

SECTION 1 Identification

1.1. Product identifier

Product form	: Substance
Trade name	: Denatured Ethanol
Chemical name	: Ethanol
CAS-No.	: 64-17-5
Formula	: C ₂ H ₆ O

1.2. Other means of identification

Synonyms	: Ethanol / E95
EC-No.	: 200-578-6

1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture	: Fuels
Recommended use	: Fuel additives
Restrictions on use	: For professional use only

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
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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 .
Serious eye damage/eye irritation, Category 2A	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 .
Full text of H statements : see section 16		

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 .
H319 - Causes serious eye irritation .

Denatured Ethanol

Safety Data Sheet

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

Precautionary statements (GHS US)

H340 - May cause genetic defects.
H350 - May cause cancer.
H361 - Suspected of damaging fertility or the unborn child .
: 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.
P264 - Wash hands, forearms and face thoroughly after handling.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
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.
P337+P313 - If eye irritation persists: Get medical advice or attention.
P370+P378 - In case of fire: Use Water spray, alcohol resistant foam, Dry chemical, carbon dioxide (CO2) to extinguish.
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.

2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

2.4. Hazards not otherwise classified

Other hazards which do not result in classification : Slightly irritating to the skin. Irritating to respiratory system. May cause drowsiness or dizziness.

2.5. Unknown acute toxicity

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Name : Ethanol
CAS-No. : 64-17-5

Name	Product identifier	Conc.	GHS US classification
Ethanol	CAS-No.: 64-17-5	≥ 95 – < 99	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 Muta. 1B, H340 Carc. 1A, H350 Repr. 2, H361

Denatured Ethanol

Safety Data Sheet

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

Name	Product identifier	Conc.	GHS US classification
Gasoline	CAS-No.: 86290-81-5	$\geq 1 - < 5$	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
Benzene	CAS-No.: 71-43-2	< 1	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

*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

3.2. Mixtures

Not applicable

SECTION 4 First aid measures

4.1. Description of necessary first-aid measures

First-aid measures general	: IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing.
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	: Call a poison center/doctor/physician if you feel unwell.
Personal protection for first-aid responders.	: First aid workers will be equipped with suitable personal protective equipment.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after inhalation	: None under normal conditions.
Symptoms/effects after skin contact	: None under normal conditions.
Symptoms/effects after eye contact	: Eye irritation.
Symptoms/effects after ingestion	: None under normal conditions.

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	: alcohol resistant foam. Water spray. Water fog. Dry powder. Carbon dioxide. For small fire: Sand/earth.
Unsuitable extinguishing media	: high volume water jet.

Denatured Ethanol

Safety Data Sheet

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

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	: smokes. Carbon monoxide.

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 fume, vapors.

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	: Absorb spilled material with sand or earth. 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	: Notify authorities if product enters sewers or public waters. Clean up any spills as soon as possible, using an absorbent material to collect it.
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	: 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. Avoid contact with skin and eyes.
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Denatured Ethanol

Safety Data Sheet

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

Hygiene measures	: Separate working clothes from town clothes. Launder separately. 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.
Incompatible materials	: Strong oxidizing agents. Strong acids.
Packaging materials	: Always store product in container of same material as original container.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Denatured 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)
ACGIH® chemical category	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
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 - IDLH - Occupational Exposure Limits	
IDLH	3300 ppm (10% LEL)
USA - NIOSH - Occupational Exposure Limits	
Local name	Ethyl alcohol (Ethanol)
NIOSH REL (TWA)	1900 mg/m ³
	1000 ppm
NIOSH REL 10h TWA	1000 ppm
Regulatory reference (US-NIOSH)	OSHA Annotated Table Z-1 (NIOSH Pocket Guide to Chemical Hazards (NPG))

Denatured Ethanol

Safety Data Sheet

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

Gasoline (86290-81-5)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Gasoline
ACGIH® TLV® TWA	890 mg/m³
	300 ppm
ACGIH® TLV® STEL	1480 mg/m³
	500 ppm
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
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

