Cetane Power Booster

Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)
Issue date: 04/30/2025 Revision date: 03/04/2026 Supersedes: 12/10/2025 Version: 7.0

SECTION 1 Identification

1.1. GHS Product identifier

Product form	: Mixture
Product name	: Cetane Power Booster
Type of product	: Fuel additives
Part Number	: 21032

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 : Fuel additives

1.4. Supplier's details

Lucas Oil Products, Inc.
3199 Harrison Way NW
Corydon, IN 47112
USA
T 800-342-2512
sds@lucasoil.com - www.LucasOil.com

1.5. Emergency phone number

Emergency number : For Chemical Emergency Call ChemTel 24hr/day 7days/week
Within USA, Canada, Puerto Rico and US Virgin Islands: 1-800-255-3924
International: 1-813-248-0585
(collect calls accepted)

SECTION 2 Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS CA)

Flammable liquids, Category 4	H227	Combustible liquid.
Acute toxicity (oral), Category 4	H302	Harmful if swallowed.
Acute toxicity (inhalation:dust,mist), Category 4	H332	Harmful if inhaled.
Skin sensitization, Category 1	H317	May cause an allergic skin reaction.
Reproductive toxicity, Category 2	H361	Suspected of damaging fertility or the unborn child.
Hazardous to the aquatic environment, Acute Hazard, Category 1	H400	Very toxic to aquatic life.
Hazardous to the aquatic environment, Chronic Hazard, Category 1	H410	Very toxic to aquatic life with long lasting effects.

Full text of H-statements: see section 16

2.2. GHS label elements, including precautionary statements

GHS CA labelling

Hazard pictograms (GHS CA) :

Signal word (GHS CA) : Warning

Hazard statements (GHS CA)	:	H227 - Combustible liquid H302+H332 - Harmful if swallowed or if inhaled H317 - May cause an allergic skin reaction H361 - Suspected of damaging fertility or the unborn child H400 - Very toxic to aquatic life H410 - Very toxic to aquatic life with long lasting effects
Precautionary statements (GHS CA)	:	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. P261 - Avoid breathing dust, fume, gas, mist, vapours, spray. P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area. P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear protective gloves, protective clothing, eye protection, face protection, and hearing protection. P301+P312 - IF SWALLOWED: Call a POISON CENTER or a doctor if you feel unwell. P302+P352 - IF ON SKIN: Wash with plenty of water. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P308+P313 - IF exposed or concerned: Get medical advice or attention. P312 - Call a POISON CENTER or a doctor if you feel unwell. P321 - Specific treatment (see supplemental first aid instruction on this label). P330 - Rinse mouth. P333+P313 - If skin irritation or rash occurs: Get medical advice or attention. P362+P364 - Take off contaminated clothing and wash it before reuse. P370+P378 - In case of fire: Use appropriate media to extinguish. P391 - Collect spillage. P403 - Store in a well-ventilated place. P405 - Store locked up. P501 - Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
Distillates (petroleum), hydrotreated heavy paraffinic	Distillates (petroleum), hydrotreated heavy paraffinic distillates (petroleum), hydrotreated heavy paraffinic	CAS-No.: 64742-54-7	30 - 60*	Asp. Tox. 1, H304

