

#### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 12/3/2010 Revision date: 6/14/2023 Supersedes: 5/25/2022 Version: 6.5

#### **SECTION 1: Identification**

#### **1.1. Identification** Product form : Substance Substance name : METHANOL-D4 (D, 99.8%) : METHANOL-D4 (D, 99.8%) Chemical name CAS-No. : 67-56-1 Product code : DLM-24 : CH4O Formula Synonyms : Methyl alcohol Other means of identification : Also applicable to: DLM-24-NAT (D, 99.8%)

#### 1.2. Recommended use and restrictions on use

No additional information available

#### 1.3. Supplier

Cambridge Isotope Laboratories, Inc. 50 Frontage Rd 01810 ANDOVER, MA, 01810 USA T 1-800-322-1174 <u>cilsales@isotope.com</u> - <u>www.isotope.com</u>		
1.4. Emergency telephone number		
For an	4 700 744 5070	

Emergency number

: 1-703-741-5970 Chemtrec 1-800-424-9300 24 hours

#### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

#### **GHS US classification**

Flammable liquids Category 2	H225	Highly flammable liquid and vapor
Acute toxicity (oral) Category 3	H301	Toxic if swallowed
Acute toxicity (dermal) Category 3	H311	Toxic in contact with skin
Acute toxicity (inhalation:vapor) Category 3	H331	Toxic if inhaled
Skin corrosion/irritation Category 2	H315	Causes skin irritation
Serious eye damage/eye irritation Category 2A	H319	Causes serious eye irritation
Specific target organ toxicity (single exposure) Category 1	H370	Causes damage to organs (eyes, kidneys, liver, heart, central
		nervous system) (Dermal, Inhalation, oral)

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

#### **GHS US labeling**

Hazard pictograms (GHS US)

: Danger

Signal word (GHS US)

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Hazard statements (GHS US)	: H225 - Highly flammable liquid and vapor
	H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled
	H315 - Causes skin irritation
	H319 - Causes serious eye irritation
	H370 - Causes damage to organs (eyes, kidneys, liver, heart, central nervous system) (Dermal,
	Inhalation, oral)
Precautionary statements (GHS US)	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No
	smoking. heat, open flames, sparks
	P233 - Keep container tightly closed.
	P240 - Ground/Bond container and receiving equipment.
	P241 - Use explosion-proof electrical, lighting, ventilating equipment.
	P242 - Use only non-sparking tools.
	P243 - Take precautionary measures against static discharge.
	P260 - Do not breathe dust, fume, mist, gas, spray, vapors.
	P261 - Avoid breathing dust, fume, gas, spray, vapors, mist.
	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.
	P280 - Wear protective clothing, protective gloves.
	P301+P310 - If swallowed: Immediately call a doctor, a POISON CENTER.
	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.
	P307+P311 - If exposed: Call a poison center/doctor.
	P311 - Call a doctor, a POISON CENTER.
	P312 - Call a doctor, a POISON CENTER if you feel unwell.
	P321 - Specific treatment (see Hazardous component(s) for labeling on this label).
	P322 - Specific treatment (see Hazard pictograms (CLP) on this label)
	P330 - Rinse mouth.
	P332+P313 - If skin irritation occurs: Get medical advice/attention.
	P337+P313 - If eye irritation persists: Get medical advice/attention.
	P361+P364 - Take off immediately all contaminated clothing and wash it before reuse.
	P362+P364 - Take off contaminated clothing and wash it before reuse.
	P370+P378 - In case of fire: Use alcohol resistant foam, carbon dioxide (CO2), dry extinguishing
	powder to extinguish.
	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/container to hazardous or special waste collection point, in
	accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Name	Product identifier	%	GHS US classification
METHANOL-D4 (D, 99.8%) (Main constituent)	CAS-No.: 67-56-1	100	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:vapour), H331 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 1, H370

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 first aid measures		
First-aid measures general	: If medical advice is needed, have product container or label at hand. Call a physician immediately. Evacuate danger area.	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Call a doctor.	
First-aid measures after skin contact	: Rinse skin with water/shower. Take immediately victim to hospital. Remove/Take off immediatel all contaminated clothing. If skin irritation occurs: Get medical advice/attention.	
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 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. Never give anything by mouth to an unconscious person. Rinse mouth. Call a physician immediately.	
4.2. Most important symptoms and effects (acute and delayed)		
Potential Adverse human health effects and symptoms	: 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. Effects due to Ingestion may include: Headache. Dizziness. Drowsiness. metabolic acidosis. Coma. May be fatal if swallowed and enters airways. If swallowed there is a risk of blindness. Effects on humans. stomach.	
Symptoms/effects after inhalation	: Toxic if inhaled.	
Symptoms/effects after skin contact	: Toxic in contact with skin.	
	: Causes serious eye irritation.	