Denatured Ethanol

Safety Data Sheet

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

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				
Type	Material	Permeation	Thickness (mm)	Penetration
Protective gloves		6 (> 480 minutes)	> 0.35	
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	: Colorless
Odor	: No data available
Odor threshold	: No data available
pH	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: 78 °C (172 °F)
Flash point	: 13 °C (typical); (55 °F)
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: 16 kPa (typical); (38.0 °C / 100.4 °F)
Vapor pressure at 50°C	: 0.29 bar (typical); (50.0 °C / 122.0 °F)
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Density	: 790 kg/m³ (typical); (15.0 °C / 59.0 °F)
Solubility	: Water: completely miscible
Partition coefficient n-octanol/water (Log Pow)	: < 1
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: 1.1 mm²/s (40.0 °C / 104.0 °F)

Denatured Ethanol

Safety Data Sheet

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

Explosion limits : Lower explosion limit: 3.1 vol %
Upper explosion limit: 23.5 vol %
Particle characteristics : No data available

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

Specific conductivity : > 10000 pS/m

SECTION 10 Stability and reactivity

10.1. Reactivity

Oxidises in air and releases heat. Highly flammable liquid and vapor.

10.2. Chemical stability

Reacts with : Strong oxidizing agents. Strong acids.

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

Strong acids. Strong oxidizing agents.

10.6. Hazardous decomposition products

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

SECTION 11 Toxicological information

11.1. Information on toxicological effects

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

Denatured Ethanol (64-17-5)	
LD50 oral rat	10740 mg/kg body weight (OECD 401 method)
LD50 dermal rabbit	> 16000 mg/kg
LC50 Inhalation - Rat	117 – 125 mg/l/4h (OECD 403 method)
ATE US (oral)	10740 mg/kg body weight
ATE US (gases)	117 ppmV/4h
ATE US (vapors)	117 mg/l/4h
ATE US (dust, mist)	117 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

Denatured Ethanol

Safety Data Sheet

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

Gasoline (86290-81-5)	
LC50 Inhalation - Rat	> 5610 mg/m ³
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
Skin corrosion/irritation	: Not classified
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.
Denatured Ethanol (64-17-5)	
IARC group	1 - Carcinogenic to humans
Gasoline (86290-81-5)	
IARC group	2B - Possibly carcinogenic to humans
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
Reproductive toxicity	: Suspected of damaging fertility or the unborn child .
STOT-single exposure	: Not classified
Gasoline (86290-81-5)	
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified
Denatured Ethanol (64-17-5)	
LOAEL (oral,rat,90 days)	3200 mg/kg body weight (OECD 408 method)
NOAEL (oral,rat,90 days)	1730 mg/kg body weight (OECD 408 method)
Benzene (71-43-2)	
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified
Denatured Ethanol (64-17-5)	
Viscosity, kinematic	1.1 mm ² /s (40.0 °C / 104.0 °F)
Gasoline (86290-81-5)	
Hydrocarbon	Yes
Benzene (71-43-2)	
Hydrocarbon	Yes

Denatured Ethanol

Safety Data Sheet

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

Symptoms/effects after inhalation	: None under normal conditions.
Symptoms/effects after skin contact	: None under normal conditions.
Symptoms/effects after eye contact	: Eye irritation.
Symptoms/effects after ingestion	: None under normal conditions.

SECTION 12 Ecological information

12.1. Ecotoxicity

Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

Denatured Ethanol (64-17-5)	
LC50 - Fish [1]	12 – 16 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static] Source: EPA)
EC50 - Crustacea [1]	> 100 mg/l
LC50 - Fish [2]	> 100 mg/l
EC50 72h - Algae [1]	> 100 mg/l
NOEC chronic fish	> 100 mg/l
NOEC chronic crustacea	> 1 – ≤ 10 mg/l
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
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)

12.2. Persistence and degradability

Denatured Ethanol (64-17-5)	
Persistence and degradability	Readily biodegradable.

