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Naphthalene (91-20-3)	
EC50 - Crustacea [1]	1.96 mg/l (48 h, Daphnia magna)
LC50 - Fish [2]	0.95 – 1.62 mg/l (96 h, Oncorhynchus gorbuscha))
EC50 - Crustacea [2]	2.35 mg/l (48 h, Palaemonetes pugio)
NOEC chronic fish	1.5 mg/l (60 d, Oreochromis mossambicus)
n-heptane (142-82-5)	
LC50 - Fish [1]	375 mg/l (96 h, Oreochromis mossambicus)
n-hexane (110-54-3)	
LC50 - Fish [1]	2.5 mg/l (96 h, Pimephales promelas)
Octane (111-65-9)	
EC50 - Crustacea [1]	0.38 mg/l (48 h, Daphnia magna)
Toluene (108-88-3)	
LC50 - Fish [1]	6.86 – 9.83 mg/l (96 h, Oncorhynchus gorbuscha)
EC50 - Crustacea [1]	5.46 – 9.83 mg/l (48 h, Daphnia magna)
Solvent naphtha (petroleum), heavy arom. (64742-94-5)	
LC50 - Fish [1]	3.6 mg/l (96 h, Oncorhynchus mykiss)
EC50 - Crustacea [1]	0.95 mg/l
EC50 72h - Algae [1]	1 – 3 mg/l (72 h)
1,2,4-trimethylbenzene (95-63-6)	
LC50 - Fish [1]	22.4 mg/l (96h, Tilapia zillii)
EC50 - Crustacea [1]	4910 µg/l (48h, Elasmopus pecteniscus)
Ethylbenzene (100-41-4)	
LC50 - Fish [1]	4.2 mg/l (96 h, Oncorhynchus mykiss)
EC50 - Crustacea [1]	2.93 mg/l (48 h, Daphnia magna)
EC50 - Other aquatic organisms [1]	1.81 mg/l
LC50 - Fish [2]	4.4 – 5.7 mg/l (96 h, Menidia menidia)
EC50 - Crustacea [2]	6.53 mg/l (48 h, Artemia sp.)
EC50 72h - Algae [1]	4.9 mg/l (72 h, Skeletonema costatum)
EC50 72h - Algae [2]	3.6 mg/l (72 h)
EC50 96h - Algae [1]	7.7 mg/l (96 h, Skeletonema costatum)

12.2. Persistence and degradability

Diesel Cetane Booster Fuel Supplement - VP Cetanium®	
Persistence and degradability	Not readily biodegradable.
2-ethylhexyl nitrate (27247-96-7)	
Persistence and degradability	Not rapidly degradable
Biodegradation	0 % (28 d)

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12.3. Bioaccumulative potential

Diesel Cetane Booster Fuel Supplement - VP Cetanium®

Bioaccumulative potential	No data available concerning bioaccumulation.
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2-ethylhexyl nitrate (27247-96-7)

BCF - Fish [1]	1332
Partition coefficient n-octanol/water (Log Pow)	5.24

Nonane (111-84-2)

BCF - Fish [1]	105
Partition coefficient n-octanol/water (Log Pow)	5.65

Naphthalene (91-20-3)

BCF - Fish [1]	> 100
Partition coefficient n-octanol/water (Log Pow)	3.3

n-heptane (142-82-5)

BCF - Fish [1]	552
Partition coefficient n-octanol/water (Log Pow)	4.66

n-hexane (110-54-3)

BCF - Fish [1]	501.187
Partition coefficient n-octanol/water (Log Pow)	4

Octane (111-65-9)

BCF - Fish [1]	198.7
Partition coefficient n-octanol/water (Log Pow)	5.18

Toluene (108-88-3)

Partition coefficient n-octanol/water (Log Kow)	2.73 (20 °C)
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Solvent naphtha (petroleum), heavy arom. (64742-94-5)

BCF - Fish [1]	< 100
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Ethylbenzene (100-41-4)

Partition coefficient n-octanol/water (Log Pow)	3.15
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12.4. Mobility in soil

Diesel Cetane Booster Fuel Supplement - VP Cetanium®

Ecology - soil	Floats on water. Adsorbs into the soil.
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2-ethylhexyl nitrate (27247-96-7)

Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.75
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12.5. Other adverse effects

Ozone	: Not classified
Other adverse effects	: No other effects known.
Fluorinated greenhouse gases	: No

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according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

SECTION 13 Disposal considerations

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Additional information	: Flammable vapors may accumulate in the container.
Ecological waste information	: Avoid release to the environment.

