

SECTION 1 Identification

1.1. Product identifier

Product form : Mixture
Product name : Flex Fuel

1.2. Other means of identification

Synonyms : Regular Unleaded Gasoline / Premium Unleaded Gasoline / Unleaded Gasoline / Gasoline with Ethanol / Petrol / Motor Fuel / E85

1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Fuels

1.4. Supplier's details

Distributor

Northville Industries
225 Broadhollow Road
Suite 212W
New York, 11747
USA
T (631) 293-4700

1.5. Emergency phone number

Emergency number : CHEMTREC 1-800-424-9300

SECTION 2 Hazard Identification

2.1. Classification of the substance or mixture

GHS US classification

Flammable liquid, Category 2	H225	Highly flammable liquid and vapor .
Skin corrosion/irritation, Category 2	H315	Causes skin irritation .
Serious eye damage/eye irritation, Category 2	H319	Causes serious eye irritation .
Germ cell mutagenicity, Category 1B	H340	May cause genetic defects.
Carcinogenicity, Category 1A	H350	May cause cancer.
Reproductive toxicity, Category 2	H361	Suspected of damaging fertility or the unborn child .
Specific target organ toxicity – Single exposure, Category 3, Narcosis	H336	May cause drowsiness or dizziness .
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	H335	May cause respiratory irritation .
Specific target organ toxicity — Repeated exposure, Category 1	H372	Causes 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

Flex Fuel

Safety Data Sheet

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

2.2. Label elements

GHS US labeling

Hazard pictograms (GHS US)



Signal word (GHS US)

: Danger

Hazard statements (GHS US)

: H225 - Highly flammable liquid and vapor .
H304 - May be fatal if swallowed and enters airways .
H315 - Causes skin irritation .
H319 - Causes serious eye irritation .
H335 - May cause respiratory irritation .
H336 - May cause drowsiness or dizziness .
H340 - May cause genetic defects.
H350 - May cause cancer.
H361 - Suspected of damaging fertility or the unborn child .
H372 - Causes 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.
P233 - Keep container tightly closed.
P240 - Ground/Bond container and receiving equipment.
P241 - Use explosion-proof electrical, ventilating, lighting equipment.
P242 - Use non-sparking tools.
P243 - Take action to prevent static discharges.
P260 - Do not breathe dust, fume, gas, mist, vapors, 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.
P273 - Avoid release to the environment.
P280 - Wear protective gloves.
P301+P310 - If swallowed: Immediately call a poison center or doctor.
P302+P352 - If on skin: Wash with plenty of water.
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - If exposed or concerned: Get medical advice/attention.
P312 - Call a poison center or doctor if you feel unwell.
P314 - Get medical advice or attention if you feel unwell.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P331 - Do NOT induce vomiting.
P332+P313 - If skin irritation occurs: Get medical advice or attention.
P337+P313 - If eye irritation persists: 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+P233 - Store in a well-ventilated place. Keep container tightly closed.
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 - Dispose of contents and container to a hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Flex Fuel

Safety Data Sheet

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

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

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	Conc.	GHS US classification
Ethanol	CAS-No.: 64-17-5	≥ 50	Flam. Liq. 2, H225 Eye Irrit. 2A, H319
Gasoline	CAS-No.: 86290-81-5	≥ 15 – < 50	Flam. Liq. 1, H224 Skin Irrit. 2, H315 Muta. 1B, H340 Carc. 1B, H350 Repr. 2, H361 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Toluene	CAS-No.: 108-88-3	≥ 0.1 – < 25	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304
Xylene	CAS-No.: 1330-20-7	≥ 0.1 – < 15	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304
cumene	CAS-No.: 98-82-8	≥ 0.1 – < 10	Flam. Liq. 3, H226 Carc. 1B, H350 STOT SE 3, H335 Asp. Tox. 1, H304

Flex Fuel

Safety Data Sheet

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

Name	Product identifier	Conc.	GHS US classification
Benzene	CAS-No.: 71-43-2	$\geq 0.1 - < 3$	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Muta. 1B, H340 Carc. 1A, H350 STOT RE 1, H372 Asp. Tox. 1, H304
n-hexane	CAS-No.: 110-54-3	$\geq 0.1 - < 3$	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 1, H372 Asp. Tox. 1, H304
Ethylbenzene	CAS-No.: 100-41-4	$\geq 0.1 - < 3$	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation:vapour), H332 Carc. 2, H351 STOT RE 2, H373 Asp. Tox. 1, H304
Benzene, trimethyl-	CAS-No.: 25551-13-7	$\geq 0.1 - < 3$	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319
1,2,4-trimethylbenzene	CAS-No.: 95-63-6	$\geq 0.1 - < 3$	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
naphthalene	CAS-No.: 91-20-3	$\geq 0.1 - < 1$	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

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	: Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor/physician if you feel unwell.
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Do not induce vomiting. Call a physician immediately.
Personal protection for first-aid responders.	: First aid workers will be equipped with suitable personal protective equipment.

Flex Fuel

Safety Data Sheet

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

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects	: May cause drowsiness or dizziness.
Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Eye irritation.
Symptoms/effects after ingestion	: Risk of lung edema.

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

Other medical advice or treatment	: Treat symptomatically.
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SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) 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	: Highly flammable liquid and vapor.
Explosion hazard	: No direct explosion hazard.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

5.3. Special protective equipment and precautions 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.
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For non-emergency personnel

Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: No open flames, no sparks, and no smoking. Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe dust/fume/gas/mist/vapors/spray.

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. Stop leak if safe to do so.
Environmental precautions	: Avoid release to the environment. Notify authorities if product enters sewers or public waters.

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, if possible without risk.
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.

Flex Fuel

Safety Data Sheet

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

For further information refer to section 13.