Denatured Ethanol

Safety Data Sheet

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

Gasoline (86290-81-5)	
Persistence and degradability	Not rapidly degradable

Benzene (71-43-2)	
Persistence and degradability	Readily biodegradable.

12.3. Bioaccumulative potential

Denatured Ethanol (64-17-5)	
BCF - Fish [1]	1 Cyprinus carpio (Common carp)
Partition coefficient n-octanol/water (Log Pow)	< 1
Bioaccumulative potential	Slightly or not bioaccumulative.

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.

12.4. Mobility in soil

No additional information available

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	: Do not discharge into surface water. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle by distillation. Remove to an authorized waste incinerator for solvents with energy recovery. May be discharged to wastewater treatment installation. Disposal must be done according to official regulations.
Additional information	: Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997. 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			
UN3475	UN3475	3475	3475

Denatured Ethanol

Safety Data Sheet

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

DOT	TDG	IMDG	IATA
14.2. Proper Shipping Name			
Ethanol and gasoline mixture	ETHANOL AND GASOLINE MIXTURE	ETHANOL AND GASOLINE MIXTURE	Ethanol and gasoline mixture
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: No	Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No
No supplementary information available			

14.6. Transport in bulk

Not applicable

14.7. Special precautions for user

DOT

UN-No. (DOT)	: UN3475
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. 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) 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)	: 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.

Denatured Ethanol

Safety Data Sheet

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

TDG

UN-No. (TDG)	: UN3475
TDG Special Provisions	: 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	: Forbidden
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	: 5 L
Emergency Response Guide (ERG) Number	: 127

IMDG

Transport regulations (IMDG)	: Subject to the provisions
Special provision (IMDG)	: 333, 363
Limited quantities (IMDG)	: 1 L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
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)	: Colorless, volatile liquids. Miscibility with water depends on the composition.

IATA

Special provision (IATA)	: A156
Transport regulations (IATA)	: Subject to the provisions
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)	: 3L

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	≥ 1 – < 5%
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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.

Benzene	CAS-No. 71-43-2	< 1%
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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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Denatured Ethanol

Safety Data Sheet

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

15.2. International regulations

CANADA

Denatured Ethanol (64-17-5)

Listed on the Canadian DSL (Domestic Substances List)

Gasoline (86290-81-5)

Listed on the Canadian DSL (Domestic Substances List)

Benzene (71-43-2)

Listed on the Canadian DSL (Domestic Substances List)

Toxic Substance (CEPA – Schedule I)

Yes

EU-Regulations

Denatured Ethanol (64-17-5)

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)

Benzene (71-43-2)

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

National regulations

Denatured 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)

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)

Denatured Ethanol

Safety Data Sheet

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

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)

15.3. State regulations

Denatured Ethanol (64-17-5)

State or local regulations	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
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 **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
Gasoline(86290-81-5)	U.S. - Pennsylvania - RTK (Right to Know) List
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

SECTION 16 Other information

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

Issue date : 11/21/2025

Full text of hazard classes and H-statements

H224	Extremely flammable liquid and vapor
H225	Highly flammable liquid and vapor
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness
H340	May cause genetic defects.
H350	May cause cancer.

Denatured Ethanol

Safety Data Sheet

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

Full text of hazard classes and H-statements	
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

NFPA health hazard

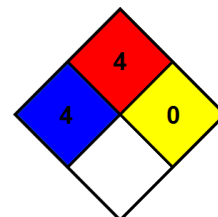
: 4 - Materials that, under emergency conditions, can be lethal.

NFPA fire hazard

: 4 - Materials that rapidly or completely vaporize at atmospheric pressure and normal ambient temperature or that are readily dispersed in air and burn readily.

NFPA reactivity

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



Hazard Rating

Health

: 4 Severe Hazard - Life-threatening, major or permanent damage may result from single or repeated overexposures

: * - Chronic (long-term) health effects may result from repeated overexposure

Flammability

: 4 Severe Hazard - Flammable gases, or very volatile flammable liquids with flash points below 73 F, and boiling points below 100 F. Materials may ignite spontaneously with air. (Class IA)

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.