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures		
5.1. Suitable (and unsuitable) extinguishing	media	
5 5	<ul><li>Dry powder. Dry sand.</li><li>Do not use a heavy water stream.</li></ul>	

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

5.2. Specific hazards arising from the chemical		
Fire hazard Hazardous decomposition products in case of fire	<ul><li>Highly flammable liquid and vapor.</li><li>Toxic fumes may be released.</li></ul>	
5.3. Special protective equipment and precautions for fire-fighters		
Firefighting instructions Protection during firefighting	<ul> <li>Do not enter fire area without proper protective equipment, including respiratory protection.</li> <li>Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. Wear recommended personal protective equipment.</li> </ul>	
Other information	: Use water spray to cool exposed surfaces.	

SECTION 6: Accidental release measures			
6.1. Personal precautions, protective equipm	ent and emergency procedures		
6.1.1. For non-emergency personnel			
Emergency procedures :	Wear respiratory protection. Do not breathe dust, mist, gas, spray, vapors, fume. Avoid contact with skin, eyes and clothing. Ventilate spillage area. Remove all sources of ignition. No open flames, no sparks, and no smoking. Ensure adequate air ventilation. Special attention should be given to low areas/pits where flammable vapors can accumulate.		
6.1.2. 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".		

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Do not allow to enter drains or water courses. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up		
For containment	: Dike and contain spill. For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal.	
Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters. This material and its container must be disposed of in a safe way, and as per local legislation.	
Other information	: Dispose of materials or solid residues at an authorized site.	
6.4. Reference to other sections		

No additional information available

SECTION 7: Handling and stora	age
7.1. Precautions for safe handling	
Precautions for safe handling	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. 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. Do not breathe dust, fume, gas, spray, vapors, mist. Do not get in eyes, on skin, or on clothing. Use only outdoors or in a well-ventilated area.
Hygiene measures	: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Technical measures : Ground/bond container and receiving equipment. Store in a well-ventilated place. Keep container tightly closed. Store locked up.
tightly closed. Store locked up.
Storage conditions : Store at room temperature away from light and moisture.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

METHANOL-D4 (D, 99.8%) (67-56-1)		
USA - ACGIH - Occupational Exposure Limits		
Local name	Methanol	
ACGIH OEL TWA [ppm]	200 ppm Basis: USA. ACGIH Threshold Limit Values (TLV)	
ACGIH OEL STEL [ppm]	250 ppm Basis: USA. ACGIH Threshold Limit Values (TLV)	
Remark (ACGIH)	Headache. Nausea. Dizziness. Eye damage. Substances for which there is a Biological Exposure Index or Indices (see BEI section). Danger of cutaneous absorption.	
ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.	
Regulatory reference	ACGIH 2022	
USA - ACGIH - Biological Exposure Indices		
Local name	METHANOL	
BEI	15 mg/l Urine Basis: ACGIH - Biological Exposure Indices (BEI)	
Remark	End of shift (As soon as possible after exposure ceases)	
Regulatory reference	ACGIH 2022	
USA - OSHA - Occupational Exposure Limits		
OSHA PEL TWA [1]	260 mg/m <sup>3</sup> Remarks: The value in mg/m3 is approximate. Skin notation. Basis: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants - 1910.1000	
OSHA PEL TWA [2]	200 ppm Remarks: Skin notation. Basis: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants - 1910.1000	
OSHA PEL STEL [1]	325 mg/m <sup>3</sup> Remarks: Skin notation. Basis: USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000; Skin. California permissible exposure limits for chemical contaminants (Title 8, Article 107)	
OSHA PEL STEL [2]	250 ppm Remarks: Skin notation. Basis: USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000; Skin. California permissible exposure limits for chemical contaminants (Title 8, Article 107)	
OSHA PEL C	260 mg/m <sup>3</sup> Remarks: Skin. Basis: California permissible exposure limits for chemical contaminants (Title 8, Article 107)	
OSHA PEL C [ppm]	200 ppm Remarks: Skin. Basis: California permissible exposure limits for chemical contaminants (Title 8, Article 107)	
Remark (OSHA)	Component: Methanol CAS-No.: 67-56-1 Value: C Control parameters: 1,000 ppm Remarks: Skin. Basis: California permissible exposure limits for chemical contaminants (Title 8, Article 107)	