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.
Hygiene measures	: Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
Additional hazards when processed	: Not expected to present a significant hazard under anticipated conditions of normal use.

7.2. Conditions for safe storage, including incompatibilities

Technical measures	: Ground/bond container and receiving equipment.
Storage conditions	: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.
Packaging materials	: Always store product in container of same material as original container.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

naphthalene (91-20-3)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Naphthalene
ACGIH® TLV® TWA	52 mg/m³
	10 ppm
Remark (ACGIH®)	TLV® Basis: URT irr; Cataracts; Hemolytic anemia. Notations: Skin; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI
ACGIH® chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans, Skin - potential significant contribution to overall exposure by the cutaneous route
Regulatory reference	ACGIH 2025
USA - ACGIH - Biological Exposure Indices	
Local name	Naphthalene
BEI (BLV)	Parameter: 1-Naphthol with hydrolysis plus 2-Naphthol with hydrolysis - Sampling time: end of shift (nonquantitative, nonspecific)
Regulatory reference	ACGIH 2025
USA - OSHA - Occupational Exposure Limits	
Local name	Naphthalene

Flex Fuel

Safety Data Sheet

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

naphthalene (91-20-3)	
OSHA PEL TWA	50 mg/m ³
	10 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
USA - IDLH - Occupational Exposure Limits	
IDLH	250 ppm
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL (TWA)	50 mg/m ³
	10 ppm
NIOSH REL (STEL)	75 mg/m ³
	15 ppm
Benzene (71-43-2)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Benzene
ACGIH® TLV® TWA	0.02 ppm
Remark (ACGIH®)	TLV® Basis: Myelodysplastic syndrome; acute myeloid leukemia; leukemia; hematologic eff; chromosomal dam. Notations: Skin; A1 (Confirmed Human Carcinogen); BEI
ACGIH® chemical category	Confirmed Human Carcinogen, Skin - potential significant contribution to overall exposure by the cutaneous route
Regulatory reference	ACGIH 2025
USA - ACGIH - Biological Exposure Indices	
Local name	Benzene
BEI (BLV)	25 µg/g Kreatinin Parameter: S-Phenylmercapturic acid - Medium: urine - Sampling time: end of shift (background) 500 µg/g Kreatinin Parameter: t,t-Muconic acid - Medium: urine - Sampling time: end of shift (background)
Regulatory reference	ACGIH 2025
USA - OSHA - Occupational Exposure Limits	
Local name	Benzene
OSHA PEL TWA	10 ppm
OSHA PEL STEL	5 ppm (see 29 CFR 1910.1028)
OSHA PEL (Ceiling)	25 ppm
Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift	50 ppm 10 mins.
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-2
USA - IDLH - Occupational Exposure Limits	
IDLH	500 ppm
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL (TWA)	0.1 ppm
NIOSH REL (STEL)	1 ppm

Flex Fuel

Safety Data Sheet

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

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
ACGIH® chemical category	Not Classifiable as a Human Carcinogen
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
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
ACGIH® chemical category	Skin - potential significant contribution to overall exposure by the cutaneous route
Regulatory reference	ACGIH 2025
USA - ACGIH - Biological Exposure Indices	
Local name	n-Hexane
BEI (BLV)	0.5 mg/l Parameter: 2,5-Hexanedione without hydrolysis - 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
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

Flex Fuel

Safety Data Sheet

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

n-hexane (110-54-3)	
USA - IDLH - Occupational Exposure Limits	
IDLH	1100 ppm (10% LEL)
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL (TWA)	180 mg/m ³
	50 ppm
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
ACGIH® chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
Regulatory reference	ACGIH 2025
USA - ACGIH - Biological Exposure Indices	
Local name	Ethyl benzene
BEI (BLV)	150 mg/g Kreatinin Parameter: Sum of mandelic acid and phenylglyoxylic acid - Medium: urine - Sampling time: end of shift (nonspecific)
Regulatory reference	ACGIH 2025
USA - OSHA - Occupational Exposure Limits	
Local name	Ethyl benzene
OSHA PEL TWA	435 mg/m ³
	100 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
USA - IDLH - Occupational Exposure Limits	
IDLH	800 ppm (10% LEL)
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL (TWA)	435 mg/m ³
	100 ppm
NIOSH REL (STEL)	545 mg/m ³
	125 ppm
Gasoline (86290-81-5)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Gasoline
ACGIH® TLV® TWA	890 mg/m ³
	300 ppm
ACGIH® TLV® STEL	1480 mg/m ³
	500 ppm

Flex Fuel

Safety Data Sheet

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

Gasoline (86290-81-5)	
Remark (ACGIH®)	TLV® Basis: URT & eye irr; CNS impair. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
ACGIH® chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
Regulatory reference	ACGIH 2025
Xylene (1330-20-7)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Xylene, mixed isomers (Dimethylbenzene)
ACGIH® TLV® TWA	20 ppm
Remark (ACGIH®)	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
ACGIH® chemical category	Not Classifiable as a Human Carcinogen
Regulatory reference	ACGIH 2025
USA - ACGIH - Biological Exposure Indices	
Local name	Xylene, all isomers (Dimethylbenzene)
BEI (BLV)	0.3 g/g Kreatinin Parameter: total of all isomers of Methylhippuric acids - Medium: urine - Sampling time: end of shift (technical or commercial grades)
Remark	Commercial or technical grade xylenes consist of mixtures of isomers and significant amounts of ethyl benzene as indicated under "Properties." Because ethyl benzene is known to reduce the metabolism of xylenes to methylhippuric acids, the BEI applies to technical or commercial grades of xylenes only. The determinants refer to the total of all isomers of methylhippuric acids
Regulatory reference	ACGIH 2025
USA - OSHA - Occupational Exposure Limits	
Local name	Xylenes (o-, m-, p-isomers)
OSHA PEL TWA	435 mg/m³
	100 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
Benzene, trimethyl- (25551-13-7)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Trimethyl benzene, mixed isomers
ACGIH® TLV® TWA	10 ppm
Remark (ACGIH®)	TLV® Basis: CNS impair; Hematologic eff
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 (Trimethylbenzene, isomers)
Remark (ACGIH®)	TLV® Basis: CNS impair; Hematologic eff
ACGIH® chemical category	Not Classifiable as a Human Carcinogen

