

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product form: Substance

Product Name: Methanol

1.2. Intended Use of the Product: Solvent, laboratory chemicals. Not for food, drug or household use.

1.3. Name, Address, and Telephone of the Responsible Party

Company

High Precision Gas LLC
 10770 Painter Avenue
 Santa Fe Springs, CA 90670
 714-868-6525

www.highprecisiongas.com

1.4. Emergency Telephone Number

Emergency Number : Professional Emergency Resource Services (PERS)
 (800) 633-8253 24 / 7 / 365

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

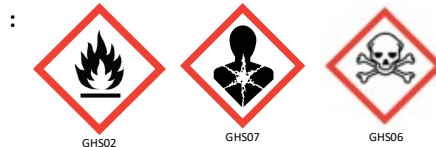
Flam. Liq. 2	H225
Acute Tox. 3 (oral)	H301
Acute Tox. 3 (dermal)	H311
Acute Tox. 3 (inhalation)	H331
STOT SE 1	H370

Full text of hazard classes and 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
 H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled.
 H370 - Causes damage to organs (liver, kidneys, central nervous system, optic nerve) (Dermal, oral)

Precautionary Statements (GHS-US)

: P210 - Keep away from heat, sparks, open flames, hot surfaces. - No smoking
 P233 - Keep container tightly closed.
 P240 - Ground/bond container and receiving equipment.
 P241 - Use explosion-proof electrical, ventilating, lighting equipment.
 P242 - Use only non-sparking tools.
 P243 - Take precautionary measures against static discharge.
 P260 - Do not breathe mist, vapors, spray.
 P264 - Wash exposed skin thoroughly after handling.
 P270 - Do not eat, drink or smoke when using this product.
 P271 - Use only outdoors or in a well-ventilated area.
 P280 - Wear protective gloves, protective clothing, eye protection, face protection.
 P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 P303+P361+P353 - IF ON SKIN (or hair): Remove/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.
 P330 - If swallowed, rinse mouth.
 P363 - Wash contaminated clothing before reuse.
 P370+P378 - In case of fire: Use carbon dioxide (CO2), powder, alcohol-resistant

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foam to extinguish.

P403+P235 - Store in a well-ventilated place. Keep cool.

P405 - Store locked up.

P501 - Dispose of contents/container to approved waste disposal plant in accordance with local, regional, national, and international regulations.

2.3. Other Hazards

None

2.4. Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Name	Synonyms	Product Identifier	%	GHS US classification
Methanol		(CAS-No.) 67-56-1	100	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT SE 1, H370

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures

First-aid Measures General: Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with labored breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain.

First-aid Measures After Inhalation: Remove the victim into fresh air. Immediately consult a doctor/medical service

First-aid Measures After Skin Contact: Wash immediately with lots of water. Soap may be used. Do not apply (chemical) neutralizing agents. Remove clothing before washing. Consult a doctor/medical service.

First-aid Measures After Eye Contact: Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing. Take victim to an ophthalmologist if irritation persists.

First-aid Measures After Ingestion: Rinse mouth with water. Immediately after ingestion, give alcohol to drink. Give nothing to drink. Do not induce vomiting. Immediately consult a doctor/medical service. Take the container/vomit to the doctor/hospital. Call Poison Information Centre (www.big.be/antigif.htm).

4.2. Most Important Symptoms and Effects Both Acute and Delayed

Potential Adverse Human Health effects and symptoms: Toxic in contact with skin. Toxic if swallowed. Toxic if inhaled

Symptoms/effects after inhalation: EXPOSURE TO HIGH CONCENTRATIONS: Coughing. Symptoms similar to those listed under ingestion.

Symptoms/effects after skin contact: Symptoms similar to those listed under ingestion.

Symptoms/effects after eye contact: Redness of the eye tissue. Lacrimation.

Symptoms/effects after ingestion: Nausea. Vomiting. AFTER ABSORPTION OF LARGE QUANTITIES: FOLLOWING SYMPTOMS MAY APPEAR LATER: Change in the blood composition. Headache. Feeling of weakness. Abdominal pain. Muscular pain. Central nervous system depression. Dizziness. Mental confusion. Drunkenness. Coordination disorders. Disturbed motor response. Disturbances of consciousness. Visual disturbances. Blindness. Respiratory difficulties. Cramps/uncontrolled muscular contractions.