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

METHANOL-D4 (D, 99.8%) (67-56-1)			
USA - NIOSH - Occupational Exposure Limits			
NIOSH REL TWA	260 mg/m <sup>3</sup> Remarks: Potential for dermal absorption. Basis: USA. NIOSH Recommended Exposure Limits.		
NIOSH REL TWA [ppm]	200 ppm Remarks: Potential for dermal absorption. Basis: USA. NIOSH Recommended Exposure Limits.		
NIOSH REL STEL	325 mg/m <sup>3</sup> Remarks: Potential for dermal absorption. Basis: USA. NIOSH Recommended Exposure Limits.		
NIOSH REL STEL [ppm]	250 ppm Remarks: Potential for dermal absorption. Basis: USA. NIOSH Recommended Exposure Limits.		
8.2. Appropriate engineering controls			
Appropriate engineering controls	ate engineering controls : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.		
Environmental exposure controls : Avoid release to the environment.			
8.3. Individual protection measures/Personal	I protective equipment		
Personal protective equipment: Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.			
Materials for protective clothing:			
Wear suitable protective clothing and gloves			
Hand protection:			
Wear suitable protective clothing and gloves			
Eye protection:			
Wear eye protection. Chemical goggles or face shield with safety glasses			
Skin and body protection:			
Wear suitable protective clothing, gloves and eye/face protection			
Respiratory protection:			
In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator			
Personal protective equipment symbol(s):			



### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Color	: Colorless
Odor	: Pungent
Odor threshold	: No data available
pН	: No data available

#### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Melting point	: -98 °C (-144 °F)
Freezing point	: No data available
Boiling point	: 64.7 °C (148.5 °F)
Flash point	: 9.7 °C (49.5 °F) - closed cup
Relative evaporation rate (butyl acetate=1)	No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: 130.3 hPa (97.7 mmHg) at 20 °C (68 °F); 169.27 hPa (126.96 mmHg) at 25 °C (77 °F)
Vapor pressure at 50°C	: 546.6 hPa (410 mmHg) at 50 °C (122 °F)
Relative vapor density at 20°C	: 1.11
Relative density	: No data available
Density	: 0.791 g/ml at 25 °C (77 °F)
Molecular mass	: 36.07 g/mol (Labeled)
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: -0.77
Auto-ignition temperature	: 455 °C (851 °F) at 1,013 hPa (760 mmHg)
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: 6 – 36 % (V)
Explosive properties	Product is not explosive.
Oxidizing properties	Non oxidizing material according to EC criteria.

#### 9.2. Other information

No additional information available

#### **SECTION 10: Stability and reactivity**

10.1. Reactivity

Vapors may form flammable mixture with air. Highly flammable liquid and vapor.

#### **10.2. Chemical stability**

Stable if stored under recommended 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

Acid anhydrides. Acid chlorides. Oxidizing agent. Alkali Metal Amides. Reducing agents. Acids.

**10.6. Hazardous decomposition products** 

Carbon oxides (CO, CO2).

SECTION 11: Toxicological ir	formation	
11.1. Information on toxicologica	Il effects	
Acute toxicity (oral) Acute toxicity (dermal)	: Toxic if swallowed. : Toxic in contact with skin.	
Acute toxicity (inhalation)	: Toxic if inhaled.	