Flex Fuel

Safety Data Sheet

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

1,2,4-trimethylbenzene (95-63-6)	
Regulatory reference	ACGIH 2025
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL (TWA)	125 mg/m ³
	25 ppm
cumene (98-82-8)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Cumene
ACGIH® TLV® TWA	25 mg/m ³
	5 ppm
Remark (ACGIH®)	TLV® Basis: URT adenoma; neurological eff. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
ACGIH® chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
Regulatory reference	ACGIH 2025
USA - OSHA - Occupational Exposure Limits	
Local name	Cumene
OSHA PEL TWA	245 mg/m ³
	50 ppm
Limit value category (OSHA)	prevent or reduce skin absorption
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
USA - IDLH - Occupational Exposure Limits	
IDLH	900 ppm (10% LEL)
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL (TWA)	245 mg/m ³
	50 ppm
US-NIOSH chemical category	Potential for dermal absorption
Ethanol (64-17-5)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Ethanol
ACGIH® TLV® STEL	1880 mg/m ³
	1000 ppm
Remark (ACGIH®)	TLV® Basis: URT irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2025
USA - OSHA - Occupational Exposure Limits	
Local name	Ethyl alcohol (Ethanol)
OSHA PEL TWA	1900 mg/m ³
	1000 ppm

Flex Fuel

Safety Data Sheet

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

Ethanol (64-17-5)	
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
USA - Cal/OSHA - Occupational Exposure Limits	
Local name	Ethyl alcohol; ethanol
Cal/OSHA PEL (OEL TWA)	1900 mg/m ³
	1000 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 alcohol (Ethanol)
NIOSH REL 10h TWA	1000 ppm
Regulatory reference (US-NIOSH)	OSHA Annotated Table Z-1 (NIOSH Pocket Guide to Chemical Hazards (NPG))

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

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 : Liquid.
Color : clear amber
Odor : Gasoline
Odor threshold : No data available
pH : No data available
Melting point : -150 °F

Flex Fuel

Safety Data Sheet

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

Freezing point	: No data available
Boiling point	: 20 – 227 °C
Flash point	: ≤ -40 °C
Relative evaporation rate (butyl acetate=1)	: > 1
Flammability (solid, gas)	: Extremely flammable liquid and vapor.
Vapor pressure	: 330 – 775 mm Hg (37.8 °C / 100 °F)
Relative vapor density at 20°C	: > 1
Relative density	: No data available
Solubility	: Negligible.
Partition coefficient n-octanol/water (Log Pow)	: 2 – 7
Auto-ignition temperature	: > 250 °C
Decomposition temperature	: No data available
Viscosity, kinematic	: 0.64 – 1.4 mm²/s
Explosion 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

10.1. Reactivity

Highly flammable liquid and vapor.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11 Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

naphthalene (91-20-3)	
LD50 oral rat	533 mg/kg
LD50 oral	533 mg/kg (OECD 401 method); Data source: ECHA registration dossier
LD50 dermal rat	> 16000 mg/kg body weight (OECD 402 method); Data source: ECHA registration dossier

Flex Fuel

Safety Data Sheet

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

naphthalene (91-20-3)	
LC50 Inhalation - Rat (Vapors)	> 0.4 mg/l (OECD 403 method); Data source: ECHA registration dossier
ATE US (oral)	533 mg/kg body weight
Benzene (71-43-2)	
LD50 oral rat	> 5000 mg/kg body weight Neither mortality nor clinical signs of toxicity were observed with the given dose. Data source: ECHA registration dossier (OECD 401 method)
LD50 dermal rabbit	> 8260 mg/kg Data source: ECHA registration dossier (Method: 21 CFR 191.10)
LC50 Inhalation - Rat (Vapors)	43.767 mg/l/4h (OECD 403 method)
ATE US (vapors)	43.767 mg/l/4h
Toluene (108-88-3)	
LD50 oral rat	> 5000 mg/kg body weight Data source: ECHA registration dossier (Test method EU B.1 (bis))
LD50 dermal rabbit	> 5000 mg/kg body weight Data source: ECHA registration dossier
LC50 Inhalation - Rat	> 20 mg/l/4h Data source: ECHA registration dossier (OECD 203 method)
n-hexane (110-54-3)	
LD50 oral rat	16000 mg/kg (OECD 401 method); Data source: ECHA registration dossier
LD50 dermal rabbit	> 5000 mg/kg No mortalities were reported during the study period,(OECD 402 method), Data source: ECHA registration dossier
LC50 Inhalation - Rat (Vapors)	> 20 mg/l/4h Data source: ECHA registration dossier
ATE US (oral)	16000 mg/kg body weight
Ethylbenzene (100-41-4)	
LD50 oral rat	3500 mg/kg Data source: ECHA registration dossier
LD50 dermal rabbit	15432 mg/kg body weight Data source: ECHA registration dossier
LC50 Inhalation - Rat (Vapors)	17.8 mg/l/4h Data source: ECHA registration dossier
ATE US (oral)	3500 mg/kg body weight
ATE US (dermal)	15432 mg/kg body weight
ATE US (vapors)	17.8 mg/l/4h
Gasoline (86290-81-5)	
LD50 oral rat	> 5000 mg/kg body weight (OECD 401 method)
LD50 dermal rabbit	> 5000 mg/kg body weight No mortalities were reported during the study period; Data source: ECHA registration dossier
LC50 Inhalation - Rat	> 5610 mg/m ³
Xylene (1330-20-7)	
LD50 oral rat	5521 – 5627 mg/kg body weight Test method EU B.1 (bis); Data source: ECHA registration dossier
ATE US (oral)	5521 mg/kg body weight
ATE US (dermal)	1100 mg/kg body weight
ATE US (vapors)	11 mg/l/4h