Chronic symptoms: Red skin. Dry skin. Skin rash/inflammation. Headache. Disturbed tactile sensibility. Visual disturbances. Sleeplessness. Gastrointestinal complaints. Cardiac and blood circulation effects.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

Immediately after ingestion, give a glass of strong drink, beer or wine to drink. Hospitalize at once for treatment with the right antidotes.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Quick-acting ABC powder extinguisher. Quick-acting BC powder extinguisher. Quick-acting class B foam extinguisher. Quick-acting CO2 extinguisher. Class B foam (alcohol-resistant). Water spray if puddle cannot expand.

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Unsuitable Extinguishing Media: Water (quick-acting extinguisher, reel); risk of puddle expansion. Water; risk of puddle expansion.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: DIRECT FIRE HAZARD. Highly flammable liquid and vapor. Gas/vapor flammable with air within explosion limits. INDIRECT FIRE HAZARD. May be ignited by sparks.

Explosion Hazard: DIRECT EXPLOSION HAZARD. Gas/vapor explosive with air within explosion limits. INDIRECT EXPLOSION HAZARD. may be ignited by sparks. Reactions with explosion hazards: see "Reactivity Hazard".

Hazardous decomposition products in case of fire: Upon combustion: CO and CO₂ are formed.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Cool tanks/drums with water spray/remove them into safety. Do not move the load if exposed to heat. Take account of toxic fire-fighting water. Use water moderately and if possible collect or contain it.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO₂).

Other Information: Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: No flames, no sparks. Eliminate all sources of ignition. No naked lights. No smoking. Dike and contain spill.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Gas-tight suit.

Emergency Procedures: Keep upwind. Mark the danger area. Consider evacuation. Close doors and windows of adjacent premises. Stop engines and no smoking. No naked flames or sparks. Spark- and explosion-proof appliances and lighting equipment. Keep containers closed. Wash contaminated clothes.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Stop leak if safe to do so. Ventilate area.

6.2. Environmental Precautions

Prevent soil and water pollution. Prevent spreading in sewers.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Contain released substance, pump into suitable containers. Plug the leak, cut off the supply. Dam up the liquid spill. Try to reduce evaporation. Measure the concentration of the explosive gas-air mixture. Dilute combustible/toxic gases/vapors with water spray. Take account of toxic/corrosive precipitation water. Provide equipment/receptacles with earthing. Do not use compressed air for pumping over spills.

Methods for Cleaning Up: Take up liquid spill into a non combustible material e.g.: sand, earth, vermiculite slaked lime or soda ash. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Damaged/cooled tanks must be emptied. Do not use compressed air for pumping over spills. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

6.4. Reference to Other Sections

No additional information available.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: Handle empty containers with care because residual vapors are flammable.

Precautions for Safe Handling: Use spark-/explosionproof appliances and lighting system. Take precautions against electrostatic charges. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Measure the concentration in the air regularly. Work under local exhaust/ventilation. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Handle uncleaned empty containers as full ones. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Do not use compressed air for pumping over. Keep container tightly closed.

Hygiene Measures: Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Incompatible products: Strong oxidizers. Strong bases. Strong acids. Acid anhydrides. Acid chlorides.

Incompatible Materials: Direct sunlight. Heat sources. Sources of ignition.

Heat-ignition: KEEP SUBSTANCE AWAY FROM: heat sources. ignition sources.

Prohibitions on mixed storage: KEEP SUBSTANCE AWAY FROM: combustible materials. oxidizing agents. strong acids. (strong) bases. halogens. amines. water/moisture.

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Storage area: Store in a cool area. Store in a dry area. Keep container in a well-ventilated place. Fireproof storeroom. Keep locked up. Provide for a tub to collect spills. Provide the tank with earthing. Unauthorized persons are not admitted. Aboveground. Meet the legal requirements.

Special rules on packaging: SPECIAL REQUIREMENTS: closing. dry. clean. correctly labelled. meet the legal requirements. Secure fragile packaging in solid containers.