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

METHANOL-D4 (D, 99.8%) (67-56-1)		
LD50 oral rat	1187 – 2769 mg/kg	
LD50 dermal rabbit	17100 mg/kg	
LC50 Inhalation - Rat	128.2 mg/l/4h ; 87.6 mg/l - 6 h	
ATE US (oral)	100 mg/kg body weight	
ATE US (dermal)	300 mg/kg body weight	
ATE US (gases)	700 ppmV/4h	
ATE US (vapors)	3 mg/l/4h	
ATE US (dust, mist)	0.5 mg/l/4h	
Additional data	LDLO, oral, human: 143 mg/kg Remarks: Lungs, Thorax, or Respiration: Dyspnea. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.	
Skin corrosion/irritation	: Causes skin irritation.	
Serious eye damage/irritation	: Causes serious eye irritation.	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
METHANOL-D4 (D, 99.8%) (67-56-1)		
National Toxicology Program (NTP) Status	No component of this product present at levels greater than or equal to 0.1% is identifiable as probable, possible, or confirmed human carcinogen by IARC.	
Reproductive toxicity	: Not classified	
STOT-single exposure	: Causes damage to organs (eyes, kidneys, liver, heart, central nervous system) (Dermal, Inhalation, oral).	
STOT-repeated exposure	: Not classified	
Aspiration hazard	: Not classified	
Viscosity, kinematic	: No data available	
Potential Adverse human health effects and symptoms	: 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. Effects due to Ingestion may include: Headache. Dizziness. Drowsiness. metabolic acidosis. Coma. May be fatal if swallowed and enters airways. If swallowed there is a risk of blindness. Effects on humans. stomach.	
Symptoms/effects after inhalation	: Toxic if inhaled.	
Symptoms/effects after skin contact	: Toxic in contact with skin.	
Symptoms/effects after eye contact	: Causes serious eye irritation.	
Symptoms/effects after ingestion	: Toxic if swallowed.	

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - g	eneral
-------------	--------

: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

METHANOL-D4 (D, 99.8%) (67-56-1)	
LC50 - Fish [1]	15400 mg/l
EC50 - Crustacea [1]	1340 mg/l
EC50 - Crustacea [2]	22000 mg/l Growth inhibition EC50 - Scenedesmus capricornutum (fresh water algae) - 96 h
NOEC (acute)	7900 mg/l Oryzias latipes - 200 h

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

12.2. Persistence and degradability		
METHANOL-D4 (D, 99.8%) (67-56-1)		
Biochemical oxygen demand (BOD)	600 – 1200 mg/g	
Chemical oxygen demand (COD)	1420 mg/g	
ThOD	1500 mg/g	
Biodegradation	72 % - rapidly biodegradable aerobic - Exposure time 5 d	
12.3. Bioaccumulative potential		
METHANOL-D4 (D, 99.8%) (67-56-1)		
BCF - Fish [1]	5 mg/l Cyprinus carpio (Carp) - 72 d at 20 °C	

BCF - Fish [1]	5 mg/l Cyprinus carpio (Carp) - 72 d at 20 °C
Bioconcentration factor (BCF REACH)	1
Partition coefficient n-octanol/water (Log Pow)	-0.77

12.4. Mobility in soil

METHANOL-D4 (D, 99.8%) (67-56-1)		
Ecology - soil Not degradable in the soil.		
12.5. Other adverse effects		
Other adverse effects Other information	<ul> <li>Avoid release to the environment.</li> <li>Stability in water: at 19 °C - (83 - 91%) - 72 h. Remarks: Hydrolyses on contact with water. Hydrolyses readily.</li> </ul>	

SECTION 13: Disposal considerations	5
13.1. Disposal methods	
Regional legislation (waste)	: Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations.
Product/Packaging disposal recommendations	: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
Ecology - waste materials	: Dispose of as unused product.

### **SECTION 14: Transport information**

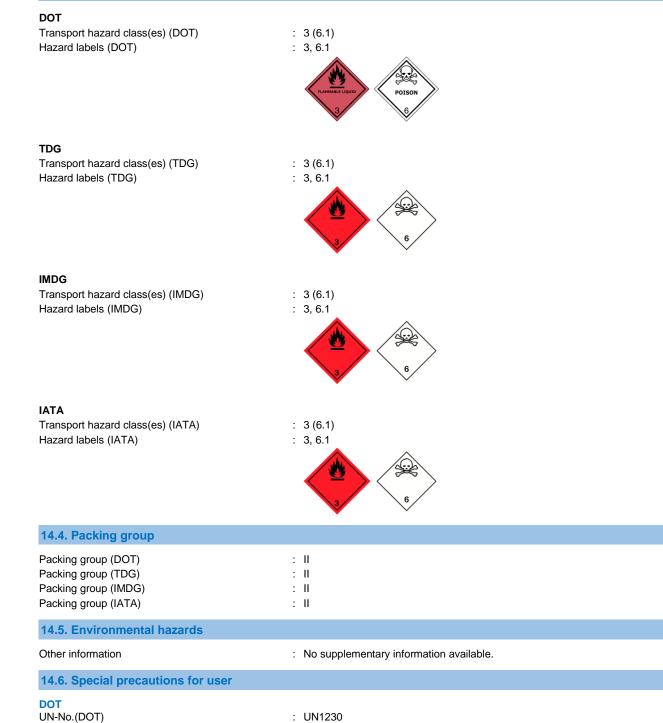
#### In accordance with DOT / TDG / IMDG / IATA