Flex Fuel

Safety Data Sheet

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

Benzene, trimethyl- (25551-13-7)	
LD50 oral rat	8970 mg/kg
ATE US (oral)	500 mg/kg body weight
ATE US (dermal)	1100 mg/kg body weight
1,2,4-trimethylbenzene (95-63-6)	
LD50 oral rat	6000 mg/kg body weight
LD50 dermal rat	> 5000 mg/kg
LD50 dermal rabbit	> 3440 mg/kg body weight
LC50 Inhalation - Rat	> 10200 mg/m ³
ATE US (oral)	6000 mg/kg body weight
ATE US (vapors)	11 mg/l/4h
cumene (98-82-8)	
LD50 oral rat	2260 mg/kg body weight Data source: ECHA registration dossier
LD50 dermal rabbit	> 3160 mg/kg body weight Data source ECHA registration dossier
LC50 Inhalation - Rat	> 17.6 mg/l Data source: ECHA registration dossier
Ethanol (64-17-5)	
LD50 oral rat	10470 mg/kg body weight Data source: ECHA registration dossier (OECD 401 method)
LC50 Inhalation - Rat	124.7 (116.9 – 133.8) mg/l/4h (OECD 403 method)
Skin corrosion/irritation	: Causes skin irritation .
Serious eye damage/irritation	: Causes serious eye irritation .
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: May cause genetic defects.
Carcinogenicity	: May cause cancer.
naphthalene (91-20-3)	
IARC group	2B - Possibly carcinogenic to humans
National Toxicity Program (NTP) Status	Reasonably anticipated to be Human Carcinogen, Evidence of Carcinogenicity
In OSHA Hazard Communication Carcinogen list	Yes
Benzene (71-43-2)	
IARC group	1 - Carcinogenic to humans
National Toxicity Program (NTP) Status	Known Human Carcinogens, Evidence of Carcinogenicity
In OSHA Hazard Communication Carcinogen list	Yes
In OSHA Specifically Regulated Carcinogen list	Yes
Toluene (108-88-3)	
IARC group	3 - Not classifiable
Ethylbenzene (100-41-4)	
IARC group	2B - Possibly carcinogenic to humans
National Toxicity Program (NTP) Status	Evidence of Carcinogenicity
In OSHA Hazard Communication Carcinogen list	Yes

Flex Fuel

Safety Data Sheet

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

Gasoline (86290-81-5)	
IARC group	2B - Possibly carcinogenic to humans
In OSHA Hazard Communication Carcinogen list	Yes
Xylene (1330-20-7)	
IARC group	3 - Not classifiable
cumene (98-82-8)	
IARC group	2B - Possibly carcinogenic to humans
National Toxicity Program (NTP) Status	Reasonably anticipated to be Human Carcinogen, Evidence of Carcinogenicity
In OSHA Hazard Communication Carcinogen list	Yes
Ethanol (64-17-5)	
IARC group	1 - Carcinogenic to humans
Reproductive toxicity	: Suspected of damaging fertility or the unborn child .
naphthalene (91-20-3)	
LOAEL (animal/female, F1)	450 mg/kg body weight rat
STOT-single exposure	: May cause drowsiness or dizziness . May cause respiratory irritation .
Toluene (108-88-3)	
STOT-single exposure	May cause drowsiness or dizziness.
n-hexane (110-54-3)	
STOT-single exposure	May cause drowsiness or dizziness.
Gasoline (86290-81-5)	
STOT-single exposure	May cause drowsiness or dizziness.
Xylene (1330-20-7)	
STOT-single exposure	May cause respiratory irritation.
1,2,4-trimethylbenzene (95-63-6)	
STOT-single exposure	May cause respiratory irritation.
cumene (98-82-8)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Causes damage to organs through prolonged or repeated exposure .
naphthalene (91-20-3)	
LOAEL (oral,rat,90 days)	400 mg/kg body weight (OECD 408 method)
LOAEC (inhalation,rat,vapor,90 days)	0.011 mg/l air (OECD 413 method)
NOAEL (oral,rat,90 days)	200 mg/kg body weight (OECD 408 method)
NOAEL (dermal,rat/rabbit,90 days)	1000 mg/kg body weight rat , (OECD 411 method)
Benzene (71-43-2)	
STOT-repeated exposure	Causes 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.

Flex Fuel

Safety Data Sheet

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

n-hexane (110-54-3)	
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Ethylbenzene (100-41-4)	
NOAEL (oral, rat, 90 days)	75 mg/kg body weight (OECD 408 method)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Xylene (1330-20-7)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
1,2,4-trimethylbenzene (95-63-6)	
NOAEL (oral, rat, 90 days)	600 mg/kg body weight (OECD 408 method)
NOAEC (inhalation, rat, vapor, 90 days)	1.8 mg/l air rat, (OECD 452 method)
cumene (98-82-8)	
NOAEC (inhalation, rat, vapor, 90 days)	125 ppm (OECD 413 method)
Aspiration hazard : May be fatal if swallowed and enters airways .	
Flex Fuel	
Viscosity, kinematic	0.64 – 1.4 mm²/s
Benzene (71-43-2)	
Hydrocarbon	Yes
Toluene (108-88-3)	
Hydrocarbon	Yes
n-hexane (110-54-3)	
Hydrocarbon	Yes
Gasoline (86290-81-5)	
Hydrocarbon	Yes
Xylene (1330-20-7)	
Hydrocarbon	Yes
cumene (98-82-8)	
Human evidence for classification	Yes
Symptoms/effects	: May cause drowsiness or dizziness.
Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Eye irritation.
Symptoms/effects after ingestion	: Risk of lung edema.

