

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 12/1/2021 Revision date: 5/4/2023 Supersedes: 1/21/2022 Version: 2.1

SECTION 1: Identification	
1.1. Identification	
Product form Product name Product code	: Mixture : 2H,2H-PERFLUOROOCTANOIC ACID (6:2 FTA) UNLABELED 100 UG/ML IN METHANOL : ULM-10725-S
1.2. Recommended use and restrictions of	n 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	
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) Category 3	H331	Toxic if inhaled
Skin corrosion/irritation Category 2	H315	Causes skin irritation
Serious eye damage/eye irritation Category 2	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)



Signal word (GHS US) Hazard statements (GHS US) : Danger · H225 - Highly flar

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

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Precautionary statements (GHS US)	<ul> <li>H370 - Causes damage to organs (eyes, kidneys, liver, heart, central nervous system) (Dermal, Inhalation, oral)</li> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking, heat, open flames, sparks</li> <li>P233 - Keep container tightly closed.</li> <li>P240 - Ground/Bond container and receiving equipment.</li> <li>P241 - Use explosion-proof electrical, lighting, ventilating equipment.</li> <li>P242 - Use only non-sparking tools.</li> <li>P243 - Take precautionary measures against static discharge.</li> <li>P260 - Do not breathe dust, fume, mist, gas, spray, vapors.</li> <li>P261 - Avoid breathing dust, fume, gas, spray, vapors, mist.</li> <li>P264 - Wash hands, forearms and face thoroughly after handling.</li> <li>P270 - Do not eat, drink or smoke when using this product.</li> <li>P271 - Use only outdoors or in a well-ventilated area.</li> <li>P280 - Wear protective clothing, protective gloves.</li> <li>P301+P310 - If swallowed: Immediately call a doctor, a POISON CENTER.</li> <li>P304+P340 - If in skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</li> <li>P304+P340 - If in haled: Remove person to fresh air and keep comfortable for breathing.</li> <li>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P307+P311 - If exposed: Call a poison center/doctor.</li> <li>P311 - Call a doctor, a POISON CENTER.</li> </ul>
	P312 - Call a doctor, a POISON CENTER if you feel unwell. P321 - Specific treatment (see Hazardous component(s) for labeling on this label).
	<ul> <li>P322 - Specific treatment (see Hazard pictograms (CLP) on this label)</li> <li>P330 - Rinse mouth.</li> <li>P332+P313 - If skin irritation occurs: Get medical advice/attention.</li> <li>P337+P313 - If eye irritation persists: Get medical advice/attention.</li> </ul>
	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

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

## 3.1. Substances

## Not applicable

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## 3.2. Mixtures

Name	Product identifier	%	GHS US classification
100% METHANOL UNLABELED	CAS-No.: 67-56-1	99.987	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
2H,2H-PERFLUOROOCTANOIC ACID (6:2 FTA) UNLABELED	CAS-No.: 53826-12-3	0.013	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335

Full text of hazard classes and H-statements : see section 16

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 immediately 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 effect	ts (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	: Causes damage to organs (Eyes, heart, liver, kidneys, central nervous system, Skin) (in contact with skin, if inhaled, if swallowed).
Symptoms/effects after inhalation	: Toxic if inhaled.
Symptoms/effects after skin contact	: Toxic in contact with skin. Causes skin irritation.
Symptoms/effects after eye contact	· Courses parious avairritation
Symptoms/effects after ingestion	: Causes serious eye irritation. : Toxic if swallowed.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

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

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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 prec	autions 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 m	neasures
6.1. Personal precautions, protective equipment 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 con	ntainment 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	

For further information refer to section 13.

SECTION 7: Handling and stora	age		
7.1. Precautions for safe handling	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.		

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#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures

Storage conditions

- : Ground/bond container and receiving equipment. Store in a well-ventilated place. Keep container tightly closed. Store locked up.
- : Store in freezer (-20°C). Protect from light.

# SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

2H,2H-PERFLUOROOCTANOIC ACID (6:	2 FTA) UNLABELED 100 UG/ML IN METHANOL
USA - ACGIH - Occupational Exposure Limits	5
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.
USA - ACGIH - Biological Exposure Indices	
BEI	15 mg/l Urine Basis: ACGIH - Biological Exposure Indices (BEI)
Remark	End of shift (As soon as possible after exposure ceases)
USA - OSHA - Occupational Exposure Limits	
OSHA PEL TWA [1]	260 mg/m <sup>3</sup> Basis: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants - 1910.1000. California permissible exposure limits for chemical contaminants (Title 8, Article 107)
OSHA PEL TWA [2]	200 ppm Basis: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants - 1910.1000. California permissible exposure limits for chemical contaminants (Title 8, Article 107)
OSHA PEL STEL [1]	325 mg/m <sup>3</sup> Basis: USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000. California permissible exposure limits for chemical contaminants (Title 8, Article 107)
OSHA PEL STEL [2]	250 ppm Basis: USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000. California permissible exposure limits for chemical contaminants (Title 8, Article 107)
OSHA PEL C [ppm]	1000 ppm California permissible exposure limits for chemical contaminants (Title 8, Article 107)
Remark (OSHA)	The value in mg/m3 is approximate. Skin notation.
USA - NIOSH - Occupational Exposure Limits	5
NIOSH REL TWA	260 mg/m <sup>3</sup> Basis: NIOSH Recommended Exposure Limits
NIOSH REL TWA [ppm]	200 ppm Basis: NIOSH Recommended Exposure Limits
NIOSH REL STEL	325 mg/m <sup>3</sup> Basis: NIOSH Recommended Exposure Limits
NIOSH REL STEL [ppm]	250 ppm Basis: NIOSH Recommended Exposure Limits
Remark (NIOSH)	Potential for dermal absorption.

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USA - ACGIH - Occupational Exposure Limits	
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.
USA - ACGIH - Biological Exposure Indices	
BEI	15 mg/l Urine Basis: ACGIH - Biological Exposure Indices (BEI)
Remark	End of shift (As soon as possible after exposure ceases)
USA - OSHA - Occupational Exposure Limits	
OSHA PEL TWA [1]	260 mg/m <sup>3</sup> Basis: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants - 1910.1000. California permissible exposure limits for chemical contaminants (Title 8, Article 107)
OSHA PEL TWA [2]	200 ppm Basis: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants - 1910.1000. California permissible exposure limits for chemical contaminants (Title 8, Article 107)
OSHA PEL STEL [1]	325 mg/m <sup>3</sup> Basis: USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000. California permissible exposure limits for chemical contaminants (Title 8, Article 107)
OSHA PEL STEL [2]	250 ppm Basis: USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000. California permissible exposure limits for chemical contaminants (Title 8, Article 107)
OSHA PEL C [ppm]	1000 ppm California permissible exposure limits for chemical contaminants (Title 8, Article 107
Remark (OSHA)	The value in mg/m3 is approximate. Skin notation.
USA - NIOSH - Occupational Exposure Limits	;
NIOSH REL TWA	260 mg/m <sup>3</sup> Basis: NIOSH Recommended Exposure Limits
NIOSH REL TWA [ppm]	200 ppm Basis: NIOSH Recommended Exposure Limits
NIOSH REL STEL	325 mg/m <sup>3</sup> Basis: NIOSH Recommended Exposure Limits
NIOSH REL STEL [ppm]	250 ppm Basis: NIOSH Recommended Exposure Limits
Remark (NIOSH)	Potential for dermal absorption.
2H,2H-PERFLUOROOCTANOIC ACID (6:	2 FTA) UNLABELED (53826-12-3)
No additional information available	
8.2. Appropriate engineering controls	
sin a propriate on gineering controls	

# Environmental exposure controls : Avoid release to the environment. 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.

smoking and when leaving work.

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# 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
рН	: No data available
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	: 32.04 g/mol
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.

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## 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

See storage and expiration date on CoA.