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
2-Ethylhexyl nitrate	2-Ethylhexyl nitrate 2-EHN / 2-ethyl hexyl nitrate / 2-ethylhexyl nitrate / 3-nitro-oxymethylheptane / 3-nitroxymethylheptane / Cetane Improver / CI-0801 / Du Pont diesel additive 1000 / ECA 8478 / ethyl diesel ignition improver 3 / ethyl DII-3 / ethylhexyl nitrate / exchem GO-1 cetane improver / EXXON ECA 8478 / HiTec 4103 / HiTec 4103 fuel additive / isooctyl nitrate / NEH / nitric acid, 2-ethylhexyl ester / nitric acid, 2-ethylhexyl ester of / NITROCET 50 / nitronal / octel CI-0801 cetane number improver / octyl nitrate / procetane	CAS-No.: 27247-96-7	7 - 13*	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
Fatty acids, tall-oil	Tall oil, fatty acids acintol D 30RL pamak 4 / acintol FA 1 / acintol FA 2 / acintol FA 3 / bevacid 2 / crofatol P / disproportionafted tall oil fatty acid / emtall 729 / etol FA-X / FA 1 / hartall F 1 / hartall FA 1 / hartall FA 20 / L 1AS / L 5 / liqro W / neo-fat 42-12 / neo-fat 42-6 / neo-fat 42-70 / OULU 102 / pamak 4A / pamak I / pamolyn 125 / sylfat 94 / sylfat 96 / sylfat V 18 / talacyd D 50 / talacyd P 40 / talacyd P 50 / talacyd T 2 / tall fax 250 / tall oil acids / tall oil fatty acids / tall-oil, disproportionated / unitol AC / unitol ACD / unitol BKS / unitol DSR / unitol DSR 90 / unitol LFA / VALKE TOFA 2	CAS-No.: 61790-12-3	3 - 7*	Skin Sens. 1, H317
1-Propene, 2-methyl-, homopolymer, hydroformylation products, reaction products with ammonia	-	CAS-No.: 337367-30-3	< 100	Skin Irrit. 2, H315 Aquatic Chronic 3, H412
Distillates (petroleum), hydrotreated light	Distillates (petroleum), hydrotreated light distillates (petroleum), hydrotreated light / kerosine - unspecified	CAS-No.: 64742-47-8	1 - 5*	Asp. Tox. 1, H304

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
1-Hexanol, 2-ethyl-	2-Ethylhexanol 1-Hexanol, 2-ethyl- / 2-EH (=2-ethyl hexanol) / 2-EH alcohol / 2-ethyl 2-hexan-1-ol / 2-ethyl hexanol / 2-ethyl hexyl alcohol / 2-ethylhexan-1-ol / alcohol C8 / corexit 8814 / ethylhexanol / EXXAL 8 / FORMULA No 91270 / isooctanol (=2-ethyl-1-hexanol) / isooctyl alcohol (=2-ethyl-1-hexanol) / octyl alcohol (=2-ethyl-1-hexanol) / octyl alcohol(2-EH)(=2-ethyl-1-hexanol)	CAS-No.: 104-76-7	0.5 - 1.5*	Flam. Liq. 4, H227 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
Xylene	Xylene AMSCO / benzene, dimethyl- / byk 310 / dimethylbenzene, mixture of isomers / dimethylbenzol, mixture of isomers / formula No 00651 / mebon thinner type 2 / methyltoluene, mixture of isomers / mixed xylenes / paint / solvent xylene / violet 3 / xylene / xylene nitration grade ASTM D 843-80 / xylene, mixed isomers, pure / xylol / xylol, mixture of isomers	CAS-No.: 1330-20-7	0.5 - 1.5*	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 Asp. Tox. 1, H304

***Chemical name, CAS number and/or exact concentration have been withheld as CBI**

***Contains fixed concentration**

SECTION 4 First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Rinse mouth. Call a poison center or a doctor if you feel unwell.

First-aid measures general : IF exposed or concerned: Get medical advice/attention. Call a poison center or a doctor if you feel unwell.

Self protection of the first-aider : First aid workers will be equipped with suitable personal protective equipment.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after inhalation : Harmful if inhaled.

Symptoms/effects after skin contact : May cause an allergic skin reaction.

Symptoms/effects after eye contact : None under normal conditions.

Symptoms/effects after ingestion : Harmful if swallowed.

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

Other medical advice or treatment : Treat symptomatically.

SECTION 5 Fire-fighting measures

5.1. Suitable extinguishing media

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

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard : Combustible liquid.

Explosion hazard : No direct explosion hazard.

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective actions for fire-fighters

Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.

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

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.

Environmental precautions : Avoid release to the environment.

6.2. Methods and materials for containment and cleaning up

For containment : Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

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

For further information refer to section 13.

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep in a cool, well-ventilated place away from heat.

Storage conditions : Store in a well-ventilated place. Keep cool. Store locked up.