SECTION 12 Ecological information

12.1. Ecotoxicity

Ecology - general	: Toxic to aquatic life. Toxic to aquatic life with long lasting effects.
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 .

Flex Fuel

Safety Data Sheet

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

naphthalene (91-20-3)	
LC50 - Fish [1]	0.9 mg/l Data source: ECHA registration dossier
EC50 - Crustacea [1]	2.16 mg/l Species: Daphnia magna (Water flea), (OECD 202 method); Data source: ECHA registration dossier
EC50 72h - Algae [1]	2.96 mg/l Species: Raphidocelis subcapitata; Data source: ECHA registration dossier
NOEC chronic fish	0.02 mg/l Data source: ECHA registration dossier
NOEC chronic crustacea	0.59 mg/l Data source: ECHA registration dossier
NOEC chronic algae	0.41 mg/l
Benzene (71-43-2)	
LC50 - Fish [1]	5.3 mg/l Pimephales promelasSpecies: Oncorhynchus mykiss (Rainbow trout). Data source: ECHA registration dossier (OECD 203 method)
EC50 - Crustacea [1]	10 mg/l Species: Daphnia magna (Water flea). Data source: ECHA registration dossier (OECD 202 method)
ErC50 algae	100 mg/l Species: Raphidocelis subcapitata. Data source: ECHA registration dossier (OECD 201 method)
NOEC chronic fish	0.8 mg/l Species: Pimephales promelas. Data source: ECHA registration dossier (Method: ASTM 1984)
NOEC chronic crustacea	3 mg/l Species: Ceriodaphnia dubia. Data source: ECHA registration dossier (Method: US EPA 600/4-91-003)
NOEC chronic algae	34 mg/l Species: Raphidocelis subcapitata. Data source: ECHA registration dossier (OECD 201 method)
Toluene (108-88-3)	
LC50 - Fish [1]	5.5 mg/l Data source: ECHA registration dossier
EC50 - Crustacea [1]	3.78 mg/l Species: Ceriodaphnia dubia. Data source: ECHA registration dossier (Method: US EPA 600/4-91-003)
NOEC chronic fish	1.4 mg/l DurationData source: ECHA registration dossier
NOEC chronic crustacea	0.74 mg/l Species: Ceriodaphnia dubia. Data source: ECHA registration dossier (Method: US EPA 600/4-91-003)
NOEC chronic algae	10 mg/l Species: Skeletonema costatum (marine diatom). Data source: ECHA registration dossier (OECD 201 method)
n-hexane (110-54-3)	
LC50 - Fish [1]	> 1000 mg/l Species: Oryzias latipes (Ricefish). Data source: ECHA registration dossier
EC50 - Crustacea [1]	3.878 mg/l Species: Daphnia magna (Water flea). Data source: ECHA registration dossier
Ethylbenzene (100-41-4)	
LC50 - Fish [1]	4.2 mg/l (OECD 203 method) ; Oncorhynchus mykiss (Rainbow trout)
EC50 - Crustacea [1]	1.8 – 2.4 mg/l Daphnia magna (Water flea); Data source: ECHA registration dossier
EC50 72h - Algae [1]	5.4 mg/l Pseudokirchneriella subcapitata; Data source: ECHA registration dossier
EC50 96h - Algae [1]	3.6 mg/l Pseudokirchneriella subcapitata; Data source: ECHA registration dossier
NOEC chronic crustacea	0.96 mg/l Data source: ECHA registration dossier

Flex Fuel

Safety Data Sheet

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

Gasoline (86290-81-5)	
LC50 - Fish [1]	8.2 mg/l Species: Pimephales promelas
EC50 - Crustacea [1]	4.5 mg/l Species: Daphnia magna (Water flea)
EC50 72h - Algae [1]	3.1 mg/l Species: Selenastrum capricornutum
Xylene (1330-20-7)	
LC50 - Fish [1]	2.6 mg/l (OECD 203 method) ; Oncorhynchus mykiss (Rainbow trout)
EC50 - Crustacea [1]	> 3.4 mg/l Ceriodaphnia dubia
ErC50 algae	4.36 mg/l (OECD 201 method) ; Pseudokirchneriella subcapitata
NOEC chronic fish	> 1.3 mg/l Oncorhynchus mykiss (Rainbow trout)
Benzene, trimethyl- (25551-13-7)	
EC50 - Crustacea [1]	5.62 mg/l
1,2,4-trimethylbenzene (95-63-6)	
LC50 - Fish [1]	7.72 mg/l
EC50 - Crustacea [1]	6.14 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 96h - Algae [1]	2156 mg/l (Scenedesmus subspicatus)
cumene (98-82-8)	
LC50 - Fish [1]	4.7 mg/l Cyprinodon variegatus (sheepshead minnow)
EC50 - Crustacea [1]	2.14 mg/l Daphnia magna (Water flea)
EC50 72h - Algae [1]	1.29 – 2.01 mg/l Desmodesmus subspicatus
NOEC chronic fish	0.38 mg/l Quantitative structure-activity relationship (QSAR)
NOEC chronic crustacea	0.35 mg/l Daphnia magna (Water flea)
NOEC chronic algae	0.73 – 1.49 mg/l Desmodesmus subspicatus
Ethanol (64-17-5)	
LC50 - Fish [1]	15300 mg/l Species: Pimephales promelas. Data source: ECHA registration dossier (Method: US EPA E03-05)
EC50 - Crustacea [1]	5012 mg/l Species: Ceriodaphnia dubia. Data source: ECHA registration dossier (Method: ASTM E729-80)
EC50 72h - Algae [1]	275 mg/l Species: Green algae. Data source: ECHA registration dossier (OECD 201 method)
NOEC chronic fish	250 mg/l Species: Brachydanio rerio (zebra-fish). Duration: 120 Hours. Data source: ECHA registration dossier (OECD 212 method)
NOEC chronic crustacea	9.6 mg/l Species: Ceriodaphnia dubia. Duration: 10 days. Data source: ECHA registration dossier

12.2. Persistence and degradability

Flex Fuel	
Persistence and degradability	Not rapidly degradable
naphthalene (91-20-3)	
Persistence and degradability	Inherently biodegradable.