Packing material: SUITABLE MATERIAL: steel. stainless steel. iron. glass. MATERIAL TO AVOID: lead. aluminum. zinc. polyethylene. PVC

7.3. Specific End Use(s) No additional information available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

Methanol (67-56-1)		
USA ACGIH	ACGIH TWA (ppm)	200 ppm
USA ACGIH	ACGIH STEL (ppm)	250 ppm
Remark	ACGIH	TLV® Basis: Headache; eye dam; dizziness; nausea. Notations: Skin; BEI
USA OSHA	OSHA PEL (TWA) (mg/m ³)	260 mg/m ³
USA OSHA	OSHA Pel (TWA) (ppm)	200 ppm
USA IDEH	IDEH (ppm)	6000 ppm
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	250 mg/m ³
USA NIOSH	NIOSH REL (ppm)	200 ppm
USA NIOSH	NIOSH REL (STEL) (mg/m ³)	325 mg/m ³
USA NIOSH	NIOSH REL (STEL) (ppm)	250 ppm
Remak	NIOSH	Skin

8.2. Exposure Controls

Appropriate Engineering Controls

: Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Keep concentrations well below lower explosion limits.

Personal Protective Equipment

: Safety glasses. Protective clothing. Gloves. Full protective flameproof clothing. Face shield.



Materials for Protective Clothing

: GIVE GOOD RESISTANCE: polyethylene/ethylene vinyl alcohol. styrene-butadiene rubber. viton. GIVE LESS RESISTANCE: chloroprene rubber. chlorinated polyethylene. natural rubber. nitrile rubber/PVC. GIVE POOR RESISTANCE: leather. neoprene. nitrile rubber. polyethylene. PVA. PVC. polyurethane.

Hand Protection

: Protective gloves against chemicals (EN 374).

Eye and Face Protection

: Safety goggles.

Skin and Body Protection

: Head/neck protection. Protective clothing.

Respiratory Protection

: Full face mask with filter type AX at conc. in air > exposure limit. High vapor/gas concentration: self-contained respirator.

Other Information

: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State

: Liquid

Appearance

: Liquid, Colorless

Odor

: Characteristic odor Mild odor Pleasant odor Alcohol odor
Commercial/unpurified substance: irritating/pungent odor

Odor Threshold

: No data available

pH

: No data available

Evaporation Rate

: No data available

Melting Point

: -97.8 °C

Freezing Point

: No data available

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Boiling Point	: 64.7 °C (1013 hPa)
Critical temperature	: 240 °C
Critical pressure	: 79547 hPa
Flash Point	: 9.7 °C (Closed cup, 1013 hPa, EU Method A.9: Flash-Point)
Relative evaporation rate (butyl acetate=1)	: 4.1
Relative evaporation rate (ether=1)	: 6.3
Flammability (solid, gas)	: No data available
Vapor Pressure	: 128 hPa (20 °C)
Vapor Pressure at 50°C	: 552 hPa
Relative Vapor Density at 20°C	: 1.1
Relative Density	: 0.79 – 0.8 (20 °C)
Relative density of saturated gas/air mixture	: 1
Specific gravity / density	: 790 – 800 kg/m ³ (20 °C)
Molecular mass	: 32.04 g/mol
Solubility	: Soluble in water. Soluble in ethanol. Soluble in ether. Soluble in acetone. Soluble in chloroform. Water: 100 g/100ml (20 °C) Ethanol: complete Ether: complete Acetone: complete
Partition Coefficient: N-Octanol/Water	: Log Pow: -0.77 (Experimental value)
Auto-ignition temperature	: 455 °C (1013 hPa, DIN 51794: Self-ignition temperature)
Decomposition temperature	: No data available
Viscosity	: Dynamic - 0.544 – 0.59 mPa·s (25 °C) Kinematic – No data available
Explosion limits	: 5.5 – 36.5 vol %
9.2. Other Information	
Minimum ignition energy	: 0.14 mJ
Saturation concentration	: 166 g/m ³
VOC content	: 100 %
Other properties	: Clear. Hygroscopic. Volatile. Neutral reaction.

SECTION 10: STABILITY AND REACTIVITY

- 10.1. Reactivity:** Violent to explosive reaction with (some) metal powders and with (strong) oxidizers. Violent exothermic reaction with (some) acids and with (some) halogens compounds.
- 10.2. Chemical Stability:** Hygroscopic.
- 10.3. Possibility of Hazardous Reactions:** No additional information available.
- 10.4. Conditions to Avoid:** Direct sunlight, extremely high or low temperatures, heat, hot surfaces, sparks, open flames, incompatible materials, and other ignition sources.
- 10.5. Incompatible Materials:** Strong oxidizers. Strong bases. Strong acids. Peroxides. Acid anhydrides. Acid chlorides
- 10.6. Hazardous Decomposition Products:** Carbon dioxide. Carbon monoxide.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

Acute Toxicity (oral): Toxic if swallowed.