SECTION 14 Transport information

In accordance with DOT / TDG / IMDG / IATA

DOT	TDG	IMDG	IATA
14.1. UN number			
UN3082	UN3082	3082	3082
14.2. Proper Shipping Name			
Environmentally hazardous substances, liquid, n.o.s. (Fuels, diesel, No 2)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fuels, diesel, No 2)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fuels, diesel, No2)	Environmentally hazardous substance, liquid, n.o.s. (Fuels, diesel, No2)
14.3. Transport hazard class(es)			
9	9	9	9
			
14.4. Packing group			
III	III	III	III
14.5. Environmental hazards			
Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes
No supplementary information available			

14.6. Transport in bulk

Not applicable

14.7. Special precautions for user

DOT

UN-No. (DOT) : UN3082

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DOT Special Provisions (49 CFR 172.102)	: 8 - A hazardous substance that is not a hazardous waste may be shipped under the shipping description "Other regulated substances, liquid or solid, n.o.s.", as appropriate. In addition, for solid materials, special provision B54 applies. 146 - This description may be used for a material that poses a hazard to the environment but does not meet the definition for a hazardous waste or a hazardous substance, as defined in 171.8 of this subchapter, or any hazard class as defined in Part 173 of this subchapter, if it is designated as environmentally hazardous by the Competent Authority of the country of origin, transit or destination. 173 - An appropriate generic entry may be used for this material. 335 - Mixtures of solids that are not subject to this subchapter and environmentally hazardous liquids or solids may be classified as "Environmentally hazardous substances, solid, n.o.s.," UN3077 and may be transported under this entry, provided there is no free liquid visible at the time the material is loaded or at the time the packaging or transport unit is closed. Each transport unit must be leak-proof when used as bulk packaging. 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). T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3) 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. TP29 - A portable tank having a minimum test pressure of 1.5 bar (150.0 kPa) may be used provided the calculated test pressure is 1.5 bar or less based on the MAWP of the hazardous materials, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 155
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: No Limit
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: No Limit
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
TDG	
UN-No. (TDG)	: UN3082

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TDG Special Provisions	: 16 - (1) The technical name of at least one of the most dangerous substances that predominantly contributes to the danger or dangers posed by the dangerous goods must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(ii)(A). The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3). (2) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law for domestic transport or an international convention for international transport prohibits the disclosure of the technical name: (a) UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S; (b) UN1851, MEDICINE, LIQUID, TOXIC, N.O.S; (c) UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S; (d) UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S; or (e) UN3249, MEDICINE, SOLID, TOXIC, N.O.S. (3) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a small means of containment: (a) UN2814, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or (b) UN2900, INFECTIOUS SUBSTANCE, AFFECTING ANIMALS, 99 - (1) Mixtures of solids that are not dangerous goods and liquids or solids that are UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S, or UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S, may be offered for transport, handled or transported as UN3077 if there is no visible liquid when the dangerous goods are loaded into a means of containment and during transport. (2) These Regulations, except for Parts 1 and 2, do not apply to the offering for transport, handling or transport of less than 450 kg of UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S, or less than 450 L of UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S, on a road vehicle or a railway vehicle. The dangerous goods must be contained in one or more small means of containment designed, constructed, filled, closed, secured and maintained so that under normal conditions of transport, including handling, there will be no release of the dangerous goods that could endanger public safety.
Explosive Limit and Limited Quantity Index	: 5 L
Excepted quantities (TDG)	: E1
Emergency Response Guide (ERG) Number	: 171
IMDG	
Special provision (IMDG)	: 274, 335, 375, 969
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: LP01, P001
Packing provisions (IMDG)	: PP1
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1, TP29
EmS-No. (Fire)	: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage)	: S-F - SPILLAGE SCHEDULE Foxtrot - WATER-SOLUBLE MARINE POLLUTANTS
Stowage category (IMDG)	: A
IATA	
Special provision (IATA)	: A97, A158, A197, A215
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y964
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 964
PCA max net quantity (IATA)	: 450L
CAO packing instructions (IATA)	: 964
CAO max net quantity (IATA)	: 450L

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ERG code (IATA)

: 9L

SECTION 15 Regulatory information

15.1. Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Contains chemical(s) subject to TSCA 12b export notification if product is shipped outside the U.S

Nonane	CAS-No. 111-84-2	0.1 - 1%
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Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Naphthalene	CAS-No. 91-20-3	0.1 - 1%
n-hexane	CAS-No. 110-54-3	0.1 - 1%
Toluene	CAS-No. 108-88-3	0.1 - 1%
1,2,4-trimethylbenzene	CAS-No. 95-63-6	0.1 - 1%
Ethylbenzene	CAS-No. 100-41-4	%

Naphthalene (91-20-3)

Listed on EPA Hazardous Air Pollutant (HAPS)