14.1. UN number		
DOT NA No UN-No. (TDG) UN-No. (IMDG) UN-No. (IATA)	: UN1230 : UN1230 : 1230 : 1230	
14.2. UN proper shipping name		
Proper Shipping Name (DOT) Proper Shipping Name (TDG) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	: Methanol : METHANOL : METHANOL : Methanol	

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations





## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

DOT Special Provisions (49 CFR 172.102)	<ul> <li>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.</li> <li>T7 - 4 178.274(d)(2) Normal</li></ul>
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)	
DOT Quantity Limitations Cargo aircraft only (49	: 60 L
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"
TDG	
UN-No. (TDG)	: UN1230
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
Excepted quantities (TDG)	: E2
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	: 1L
Emergency Response Guide (ERG) Number	: 131
WD0	
IMDG Special provision (IMDG)	: 279
Limited quantities (IMDG)	: 1L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP2
EmS-No. (Fire)	: F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS
EmS-No. (Spillage)	: S-D - SPILLAGE SCHEDULE Delta - FLAMMABLE LIQUIDS
Stowage category (IMDG)	
Stowage and handling (IMDG)	: SW2
Flash point (IMDG)	: 12°C c.c.
Properties and observations (IMDG)	: Colourless, volatile liquid. Flashpoint: 12°C c.c. Explosive limits: 6% to 36.5% Miscible with
,	water.Toxic if swallowed; may cause blindness. Avoid skin contact.
MFAG-No	: 131
IATA	
PCA Excepted quantities (IATA)	: E2 · V241
PCA Limited quantities (IATA)	: Y341 : 1L
PCA limited quantity max net quantity (IATA) PCA packing instructions (IATA)	: 352
PCA packing instructions (IATA) PCA max net quantity (IATA)	: 352 : 1L

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

CAO packing instructions (IATA)	:	364
CAO max net quantity (IATA)	:	60L
Special provision (IATA)	:	A113
ERG code (IATA)	:	3L

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

#### Not applicable

### **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

METHANOL-D4 (D, 99.8%) (67-56-1)				
CERCLA RQ	5000 lb			
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting r	equirements of the L	Jnited States SARA Se	ection 302.
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard			
Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):				
Namo	CAS-No	Listing	Commercial	Flags

Name	CAS-No.	Listing	Commercial status	Flags
METHANOL-D4 (D, 99.8%)	67-56-1	Present	Active	

#### **15.2. International regulations**

#### CANADA

METHANOL-D4 (D, 99.8%) (67-56-1)

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

No additional information available

#### **National regulations**

No additional information available

#### 15.3. US State regulations

lotor de diato regulatorio		
METHANOL-D4 (D, 99.8%) (67-56-1)		
U.S California - Proposition 65 - Carcinogens List	No	
U.S California - Proposition 65 - Developmental Toxicity	Yes	
U.S California - Proposition 65 - Reproductive Toxicity - Female	No	
U.S California - Proposition 65 - Reproductive Toxicity - Male	No	
Maximum allowable dose level (MADL)	47000 μg/day (inhalation); 23,000 μg/day (oral)	
State or local regulations	U.S Massachusetts - Right To Know List U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List	

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### **SECTION 16: Other information**

according to Federal Register / Vol. 77, No. 58 / Mon	day, March 26, 2012 / Rules and Regulations
Revision date	: 06/14/2023
Other information	: This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

Full text of H-phrases		
H225	Highly flammable liquid and vapor	
H301	Toxic if swallowed	
H311	Toxic in contact with skin	
H315	Causes skin irritation	
H319	Causes serious eye irritation	
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 - 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	: 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.

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.