Packaging materials : Always store product in container of same material as original container.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Xylene (1330-20-7)	
Canada (Alberta) - Occupational Exposure Limits	
Local name	Xylene (o-,m-,p-isomers) (Dimethylbenzene)
OEL TWA	434 mg/m³
	100 ppm
OEL STEL	651 mg/m³
	150 ppm
Regulatory reference	Alberta Regulation 191/2021
Canada (Quebec) - Occupational Exposure Limits	
Local name	Xylene (o-, m-, p- isomers) (Dimethylbenzene)
VECD (OEL STEV)	651 mg/m³
	150 ppm
VEMP (OEL TWAEV)	434 mg/m³
	100 ppm
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
Canada (British Columbia) - Occupational Exposure Limits	
Local name	Xylene
OEL TWA	100 ppm
OEL STEL	150 ppm
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)

Xylene (1330-20-7)	
Canada (Manitoba) - Occupational Exposure Limits	
Local name	Xylene, mixed isomers (Dimethylbenzene)
OEL TWA	20 ppm
Notations and remarks	TLV® Basis: Eye & URT irr; CNS impair; Hematologic eff; Ototoxicity (p-xylene). Notations: OTO (Ototoxicant) (p isomer); A4 (Not classifiable as a Human Carcinogen); BEI
Regulatory reference	ACGIH 2025
Canada (New Brunswick) - Occupational Exposure Limits	
Local name	Xylene
OEL TWA	100 ppm
OEL STEL	150 ppm
Notations and remarks	URT & eye irr; CNS impair
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
Local name	Xylene, mixed isomers (Dimethylbenzene)
OEL TWA	20 ppm
Notations and remarks	TLV® Basis: Eye & URT irr; CNS impair; Hematologic eff; Ototoxicity (p-xylene). Notations: OTO (Ototoxicant) (p isomer); A4 (Not classifiable as a Human Carcinogen); BEI
Regulatory reference	ACGIH 2025
Canada (Nova Scotia) - Occupational Exposure Limits	
Local name	Xylene, mixed isomers (Dimethylbenzene)
OEL TWA	20 ppm
Notations and remarks	TLV® Basis: Eye & URT irr; CNS impair; Hematologic eff; Ototoxicity (p-xylene). Notations: OTO (Ototoxicant) (p isomer); A4 (Not classifiable as a Human Carcinogen); BEI
Regulatory reference	ACGIH 2025
Canada (Nunavut) - Occupational Exposure Limits	
Local name	Xylene (o, m-, p-isomers)
OEL TWA	100 ppm
OEL STEL	150 ppm
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)
Canada (Northwest Territories) - Occupational Exposure Limits	
Local name	Xylene (o, m-, p-isomers)
OEL TWA	100 ppm
OEL STEL	150 ppm
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-090-2024)
Canada (Ontario) - Occupational Exposure Limits	
Local name	Xylene (o, m & p isomers)
OEL TWAEV	100 ppm
	150 ppm

Xylene (1330-20-7)	
Regulatory reference	Occupational Health and Safety Act, R.S.O. 1990, c. O.1 - R.R.O. 1990, Reg. 833: Control of exposure to biological or chemical agents
Canada (Prince Edward Island) - Occupational Exposure Limits	
Local name	Xylene, mixed isomers (Dimethylbenzene)
OEL TWA	20 ppm
Notations and remarks	TLV® Basis: Eye & URT irr; CNS impair; Hematologic eff; Ototoxicity (p-xylene). Notations: OTO (Ototoxicant) (p isomer); A4 (Not classifiable as a Human Carcinogen); BEI
Regulatory reference	ACGIH 2025
Canada (Saskatchewan) - Occupational Exposure Limits	
Local name	Xylene (o-, m-, p-isomers)
OEL TWA	100 ppm
OEL STEL	150 ppm
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10

1-Hexanol, 2-ethyl- (104-76-7)	
Canada (Manitoba) - Occupational Exposure Limits	
Local name	2-Ethyl-1-hexanol
OEL TWA	5 ppm
Notations and remarks	TLV® Basis: URT irr & eye irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2024
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
Local name	2-Ethyl-1-hexanol
OEL TWA	5 ppm
Notations and remarks	TLV® Basis: URT irr & eye irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2024
Canada (Nova Scotia) - Occupational Exposure Limits	
Local name	2-Ethyl-1-hexanol
OEL TWA	5 ppm
Notations and remarks	TLV® Basis: URT irr & eye irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2024
Canada (Prince Edward Island) - Occupational Exposure Limits	
Local name	2-Ethyl-1-hexanol
OEL TWA	5 ppm
Notations and remarks	TLV® Basis: URT irr & eye irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2024

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Personal protective equipment:
Wear recommended personal protective equipment.

Hand protection:
Protective gloves

Eye protection:
Safety glasses

Skin and body protection:
Wear suitable protective clothing

Respiratory protection:
[In case of inadequate ventilation] wear respiratory protection.