Acute Toxicity (dermal): Toxic if contact with skin.

Acute Toxicity (inhalation): Toxic if inhaled.

Methanol (67-56-1)	
LD50 Oral Rat	1187 – 2769 mg/kg body weight (BASF test, Rat, Male / female, Weight of evidence, Aqueous solution, Oral, 7 day(s))
LD50 Dermal rabbit	17100 mg/kg (Rabbit, Inconclusive, insufficient data, Dermal)
LC50 inhalation rat (mg/l)	128.2 mg/l air (BASF test, 4 h, Rat, Male / female, Experimental value, Inhalation (vapors))
ATE US (oral)	100 mg/kg body weight
ATE US (dermal)	300 mg/kg body weight
ATE US (gases)	700 ppmV/4h

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ATE US (vapors)	3 mg/l/4h
ATE US (dust, mist)	0.5 mg/l/4h

Skin Corrosion/Irritation: Not classified.

Serious Eye Damage/Irritation: Not classified.

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified.

Carcinogenicity: Not classified.

Reproductive Toxicity: Not classified.

Specific Target Organ Toxicity (Single Exposure): Causes damage to organs (liver, kidneys, central nervous system, optic nerve) (Dermal, oral).

Specific Target Organ Toxicity (Repeated Exposure): Not classified.

Aspiration Hazard: Not classified

Viscosity, kinematic: No data available

Potential Adverse human health effects and symptoms: Toxic in contact with skin. Toxic if swallowed. Toxic if inhaled.

Symptoms/Injuries After Inhalation: EXPOSURE TO HIGH CONCENTRATIONS: Coughing. Symptoms similar to those listed under ingestion.

Symptoms/Injuries After Skin Contact: Symptoms similar to those listed under ingestion.

Symptoms/Injuries After Eye Contact: Redness of the eye tissue. Lacrimation.

Symptoms/Injuries After Ingestion: Nausea. Vomiting. AFTER ABSORPTION OF LARGE QUANTITIES: FOLLOWING SYMPTOMS MAY APPEAR LATER: Change in the blood composition. Headache. Feeling of weakness. Abdominal pain. Muscular pain. Central nervous system depression. Dizziness. Mental confusion. Drunkenness. Coordination disorders. Disturbed motor response. Disturbances of consciousness. Visual disturbances. Blindness. Respiratory difficulties. Cramps/uncontrolled muscular contractions.

Chronic Symptoms: Red skin. Dry skin. Skin rash/inflammation. Headache. Disturbed tactile sensibility. Visual disturbances. Sleeplessness. Gastrointestinal complaints. Cardiac and blood circulation effects.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

- Ecology – general** : Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008.
- Ecology – air** : Not included in the list of substances which may contribute to the greenhouse effect (IPCC). Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014). Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).
- Ecology – water** : Not harmful to crustacea. Not harmful to fishes. Groundwater pollutant. Inhibition of activated sludge. Nitrification of activated sludge is inhibited. Not harmful to algae. Not harmful to bacteria.

Methanol (67-56-1)	
LC50 Fish 1	15400 mg/l (EPA 660/3 - 75/009, 96 h, Lepomis macrochirus, Flow-through system, Fresh water, Experimental value, Lethal)
EC50 Daphnia 1	18260 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 96 h, Daphnia magna, Semistatic system, Fresh water, Experimental value, Locomotor effect)
ErC50 (algae)	22000 mg/l (OECD 201: Alga, Growth Inhibition Test, 96 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value)

12.2. Persistence and Degradability

Methanol (67-56-1)	
Persistence and Degradability	Readily biodegradable in the soil. Readily biodegradable in water
Biochemical oxygen demand (BOD)	0.6 – 1.12 g O ₂ /g substance
Chemical oxygen demand (COD)	1.42 g O ₂ /g substance
ThOD	1.5 g O ₂ /g substance

12.3. Bioaccumulative Potential

Methanol (67-56-1)	
BCF fish 1	1 – 4.5 (72 h, Cyprinus carpio, Static system, Fresh water, Experimental value)
Log Pow	-0.77 (Experimental value)
Bioaccumulative Potential	Low potential for bioaccumulation (BCF < 500).