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 information**

11.1. Information on toxicological effects	
Acute toxicity (dermal)	Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled.
2H,2H-PERFLUOROOCTANOIC ACID (6:2 FTA	) UNLABELED 100 UG/ML IN METHANOL
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)	300.039 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.
100% METHANOL UNLABELED (67-56-1)	
LD50 oral rat	1187 – 2769 mg/kg
LD50 dermal rabbit	17100 mg/kg

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100% METHANOL UNLABELED (67-56-1)	
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 (vapors)	3 mg/l/4h
ATE US (dust, mist)	128.2 mg/l/4h
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
100% METHANOL UNLABELED (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).
100% METHANOL UNLABELED (67-56-1)	
STOT-single exposure	Causes damage to organs (eyes, kidneys, liver, heart, central nervous system) (Dermal, Inhalation, oral).
2H,2H-PERFLUOROOCTANOIC ACID (6:2	FTA) UNLABELED (53826-12-3)
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Potential Adverse human health effects and	: This information is based on our current knowledge and is intended to describe the product for
symptoms Symptoms/effects	<ul> <li>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.</li> <li>Causes damage to organs (Eyes, heart, liver, kidneys, central nervous system, Skin) (in contact</li> </ul>
	with skin, if inhaled, if swallowed).
Symptoms/effects after inhalation	: Toxic if inhaled.
Symptoms/effects after skin contact	: Toxic in contact with skin. Causes skin irritation.
Symptoms/effects after eye contact	Causes serious eye irritation.
Symptoms/effects after ingestion	: Toxic if swallowed.

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

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2H,2H-PERFLUOROOCTANOIC ACID (6:2 FTA) UNLABELED 100 UG/ML IN METHANOL	
LC50 - Fish [1]	15400 mg/l mortality LC50 - Lepomis machrochirus (Bluegill) - 96 h
EC50 - Crustacea [1]	> 10000 mg/l Daphnia magna (Water flea) - 48 h
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
100% METHANOL UNLABELED (67-56-1)	
LC50 - Fish [1]	15400 mg/l mortality LC50 - Lepomis machrochirus (Bluegill) - 96 h
EC50 - Crustacea [1]	> 10000 mg/l Daphnia magna (Water flea) - 48 h
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

## 12.2. Persistence and degradability

2H,2H-PERFLUOROOCTANOIC ACID (6:2 FTA) UNLABELED 100 UG/ML IN METHANOL	
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
100% METHANOL UNLABELED (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

2H,2H-PERFLUOROOCTANOIC ACID (6:2 FTA) UNLABELED 100 UG/ML IN METHANOL		
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	
100% METHANOL UNLABELED (67-56-1)		
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

2H,2H-PERFLUOROOCTANOIC ACID (6:2 FTA) UNLABELED 100 UG/ML IN METHANOL	
Ecology - soil	Not degradable in the soil.

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100% METHANOL UNLABELED (67-56-1)	
Ecology - soil	Not degradable in the soil.
12.5. Other adverse effects	
	Avoid release to the environment. Stability in water: at 19 °C - (83 - 91%) - 72 h. Remarks: Hydrolyses on contact with water. Hydrolyses readily.

SECTION 13: Disposal considerations	
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
14.3. Transport hazard class(es)	
<b>DOT</b> Transport hazard class(es) (DOT) Hazard labels (DOT)	: 3 (6.1) : 3, 6.1 POISON 3 0
<b>TDG</b> Transport hazard class(es) (TDG) Hazard labels (TDG)	: 3 (6.1) : 3, 6.1

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DOT Vessel Stowage Other	section is exceeded. : 40 - Stow "clear of living quarters"
	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
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
CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49	
DOT Packaging Bulk (49 CFR 173.xxx) DOT Quantity Limitations Passenger aircraft/rail	: 242 (49 : 1 L
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
DOT Packaging Exceptions (49 CFR 173.xxx)	F) and 50 C (122 F), respectively. : 150
	Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59
	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)
	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
	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
	T7 - 4 178.274(d)(2) Normal 178.275(d)(3)
	(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.
UN-No.(DOT) DOT Special Provisions (49 CFR 172.102)	: UN1230 : IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite
14.6. Special precautions for user	
Other information	: No supplementary information available.
14.5. Environmental hazards	
Packing group (IMDG) Packing group (IMDG) Packing group (IATA)	- " - " - "
Packing group (DOT) Packing group (TDG)	: II : II
14.4. Packing group	
IATA Transport hazard class(es) (IATA) Hazard labels (IATA)	: 3 (6.1) : 3, 6.1
Hazard labels (IMDG)	: 3, 6.1
IMDG Transport hazard class(es) (IMDG)	: 3 (6.1)