Personal protective equipment symbol(s):

SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state : Liquid
Appearance : No data available
Colour : Mixture contains one or more component(s) which have the following colour(s):
Colourless to light yellow Colourless Pure substance: colourless Unpurified: light yellow Pure substance: white Unpurified: yellow to brown
Odour : There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure.
Mixture contains one or more component(s) which have the following odour:
Irritating/pungent odour Fruity odour Mild odour Petroleum-like odour Pleasant odour Aromatic odour Sweet odour Characteristic odour Stuffy odour Oil-like odour Tar odour
Odour threshold : No data available
pH : No data available
Relative evaporation rate (butylacetate=1) : No data available
Relative evaporation rate (ether=1) : No data available
Melting point : Not applicable
Freezing point : No data available
Boiling point : No data available
Flash point : 168 °F
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : Not applicable

Vapour pressure	:	No data available
Relative vapour density at 20°C	:	No data available
Relative density	:	0.9
Density	:	7.518 lb/gal
Solubility	:	No data available
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Viscosity, kinematic	:	21.48 mm²/s @ 40 ° C
Explosive limits	:	No data available
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

Reactivity	:	The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No dangerous reactions known under normal conditions of use.
Conditions to avoid	:	Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.
Incompatible materials	:	No additional information available
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hardening time:	:	No additional information available

SECTION 11 Toxicological information

11.1. Likely routes of exposure

Acute toxicity (oral)	:	Harmful if swallowed.
Acute toxicity (dermal)	:	Not classified
Acute toxicity (inhalation)	:	Inhalation:dust,mist: Harmful if inhaled.

Cetane Power Booster	
ATE CA (oral)	1670.192 mg/kg bodyweight
ATE CA (dust,mist)	4.733 mg/l/4h

2-Ethylhexyl nitrate (27247-96-7)	
LD50 oral rat	> 9600 mg/kg (Rat, Male / female, Experimental value, (maximum achievable concentration), Oral (repeated exposure), 14 day(s))
LD50 oral	9600 mg/kg
LD50 dermal	4800 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	14 mg/l/4h
ATE CA (oral)	500 mg/kg bodyweight
ATE CA (Dermal)	1100 mg/kg bodyweight
ATE CA (Gases)	4500 ppmv/4h
ATE CA (vapours)	11 mg/l/4h
ATE CA (dust,mist)	1.5 mg/l/4h

Xylene (1330-20-7)	
LD50 oral rat	> 4000 mg/kg bodyweight (Equivalent or similar to EU Method B.1, Rat, Female, Experimental value, Oral, 14 day(s))
LD50 oral	3500 mg/kg
LD50 dermal rabbit	> 4200 mg/kg bodyweight (4 h, Rabbit, Male, Experimental value, Dermal, 14 day(s))
LD50 dermal	1700 mg/kg
LC50 Inhalation - Rat	29.09 mg/l (Equivalent or similar to EU Method B.2, 4 h, Rat, Male, Experimental value, Inhalation (vapours), 14 day(s))
LC50 Inhalation - Rat [ppm]	5922 ppm
LC50 Inhalation - Rat (Vapours)	27.57 mg/l/4h
ATE CA (oral)	3500 mg/kg bodyweight
ATE CA (Dermal)	1700 mg/kg bodyweight
ATE CA (Gases)	5922 ppmv/4h
ATE CA (vapours)	11 mg/l/4h
ATE CA (dust,mist)	1.5 mg/l/4h

Fatty acids, tall-oil (61790-12-3)	
LD50 oral rat	> 3200 mg/kg (Rat, Oral)

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
LD50 dermal rabbit	> 5000 mg/kg Source: IUCLID

Distillates (petroleum), hydrotreated light (64742-47-8)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 798.1175 (Acute Oral Toxicity), Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method)
LD50 oral	15000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: EPA OTS 798.1100 (Acute Dermal Toxicity), Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 5.28 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), 95% CL: 0,42 -
LC50 Inhalation - Rat (Dust/Mist)	> 5.2 mg/l Source: IUCLID
ATE CA (oral)	15000 mg/kg bodyweight