Flex Fuel

Safety Data Sheet

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

Benzene (71-43-2)	
Persistence and degradability	Readily biodegradable.
Toluene (108-88-3)	
Persistence and degradability	Readily biodegradable.
n-hexane (110-54-3)	
Persistence and degradability	Readily biodegradable.
Ethylbenzene (100-41-4)	
Persistence and degradability	Readily biodegradable.
Gasoline (86290-81-5)	
Persistence and degradability	Not rapidly degradable
Xylene (1330-20-7)	
Persistence and degradability	Readily biodegradable.
Benzene, trimethyl- (25551-13-7)	
Persistence and degradability	Rapidly degradable
1,2,4-trimethylbenzene (95-63-6)	
Persistence and degradability	Not readily biodegradable.
cumene (98-82-8)	
Persistence and degradability	Readily biodegradable.
Ethanol (64-17-5)	
Persistence and degradability	Readily biodegradable.

12.3. Bioaccumulative potential

Flex Fuel	
Partition coefficient n-octanol/water (Log Pow)	2 – 7
naphthalene (91-20-3)	
BCF - Fish [1]	36.5 - 168 dimensionless
Partition coefficient n-octanol/water (Log Pow)	3.4 (25 °C), (OECD 107 method); Data source: ECHA registration dossier
Bioaccumulative potential	Low bioaccumulation potential.
Benzene (71-43-2)	
BCF - Fish [1]	13 l/kg Data source: ECHA registration dossier (Method: QSAR)
Partition coefficient n-octanol/water (Log Pow)	2.13 Temperature: 25°C - pH: 7. Data source: ECHA registration dossier
Bioaccumulative potential	Low bioaccumulation potential.
Toluene (108-88-3)	
BCF - Fish [1]	90 mg/kg Data source: ECHA registration dossier
Partition coefficient n-octanol/water (Log Pow)	2.73 Data source: ECHA registration dossier
Bioaccumulative potential	Slightly or not bioaccumulative.

Flex Fuel

Safety Data Sheet

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

n-hexane (110-54-3)	
Partition coefficient n-octanol/water (Log Pow)	4 Temperature: 20°C. Data source: ECHA registration dossier
Ethylbenzene (100-41-4)	
BCF - Fish [1]	1 – 2.4 Oncorhynchus mykiss (Rainbow trout)
Partition coefficient n-octanol/water (Log Pow)	3.6 Test method EU A.8, 20 °C
Bioaccumulative potential	Low bioaccumulation potential.
Xylene (1330-20-7)	
BCF - Fish [1]	> 8.1 – < 25.9 Oncorhynchus mykiss (Rainbow trout)
Partition coefficient n-octanol/water (Log Pow)	3.2 (20 °C)
Bioaccumulative potential	Low bioaccumulation potential.
1,2,4-trimethylbenzene (95-63-6)	
BCF - Fish [1]	243 dimensionless
Partition coefficient n-octanol/water (Log Pow)	3.63 (25°C)
Bioaccumulative potential	Low bioaccumulation potential.
cumene (98-82-8)	
BCF - Fish [1]	94.69 ECHA (European Chemicals Agency)
Partition coefficient n-octanol/water (Log Pow)	3.55
Ethanol (64-17-5)	
Partition coefficient n-octanol/water (Log Pow)	-0.35 Temperature: 24°C - pH: 7.4. Data source: ECHA registration dossier (OECD 107 method)
Bioaccumulative potential	Slightly or not bioaccumulative.
12.4. Mobility in soil	
Toluene (108-88-3)	
Surface tension	27.73 mN/m Temperature: 25°C. Data source: ECHA registration dossier
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.31 Data source: ECHA registration dossier (Method: QSAR)
Ethylbenzene (100-41-4)	
Surface tension	71.2 mN/m (23 °C), Test method EU A.5
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.71
Xylene (1330-20-7)	
Surface tension	28.01 – 29.76 mN/m (25 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.73 (OECD 121 method)
Ethanol (64-17-5)	
Surface tension	0.022 N/m Temperature: 20°C. Data source: ECHA registration dossier

Flex Fuel

Safety Data Sheet

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

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 : Flammable vapors may accumulate in the container. Do not re-use empty containers.

SECTION 14 Transport information

In accordance with DOT / TDG / IMDG / IATA

DOT	TDG	IMDG	IATA
14.1. UN number			
UN1203	UN1203	1203	1203
14.2. Proper Shipping Name			
Gasoline	GASOLINE	GASOLINE	Gasoline
14.3. Transport hazard class(es)			
3	3	3	3
			