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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       : 1 L         Excepted quantities (TDG)       : E2         Passenger Carrying Road Vehicle or Passenger       : 1 L         Carrying Railway Vehicle Index       : 131         Emergency Response Guide (ERG) Number       : 131         Passenger Carrying Instructions (IMDG)       : 279         Limited quantities (IMDG)       : 1 L         Excepted quantities (IMDG)       : 1 E2         Packing instructions (IMDG)       : 1 BC02         Tank special provisions (IMDG)       : 1 E72         EmS-No. (Fire)       : F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS         Stowage category (IMDG)       : 8 B         Stowage and handing (IMDG)       : 2 V2 C c.c.         Propertises an		
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: 1 LExcepted quantities (TDG): E2Passenger Carrying Road Vehicle or Passenger: 1 LCarrying Railway Vehicle Index:Emergency Response Guide (ERG) Number: 131IMDG:Special provision (IMDG): 279Limited quantities (IMDG): 1 LExcepted quantities (IMDG): 1 LExcepted quantities (IMDG): 1 LExcepted quantities (IMDG): 1 BC02Packing instructions (IMDG): IBC02Tank special provision (IMDG): T72Tank special provision (IMDG): TP2EmS-No. (Fire): F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDSEmS-No. (Spillage): S-D - SPILLAGE SCHEDULE Delta - FLAMMABLE LIQUIDSStowage category (IMDG): BStowage category (IMDG): SW2Flash point (IMDG): 12°C c.c.Properties and observations (IMDG): 131MFAG-No: 131LATA PCA Excepted quantities (IATA): E2		· 11N1220
Classification based on human experience.Explosive Limit and Limited Quantity Index: 1 LExcepted quantities (TDG): E2Passenger Carrying Road Vehicle or Passenger: 1 LCarrying Railway Vehicle Index:Emergency Response Guide (ERG) Number: 1 31IMDG:Special provision (IMDG): 279Limited quantities (IMDG): 1 LExcepted quantities (IMDG): 1 LExcepted quantities (IMDG): 1 LExcepted quantities (IMDG): E2Packing instructions (IMDG): BC02Tank instructions (IMDG): IBC02Tank instructions (IMDG): TP2EmS-No. (Fire): F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDSEmS-No. (Spillage): S-D - SPILLAGE SCHEDULE Delta - FLAMMABLE LIQUIDSStowage category (IMDG): BStowage category (IMDG): 12°C c.c.Properties and observations (IMDG): 12°C c.c.Properties and observations (IMDG): 12°C c.c.Properties and observations (IMDG): 131MFAG-No: 131		
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Passenger Carrying Road Vehicle or Passenger       : 1 L         Carrying Railway Vehicle Index       :         Emergency Response Guide (ERG) Number       : 131         IMDG       :         Special provision (IMDG)       : 279         Limited quantities (IMDG)       : 1 L         Excepted quantities (IMDG)       : 1 L         Packing instructions (IMDG)       : 279         Limited quantities (IMDG)       : 1 L         Packing instructions (IMDG)       : E2         Packing instructions (IMDG)       : BC02         Tank 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)       : B         Stowage and handling (IMDG)       : SW2         Flash point (IMDG)       : 12°C c.c.         Properties and observations (IMDG)       : 131         IMFAG-No       : 131	Explosive Limit and Limited Quantity Index	: 1L
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EmS-No. (Fire):F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDSEmS-No. (Spillage):S-D - SPILLAGE SCHEDULE Delta - FLAMMABLE LIQUIDSStowage category (IMDG):BStowage and handling (IMDG):SW2Flash 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:131IATA PCA Excepted quantities (IATA):E2	. ,	
EmS-No. (Spillage)       : S-D - SPILLAGE SCHEDULE Delta - FLAMMABLE LIQUIDS         Stowage category (IMDG)       : B         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		
Stowage category (IMDG)       : B         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		
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		
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	<b>o o y ( y</b>	
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		-
MFAG-No       : 131         IATA       PCA Excepted quantities (IATA)       : E2		
MFAG-No : 131 IATA PCA Excepted quantities (IATA) : E2	Properties and observations (IMDG)	
IATA PCA Excepted quantities (IATA) : E2	MFAG-No	
PCA Excepted quantities (IATA) : E2		
PCA Limited quantities (IATA) · Y341		: E2
	PCA Limited quantities (IATA)	: Y341
PCA limited quantity max net quantity (IATA) : 1L	PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA) : 352	PCA packing instructions (IATA)	: 352
PCA max net quantity (IATA) : 1L	PCA max net quantity (IATA)	: 1L
CAO packing instructions (IATA) : 364	CAO packing instructions (IATA)	: 364
CAO max net quantity (IATA) : 60L	CAO max net quantity (IATA)	: 60L
Special provision (IATA) : A113	Special provision (IATA)	: A113
ERG code (IATA) : 3L	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