1-Hexanol, 2-ethyl- (104-76-7)	
LD50 oral rat	2047 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male, Experimental value, Oral, 14 day(s))
LD50 oral	2049 mg/kg
LD50 dermal rat	> 3000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
LD50 dermal rabbit	1970 mg/kg Source: NLM,THOMSON
LD50 dermal	3000 mg/kg
LC50 Inhalation - Rat	0.89 – 5.3 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (mixture of vapour and aerosol), 7 day(s))
LC50 Inhalation - Rat (Vapours)	4.9 mg/l/4h

1-Hexanol, 2-ethyl- (104-76-7)	
ATE CA (oral)	2047 mg/kg bodyweight
ATE CA (Dermal)	1970 mg/kg bodyweight
ATE CA (Gases)	4500 ppmv/4h
ATE CA (vapours)	4.9 mg/l/4h
ATE CA (dust,mist)	1.5 mg/l/4h

Skin corrosion/irritation : Not classified

2-Ethylhexyl nitrate (27247-96-7)	
pH	No data available in the literature

Xylene (1330-20-7)	
pH	No data available in the literature

1-Hexanol, 2-ethyl- (104-76-7)	
pH	7 (0.1 %)

Serious eye damage/irritation : Not classified

2-Ethylhexyl nitrate (27247-96-7)	
pH	No data available in the literature

Xylene (1330-20-7)	
pH	No data available in the literature

1-Hexanol, 2-ethyl- (104-76-7)	
pH	7 (0.1 %)

Respiratory or skin sensitization : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

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

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

Distillates (petroleum), hydrotreated light (64742-47-8)	
NOAEL (animal/male, F0/P)	≥ 3000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 415 [One-Generation Reproduction Toxicity Study (before 9 October 2017)]

STOT-single exposure : Not classified

Xylene (1330-20-7)	
STOT-single exposure	May cause drowsiness or dizziness.

1-Hexanol, 2-ethyl- (104-76-7)	
STOT-single exposure	May cause respiratory irritation.

STOT-repeated exposure : Not classified

2-Ethylhexyl nitrate (27247-96-7)	
NOAEL (dermal, rat/rabbit, 90 days)	500 mg/kg bodyweight Animal: rabbit, Guideline: EPA OPP 82-2 (Repeated Dose Dermal Toxicity -21/28 Days)

Xylene (1330-20-7)	
LOAEL (oral, rat, 90 days)	150 mg/kg bw/day
NOAEC (inhalation, rat, gas, 90 days)	> 810 ppm

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	> 0.98 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study)

Distillates (petroleum), hydrotreated light (64742-47-8)	
NOAEL (oral, rat, 90 days)	750 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (dermal, rat/rabbit, 90 days)	≥ 495 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)

1-Hexanol, 2-ethyl- (104-76-7)	
NOAEL (oral, rat, 90 days)	250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEC (inhalation, rat, gas, 90 days)	120 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)

Aspiration hazard : Not classified.

Cetane Power Booster	
Viscosity, kinematic	21.48 mm²/s @ 40 ° C

2-Ethylhexyl nitrate (27247-96-7)	
Viscosity, kinematic	1.3 mm²/s (20 °C)

Xylene (1330-20-7)	
Viscosity, kinematic	0.74 mm²/s (20 °C)

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
Viscosity, kinematic	18 mm²/s
Hydrocarbon	Yes
Aliphatic, alicyclic or aromatic hydrocarbon	Yes

1-Hexanol, 2-ethyl- (104-76-7)	
Viscosity, kinematic	No data available in the literature

Symptoms/effects after inhalation : Harmful if inhaled.
Symptoms/effects after skin contact : May cause an allergic skin reaction.
Symptoms/effects after eye contact : None under normal conditions.
Symptoms/effects after ingestion : Harmful if swallowed.

SECTION 12 Ecological information

12.1. Toxicity

Ecology - general : Very toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short–term (acute) : Very toxic to aquatic life.

Hazardous to the aquatic environment, long–term (chronic) : Very toxic to aquatic life with long lasting effects.