Listed on EPA HAPs Chronic Dose Response Assessment List - Carcinogens

Listed on EPA HAPs Acute Dose Response Assessment List – Exposure limits

CERCLA RQ	100 lb
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n-hexane (110-54-3)

Listed on EPA Hazardous Air Pollutant (HAPS)

Listed on EPA HAPs Acute Dose Response Assessment List – Exposure limits

CERCLA RQ	5000 lb
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Toluene (108-88-3)

Listed on EPA Hazardous Air Pollutant (HAPS)

Listed on EPA HAPs Chronic Dose Response Assessment List - Carcinogens

Listed on EPA HAPs Acute Dose Response Assessment List – Exposure limits

CERCLA RQ	1000 lb
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Ethylbenzene (100-41-4)

Listed on EPA Hazardous Air Pollutant (HAPS)

Listed on EPA HAPs Chronic Dose Response Assessment List - Carcinogens

Listed on EPA HAPs Acute Dose Response Assessment List – Exposure limits

CERCLA RQ	1000 lb
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15.2. International regulations

CANADA

2-ethylhexyl nitrate (27247-96-7)

Listed on the Canadian DSL (Domestic Substances List)

Fuels, diesel, No 2 (68476-34-6)

Listed on the Canadian DSL (Domestic Substances List)

Nonane (111-84-2)

Listed on the Canadian DSL (Domestic Substances List)

Naphthalene (91-20-3)

Listed on the Canadian DSL (Domestic Substances List)

n-heptane (142-82-5)

Listed on the Canadian DSL (Domestic Substances List)

n-hexane (110-54-3)

Listed on the Canadian DSL (Domestic Substances List)

Octane (111-65-9)

Listed on the Canadian DSL (Domestic Substances List)

Toluene (108-88-3)

Listed on the Canadian DSL (Domestic Substances List)

Fuels, diesel, C9-18-alkane branched and linear (1159170-26-9)

Listed on the Canadian NDSL (Non-Domestic Substances List)

3-methylpentane (96-14-0)

Listed on the Canadian DSL (Domestic Substances List)

Solvent naphtha (petroleum), heavy arom. (64742-94-5)

Listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

2-ethylhexan-1-ol (104-76-7)

Listed on the Canadian DSL (Domestic Substances List)

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Ethylbenzene (100-41-4)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

Fuels, diesel, No 2 (68476-34-6)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Nonane (111-84-2)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Naphthalene (91-20-3)

Listed on IARC (International Agency for Research on Cancer)
Listed as carcinogen on NTP (National Toxicology Program)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on EPA HAPs Chronic Dose Response Assessment List - Carcinogens
Listed on EPA HAPs Acute Dose Response Assessment List – Exposure limits

n-heptane (142-82-5)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

n-hexane (110-54-3)

Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on EPA HAPs Acute Dose Response Assessment List – Exposure limits

Octane (111-65-9)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Toluene (108-88-3)

Listed on EPA HAPs Chronic Dose Response Assessment List - Carcinogens
Listed on EPA HAPs Acute Dose Response Assessment List – Exposure limits
Listed on INSQ (Mexican National Inventory of Chemical Substances)

3-methylpentane (96-14-0)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Solvent naphtha (petroleum), heavy arom. (64742-94-5)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

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

Listed on INSQ (Mexican National Inventory of Chemical Substances)

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2-ethylhexan-1-ol (104-76-7)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Ethylbenzene (100-41-4)

Listed on IARC (International Agency for Research on Cancer)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on EPA HAPs Chronic Dose Response Assessment List - Carcinogens

Listed on EPA HAPs Acute Dose Response Assessment List – Exposure limits

15.3. State regulations



WARNING:

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

SECTION 16 Other information

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

Revision date : 11/5/2025

Data sources : Supplier's safety documents. ECHA (European Chemicals Agency).

Training advice : Training staff on good practice.

Full text of hazard classes and H-statements

H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H227	Combustible liquid
H228	Flammable solid
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child
H370	Causes damage to organs.
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects

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Full text of hazard classes and H-statements	
H412	Harmful to aquatic life with long lasting effects

Abbreviations and acronyms	
ACGIH	American Conference of Government Industrial Hygienists
AIHA	American International Health Alliance
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CAS-No.	Chemical Abstract Service number
DOT	Department of Transport
DSL	Canada DSL (Domestic Substances List)
EC50	Median effective concentration
EC-No.	European Community number
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
N.O.S.	Not Otherwise Specified
NDSL	Canada NDSL (Non-Domestic Substances List)
NIOSH	National Institute for Occupational Safety and Health
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OEL	Occupational Exposure Limit
OSHA	Occupational Safety Health Administration
PPE	Personal protection equipment
SDS	Safety Data Sheet

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.