14.4. Packing group			
II	II	II	II
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) : UN1203

Flex Fuel

Safety Data Sheet

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

DOT Special Provisions (49 CFR 172.102)	: 144 - If transported as a residue in an underground storage tank (UST), as defined in 40 CFR 280.12, that has been cleaned and purged or rendered inert according to the American Petroleum Institute (API) Standard 1604 (IBR, see 171.7 of this subchapter), then the tank and this material are not subject to any other requirements of this subchapter. However, sediments remaining in the tank that meet the definition for a hazardous material are subject to the applicable regulations of this subchapter. 177 - Gasoline, or, ethanol and gasoline mixtures, for use in internal combustion engines (e.g, in automobiles, stationary engines and other engines) must be assigned to Packing Group II regardless of variations in volatility. B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. B33 - MC 300, MC 301, MC 302, MC 303, MC 305, MC 306, and DOT 406 cargo tanks equipped with a 1 psig normal vent used to transport gasoline must conform to Table I of this Special Provision. Based on the volatility class determined by using ASTM D 439 and the Reid vapor pressure (RVP) of the particular gasoline, the maximum lading pressure and maximum ambient temperature permitted during the loading of gasoline may not exceed that listed in Table I. IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). 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. T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
DOT Vessel Stowage Location	: E - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length, but is prohibited from carriage on passenger vessels in which the limiting number of passengers is exceeded.
TDG	
UN-No. (TDG)	: UN1203
TDG Special Provisions	: 17 - These dangerous goods may be handled, offered for transport or transported under the UN number and shipping name UN1268, PETROLEUM DISTILLATES, N.O.S, PETROLEUM PRODUCTS N.O.S, DISTILLATS DE PÉTROLE, N.S.A. or PRODUITS PÉTROLIERS, N.S.A.,88 - Despite the quantity limits in column 9 of Schedule 1 for these dangerous goods, a road vehicle is not a passenger carrying road vehicle unless the passengers in it are transported for hire or reward,98 - If these dangerous goods are composed of more than 10% ethanol, they must be transported under UN3475, ETHANOL AND GASOLINE MIXTURE,150 - An approved ERAP is required for the dangerous goods referred to in paragraph 7.2(1)(f) of Part 7 (Emergency Response Assistance Plan).
Explosive Limit and Limited Quantity Index	: 30 L
Excepted quantities (TDG)	: E2
Passenger Carrying Vessel Index	: 100 L
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	: 5 L
Emergency Response Guide (ERG) Number	: 128
IMDG	
Special provision (IMDG)	: 243
Limited quantities (IMDG)	: 1 L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02

Flex Fuel

Safety Data Sheet

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

Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1
EmS-No. (Fire)	: F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS
EmS-No. (Spillage)	: S-E - SPILLAGE SCHEDULE Echo - FLAMMABLE LIQUIDS, FLOATING ON WATER
Stowage category (IMDG)	: E
Properties and observations (IMDG)	: Immiscible with water.

IATA

Special provision (IATA)	: A100
PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y341
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 353
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 364
CAO max net quantity (IATA)	: 60L
ERG code (IATA)	: 3H

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, except for:

Gasoline	CAS-No. 86290-81-5	≥ 15 – < 50%
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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%
Benzene	CAS-No. 71-43-2	≥ 0.1 – < 3%
Toluene	CAS-No. 108-88-3	≥ 0.1 – < 25%
n-hexane	CAS-No. 110-54-3	≥ 0.1 – < 3%
Ethylbenzene	CAS-No. 100-41-4	≥ 0.1 – < 3%
Xylene	CAS-No. 1330-20-7	≥ 0.1 – < 15%
1,2,4-trimethylbenzene	CAS-No. 95-63-6	≥ 0.1 – < 3%
cumene	CAS-No. 98-82-8	≥ 0.1 – < 10%

naphthalene (91-20-3)

Listed on EPA Hazardous Air Pollutant (HAPS)

CERCLA RQ	100 lb
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Benzene (71-43-2)

Listed on EPA Hazardous Air Pollutant (HAPS)

CERCLA RQ	10 lb received an adjusted RQ of 10 lbs based on potential carcinogenicity in an August 14, 1989 final rule
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Flex Fuel

Safety Data Sheet

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

Toluene (108-88-3)	
Listed on EPA Hazardous Air Pollutant (HAPS)	
CERCLA RQ	1000 lb

n-hexane (110-54-3)	
Listed on EPA Hazardous Air Pollutant (HAPS)	
CERCLA RQ	5000 lb

Ethylbenzene (100-41-4)	
Listed on EPA Hazardous Air Pollutant (HAPS)	
CERCLA RQ	1000 lb

Xylene (1330-20-7)	
Listed on EPA Hazardous Air Pollutant (HAPS)	
CERCLA RQ	100 lb

cumene (98-82-8)	
Listed on EPA Hazardous Air Pollutant (HAPS)	
CERCLA RQ	5000 lb

15.2. International regulations

CANADA

naphthalene (91-20-3)	
Listed on the Canadian DSL (Domestic Substances List)	
Toxic Substance (CEPA – Schedule I)	Yes

Benzene (71-43-2)	
Listed on the Canadian DSL (Domestic Substances List)	
Toxic Substance (CEPA – Schedule I)	Yes

Toluene (108-88-3)	
Listed on the Canadian DSL (Domestic Substances List)	

n-hexane (110-54-3)	
Listed on the Canadian DSL (Domestic Substances List)	

Ethylbenzene (100-41-4)	
Listed on the Canadian DSL (Domestic Substances List)	

Gasoline (86290-81-5)	
Listed on the Canadian DSL (Domestic Substances List)	

Flex Fuel

Safety Data Sheet

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

Xylene (1330-20-7)

Listed on the Canadian DSL (Domestic Substances List)

Benzene, trimethyl- (25551-13-7)

Listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

cumene (98-82-8)

Listed on the Canadian DSL (Domestic Substances List)

Ethanol (64-17-5)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

naphthalene (91-20-3)

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

Benzene (71-43-2)

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

Toluene (108-88-3)

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

n-hexane (110-54-3)

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

Ethylbenzene (100-41-4)

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

Gasoline (86290-81-5)

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

Xylene (1330-20-7)

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

Benzene, trimethyl- (25551-13-7)

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

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

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

Flex Fuel

Safety Data Sheet

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

cumene (98-82-8)