2-Ethylhexyl nitrate (27247-96-7)	
LC50 - Fish [1]	2 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value, GLP)
EC50 - Crustacea [1]	> 12.6 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
ErC50 algae	3.22 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 96h - Algae [1]	1.111 mg/l Source: ECOSAR

Xylene (1330-20-7)	
LC50 - Fish [1]	2.6 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static renewal, Fresh water, Read-across, Lethal)
EC50 - Crustacea [1]	> 3.4 mg/l Test organisms (species): Ceriodaphnia dubia
ErC50 algae	4.4 mg/l (OECD 201: Alga, Growth Inhibition Test, 73 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)
NOEC chronic fish	> 1.3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '56 d'
LOEC (chronic)	3.16 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

Fatty acids, tall-oil (61790-12-3)	
LC50 - Fish [1]	≥ 1000 mg/l (96 h, Pisces, Semi-static system)
EC50 - Crustacea [1]	≥ 1000 mg/l (48 h, Daphnia magna)
EC50 72h - Algae [1]	≥ 1000 mg/l (Selenastrum capricornutum)

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
LC50 - Fish [1]	> 5000 mg/l
EC50 - Crustacea [1]	> 1000 mg/l Source: IUCLID
EC50 96h - Algae [1]	> 1000 mg/l Source: IUCLID

1-Hexanol, 2-ethyl- (104-76-7)	
LC50 - Fish [1]	17.1 mg/l (EU Method C.1, 96 h, Leuciscus idus, Flow-through system, Fresh water, Experimental value, GLP)
LC50 - Fish [2]	28.2 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	39 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
ErC50 algae	16.6 mg/l (EU Method C.3, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, GLP)
EC50 72h - Algae [1]	11.5 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	16.6 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

12.2. Persistence and degradability

Cetane Power Booster	
Persistence and degradability	Not rapidly degradable

2-Ethylhexyl nitrate (27247-96-7)	
Persistence and degradability	Not readily biodegradable in water.

Xylene (1330-20-7)	
Persistence and degradability	Biodegradable in the soil, Readily biodegradable in water.

Fatty acids, tall-oil (61790-12-3)	
Persistence and degradability	Contains readily biodegradable component(s).

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
Persistence and degradability	Not rapidly degradable

Distillates (petroleum), hydrotreated light (64742-47-8)	
Persistence and degradability	Not rapidly degradable

1-Hexanol, 2-ethyl- (104-76-7)	
Persistence and degradability	Biodegradable in the soil, Readily biodegradable in water.

1-Propene, 2-methyl-, homopolymer, hydroformylation products, reaction products with ammonia (337367-30-3)	
Persistence and degradability	Not rapidly degradable

12.3. Bioaccumulative potential

2-Ethylhexyl nitrate (27247-96-7)	
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).
BCF - Fish [1]	1332 l/kg (OECD 305: Bioconcentration: Flow-Through Fish Test, Pisces, QSAR)
Partition coefficient n-octanol/water (Log Pow)	5.24 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 40 °C)

Xylene (1330-20-7)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
BCF - Fish [1]	7.2 – 26 (56 day(s), Oncorhynchus mykiss, Flow-through system, Fresh water, Read-across)
Partition coefficient n-octanol/water (Log Pow)	3.2 (Read-across, 20 °C)

Fatty acids, tall-oil (61790-12-3)	
Partition coefficient n-octanol/water (Log Pow)	4.89 – 5.98

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
Partition coefficient n-octanol/water (Log Pow)	3.9 – 6 Source: IUCLID

Distillates (petroleum), hydrotreated light (64742-47-8)	
Partition coefficient n-octanol/water (Log Pow)	3.3 – 6 Source: IUCLID

1-Hexanol, 2-ethyl- (104-76-7)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

1-Hexanol, 2-ethyl- (104-76-7)	
Partition coefficient n-octanol/water (Log Pow)	2.9 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)

12.4. Mobility in soil

2-Ethylhexyl nitrate (27247-96-7)	
Surface tension	No data available in the literature
Ecology - soil	Low potential for mobility in soil.
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.75 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)

Xylene (1330-20-7)	
Surface tension	28.01 – 29.76 mN/m (25 °C)
Ecology - soil	Low potential for adsorption in soil. May be harmful to plant growth, blooming and fruit formation.
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.7 (log Koc, Equivalent or similar to OECD 121, Read-across)

1-Hexanol, 2-ethyl- (104-76-7)	
Surface tension	47 mN/m (20 °C, 0.81 g/l)
Ecology - soil	Highly mobile in soil.
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.5475 – 2.1177 (log Koc, SRC PCKOCWIN v2.0, Calculated value)

12.5. Other adverse effects

Ozone : Not classified

Fluorinated greenhouse gases : No

SECTION 13 Disposal considerations

Regional waste regulation : Disposal must be done according to official regulations.
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations : Disposal must be done according to official regulations.
Product/Packaging disposal recommendations : Disposal must be done according to official regulations.
Additional information : Do not re-use empty containers.
Ecological waste information : The waste of the product should be considered as hazardous as the product itself, with the likelihood of impacting the environment in the same way. Consider the handling and disposal of the waste as defined by the product itself.