2H,2H-PERFLUOROOCTANOIC ACID (6:2 FTA) UNLABELED 100 UG/ML IN METHANOL		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 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):

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Name	CAS-No.	<b>J</b>	Commercial status	Flags
100% METHANOL UNLABELED	67-56-1	Present	Active	
2H,2H-PERFLUOROOCTANOIC ACID (6:2 FTA) UNLABELED	53826-12-3	Not present	-	

100% METHANOL UNLABELED (67-56-1)			
CERCLA RQ	5000 lb		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.		
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard		

2H,2H-PERFLUOROOCTANOIC ACID (6:2 FTA) UNLABELED (53826-12-3)			
SARA Section 302 Threshold Planning Quantity (TPQ) Not subject to reporting requirements of the United States SARA Section 302.			

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

#### CANADA

#### 2H,2H-PERFLUOROOCTANOIC ACID (6:2 FTA) UNLABELED 100 UG/ML IN METHANOL

Listed on the Canadian DSL (Domestic Substances List)

#### 100% METHANOL UNLABELED (67-56-1)

Listed on the Canadian DSL (Domestic Substances List)

## 2H,2H-PERFLUOROOCTANOIC ACID (6:2 FTA) UNLABELED (53826-12-3)

Not listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

No additional information available

#### **National regulations**

#### 2H,2H-PERFLUOROOCTANOIC ACID (6:2 FTA) UNLABELED 100 UG/ML IN METHANOL

CAUTION: This material is supplied for research and development purposes subject to the R&D exemption under TSCA, 40 CFR 720.36, and must meet the requirements of the exemption, including supervision by a "technically qualified individual" as defined by 40 CFR 720.3(ee). The use of this material for "commercial purposes" as defined by 40 CFR 720.3(r) is not permitted in the United States.

#### 15.3. US State regulations

2H,2H-PERFLUOROOCTANOIC ACID (6:2 FTA) UNLABELED 100 UG/ML IN METHANOL		
U.S California - Proposition 65 - Carcinogens List No		
U.S California - Proposition 65 - Developmental Toxicity	Yes	

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2H,2H-PERFLUOROOCTANOIC ACID (6:2 FTA) UNLABELED 100 UG/ML IN METHANOL		
U.S California - Proposition 65 - Reproductive Toxicity - Female	No	
U.S California - Proposition 65 - Reproductive Toxicity - Male	Νο	
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	

100% METHANOL UNLABELED (67-56-1)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	Proposition 65 -		 Maximum allowable dose level (MADL)
No	Yes	No	No	

Component	State or local regulations
100% METHANOL UNLABELED(67-56-1)	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
2H,2H-PERFLUOROOCTANOIC ACID (6:2 FTA) UNLABELED(53826-12-3)	U.S Pennsylvania - RTK (Right to Know) List; U.S New Jersey - Right to Know Hazardous Substance List

## **SECTION 16: Other information**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date : 05/04/2023

Revision date 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		
H318	Causes serious eye damage		
H319	Causes serious eye irritation		
H331	Toxic if inhaled		
H335	May cause respiratory irritation		
H370	Causes damage to organs		

Safety Data Sheet (SDS), USA

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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.