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12.4. Mobility in Soil:

Surface tension	0.023 N/m (20 °C)
Log Koc	0.088 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Highly mobile in soil.

12.5. Other Adverse Effects

Other Information : No additional information available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste Treatment Methods

Waste Disposal Recommendations: Do not discharge into drains or the environment. 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. Incinerate under surveillance with energy recovery. Obtain the consent of pollution control authorities before discharging to wastewater treatment plants.

Additional Information: Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

14.1. In Accordance with DOT

Transport document description : UN1230 Methanol, 3, II
UN-No. (DOT) : UN1230
Proper Shipping Name : Methanol
Transport hazard class(es) : 3 – Class 3 – Flammable and combustible liquid 49 CFR 173. 120
Packing group: : II – Medium Danger
Hazard labels (DOT) : 3 – Flammable liquid



DOT Packaging Non Bulk (49 CFR 173.xxx) : 202
DOT Packing Bulk (49 CFR 173.xxx) : 242
DOT Symbols : D - Proper shipping name for domestic use only, or to and from Canada
DOT Special Provisions (49 CFR 172.102) : 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. T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3) TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.
DOT Packaging Exceptions (49 CFR 173.xxx) : 150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 1L
DOT Quantity Limitations : 50L

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Cargo aircraft only (49 CFR 175.75)

- DOT Vessel Stowage Location** : B - (i) 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; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
- DOT Vessel Stowage Other** : 40 - Stow "clear of living quarters"
- Other Information** : No supplementary information available.

Transportation of Dangerous Goods

- Transport document description** : UN1230 Methanol, 3 (6.1), II
- UN-No. (TDG)** : UN1230
- Proper Shipping Name (Transportation of Dangerous Goods)** : METHANOL
- TDG Primary Hazard Classes** : 3 – Class 3 – Flammable Liquids
- Packing Group** : II – Medium Danger
- TDG Subsidiary Classes** : 6.1
- TDG Special Provisions** : 43 - Despite section 2.1 of Part 2 (Classification), these dangerous goods are assigned to this classification based on human experience.
- Explosive Limit and Limited Quantity Index** : 1L
- Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index** : 1L

14.2. In Accordance with IMDG Not regulated

- Transport document description** : UN1230 Methanol, 3 (6.1), II
- UN-No. (TDG)** : UN1230
- Proper Shipping Name Class (IMDG)** : METHANOL
: 3 – Flammable liquids



- Packing group (IMDG)** : II – substances presenting medium danger
- Subsidiary risks (IMDG)** : 6.1 – Toxic substances
- EmS-No. (1)** : F-E
- EmS-No. (2)** : S-D
- MFAG-No** : 19

14.3. In Accordance with IATA

- Transport document description (IATA)** : UN1230 Methanol, 3 (6.1), II
- UN-No. (IATA)** : UN1230
- Proper Shipping Name Class (IATA)** : METHANOL
: 3 – Flammable liquids



- Packing group (IATA)** : II – Medium Danger

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SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

Methanol (67-56-1)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	5000 lb
SARA Section 311/312 Hazard Classes	Physical hazard - Flammable (gases, aerosols, liquids, or solids) Health hazard - Acute toxicity (any route of exposure) Health hazard - Specific target organ toxicity (single or repeated exposure)

15.2. US State Regulations

Methanol (67-56-1)
U.S. - Massachusetts – Substance List U.S. - New Jersey - Right to Know List U.S. - Pennsylvania - Right to Know List U.S. – Rhode Island – Right to Know List
California Prop 65
WARNING: This product can expose you to Methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov . CRT: Listed date/Developmental toxin

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of Preparation or Latest Revision	: 07/21/2020
Other Information	: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

GHS Full Text Phrases:

H225	Highly flammable liquid and vapor
H301	Toxic if swallowed
H311	Toxic in contact with skin
H331	Toxic if inhaled
H370	Causes damage to organs

NFPA health hazard	: 2 – Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard	: 3 – Liquid 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 normal stable, even under fire conditions.
Hazard rating	
Health	: 2 Moderate Hazard – Temporary or minor injury may occur
Flammability	: 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.
Personal protection	: H – Splash goggles, Gloves, Synthetic apron, Vapor respirator

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.

SDS US (GHS HazCom)