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

Ethanol (64-17-5)

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

National regulations

naphthalene (91-20-3)

Listed on IARC (International Agency for Research on Cancer)
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Japanese Pollutant Release and Transfer Register Law (PRTR Law)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on the NCI (Vietnam - National Chemical Inventory)
Listed on Thailand Existing Chemicals Inventory (DIW)

Benzene (71-43-2)

Listed on IARC (International Agency for Research on Cancer)
Listed as carcinogen on NTP (National Toxicology Program)
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Japanese Pollutant Release and Transfer Register Law (PRTR Law)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on the NCI (Vietnam - National Chemical Inventory)
Listed on Thailand Existing Chemicals Inventory (DIW)

Toluene (108-88-3)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Japanese Poisonous and Deleterious Substances Control Law
Japanese Pollutant Release and Transfer Register Law (PRTR Law)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on the NCI (Vietnam - National Chemical Inventory)
Listed on Thailand Existing Chemicals Inventory (DIW)

Flex Fuel

Safety Data Sheet

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

n-hexane (110-54-3)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Japanese Pollutant Release and Transfer Register Law (PRTR Law)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on the NCI (Vietnam - National Chemical Inventory)
Listed on Thailand Existing Chemicals Inventory (DIW)

Ethylbenzene (100-41-4)

Listed on IARC (International Agency for Research on Cancer)
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Japanese Pollutant Release and Transfer Register Law (PRTR Law)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on the NCI (Vietnam - National Chemical Inventory)
Listed on Thailand Existing Chemicals Inventory (DIW)

Gasoline (86290-81-5)

Listed on IARC (International Agency for Research on Cancer)
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on the NCI (Vietnam - National Chemical Inventory)

Xylene (1330-20-7)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Japanese Poisonous and Deleterious Substances Control Law
Japanese Pollutant Release and Transfer Register Law (PRTR Law)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on the NCI (Vietnam - National Chemical Inventory)
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Flex Fuel

Safety Data Sheet

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

Benzene, trimethyl- (25551-13-7)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Japanese Pollutant Release and Transfer Register Law (PRTR Law)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on the NCI (Vietnam - National Chemical Inventory)
Listed on Thailand Existing Chemicals Inventory (DIW)

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

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Japanese Pollutant Release and Transfer Register Law (PRTR Law)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on the NCI (Vietnam - National Chemical Inventory)
Listed on Thailand Existing Chemicals Inventory (DIW)

cumene (98-82-8)

Listed on IARC (International Agency for Research on Cancer)
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Japanese Pollutant Release and Transfer Register Law (PRTR Law)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on the NCI (Vietnam - National Chemical Inventory)
Listed on Thailand Existing Chemicals Inventory (DIW)

Flex Fuel

Safety Data Sheet

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

Ethanol (64-17-5)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on the NCI (Vietnam - National Chemical Inventory)
Listed on Thailand Existing Chemicals Inventory (DIW)

15.3. State regulations

 **WARNING:** This product can expose you to chemicals including Benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Component	State or local regulations
naphthalene(91-20-3)	U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Minnesota - Hazardous Substance List; U.S. - Massachusetts - Right To Know List; U.S. - Minnesota - Chemicals of High Concern
Benzene(71-43-2)	U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Minnesota - Hazardous Substance List; U.S. - Massachusetts - Right To Know List; U.S. - Minnesota - Chemicals of High Concern
Toluene(108-88-3)	U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Minnesota - Hazardous Substance List; U.S. - Massachusetts - Right To Know List; U.S. - Minnesota - Chemicals of High Concern
n-hexane(110-54-3)	U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Minnesota - Hazardous Substance List; U.S. - Massachusetts - Right To Know List; U.S. - Minnesota - Chemicals of High Concern
Ethylbenzene(100-41-4)	U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Minnesota - Hazardous Substance List; U.S. - Massachusetts - Right To Know List; U.S. - Minnesota - Chemicals of High Concern
Gasoline(86290-81-5)	U.S. - Pennsylvania - RTK (Right to Know) List
Xylene(1330-20-7)	U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Minnesota - Hazardous Substance List; U.S. - Massachusetts - Right To Know List; U.S. - Minnesota - Chemicals of High Concern
Benzene, trimethyl-(25551-13-7)	U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Minnesota - Hazardous Substance List; U.S. - Massachusetts - Right To Know List
1,2,4-trimethylbenzene(95-63-6)	U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Minnesota - Hazardous Substance List; U.S. - Massachusetts - Right To Know List
cumene(98-82-8)	U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Minnesota - Hazardous Substance List; U.S. - Massachusetts - Right To Know List; U.S. - Minnesota - Chemicals of High Concern
Ethanol(64-17-5)	U.S. - Massachusetts - Right To Know List; U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16 Other information

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

Issue date

: 12/8/2025

Flex Fuel

Safety Data Sheet

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

Full text of hazard classes and H-statements	
H224	Extremely flammable liquid and vapor
H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
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
H340	May cause genetic defects.
H350	May cause cancer.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure
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

NFPA health hazard

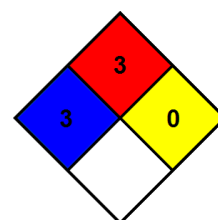
: 3 - Materials that, under emergency conditions, can cause serious or permanent injury.

NFPA fire hazard

: 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.

NFPA reactivity

: 0 - Material that in themselves are normally stable, even under fire conditions.



Hazard Rating

Health

: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given

Flammability

: * - Chronic (long-term) health effects may result from repeated overexposure
: 3 Serious Hazard - Materials capable of ignition under almost all normal temperature conditions. Includes flammable liquids with flash points below 73 F and boiling points above 100 F. as well as liquids with flash points between 73 F and 100 F. (Classes IB IC)

Physical

: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

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.