SECTION 14 Transport information

In accordance with TDG / DOT / IMDG / IATA

TDG	DOT	IMDG	IATA
14.1. UN Number			
UN3082	NA1993	UN3082	UN3082

TDG	DOT	IMDG	IATA
14.2. UN Proper Shipping Name			
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-Ethylhexyl nitrate)	Combustible liquid, n.o.s.(Petroleum Distillates) (2-Ethylhexyl nitrate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-Ethylhexyl nitrate)	Environmentally hazardous substance, liquid, n.o.s. (2-Ethylhexyl nitrate)
Transport document description			
UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-Ethylhexyl nitrate), 9, III	NA1993 Combustible liquid, n.o.s.(Petroleum Distillates) (2-Ethylhexyl nitrate), Comb Liq, III	UN UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-Ethylhexyl nitrate), 9, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS	UN UN3082 Environmentally hazardous substance, liquid, n.o.s. (2-Ethylhexyl nitrate), 9, III, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)			
9	Combustible liquid	9	9
			
14.4. Packing group, if applicable			
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. Special precautions for user

TDG

UN-No. (TDG) : UN3082

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

DOT

UN-No. (DOT)	:	NA1993
DOT Special Provisions (49 CFR 172.102)	:	148 - Except for transportation by aircraft, when transported as a limited quantity or a consumer commodity, the maximum net capacity specified in §173.150(b)(2) of this subchapter for inner packagings may be increased to 5 L (1.3 gallons). IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T1 - 1.5 178.274(d)(2) Normal..... 178.275(d)(2) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / (1 + a (tr - tf)) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.
DOT Packaging Exceptions (49 CFR 173.xxx)	:	150
DOT 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)	:	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.

IMDG

Special provisions (IMDG)	:	274, 335, 375, 969
Limited quantities (IMDG)	:	5 L
Excepted quantities (IMDG)	:	E1
Packing instructions (IMDG)	:	LP01, P001
Special 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

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
Special provisions (IATA)	:	A97, A158, A197, A215
ERG code (IATA)	:	9L

14.7. Transport in bulk according to Annex II of MARPOL 73/78[9] and the IBC Code[10]

Not applicable

SECTION 15 Regulatory information

2-Ethylhexyl nitrate (27247-96-7)

Listed on the Canadian DSL (Domestic Substances List)

Xylene (1330-20-7)

Listed on the Canadian DSL (Domestic Substances List)

Fatty acids, tall-oil (61790-12-3)

Listed on the Canadian DSL (Domestic Substances List)

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

Listed on the Canadian DSL (Domestic Substances List)

Distillates (petroleum), hydrotreated light (64742-47-8)

Listed on the Canadian DSL (Domestic Substances List)

1-Hexanol, 2-ethyl- (104-76-7)

Listed on the Canadian DSL (Domestic Substances List)

1-Propene, 2-methyl-, homopolymer, hydroformylation products, reaction products with ammonia (337367-30-3)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

Cetane Power Booster

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

2-Ethylhexyl nitrate (27247-96-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Xylene (1330-20-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on INSQ (Mexican National Inventory of Chemical Substances)

Fatty acids, tall-oil (61790-12-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on INSQ (Mexican National Inventory of Chemical Substances)

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on INSQ (Mexican National Inventory of Chemical Substances)

Distillates (petroleum), hydrotreated light (64742-47-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on INSQ (Mexican National Inventory of Chemical Substances)

1-Hexanol, 2-ethyl- (104-76-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on INSQ (Mexican National Inventory of Chemical Substances)

1-Propene, 2-methyl-, homopolymer, hydroformylation products, reaction products with ammonia (337367-30-3)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

SECTION 16 Other Information

Issue date	:	04/30/2025
Revision date	:	03/04/2026
Supersedes	:	12/10/2025

Full text of hazard classes and H-statements:

H226	Flammable liquid and vapour
H227	Combustible liquid
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways

Full text of hazard classes and H-statements:	
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H361	Suspected of damaging fertility or the unborn child
H400	Very toxic to aquatic life
H402	Harmful to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

Safety Data Sheet (SDS), Canada

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.