

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 3/25/2024 Version: 1.1

SECTION 1: Identification

1.1. Identification Product form : Mixture Product name : PFAS 40 Multi-Class Native Standard Solution Product code : ES-5667

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	
Emergency number	: 1-703-741-5970

Chemtrec 1-800-424-9300 24 hours

SECTION 2: Hazard(s) identification

GHS US classification

Flammable liquids Category 2	H225	Highly flammable liquid and vapor
Corrosive to metals Category 1	H290	May be corrosive to metals
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
Full text of H statements : see section 16		

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2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US)

Signal word (GHS US) Hazard statements (GHS US)



- H225 Highly flammable liquid and vapor H290 - May be corrosive to metals 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

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Precautionary statements (GHS US)	 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 - Keep container tightly closed. P234 - Keep only in original container. 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, furme, gas, spray, vapors, mist. P261 - Avoid breathing dust, furme, 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. P303+P351 + If on skin: Wash with plenty of water. P303+P351 + 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. P307+P311 - If exposed: Call a poison center/doctor. P311 - Call a doctor, a POISON CENTER. P312 - Call a doctor, a POISON CENTER. P322 - Specific treatment (see Hazardous component(s) for labeling on this label). P322 - Specific treatment (see Hazardous component(s) for labeling on this label). P332+P313 - If skin irritation occurs: Get medical advice/attention. P341+P344 - Take off immediately all contaminated clothing and wash it before reuse. P32+P343 - If ake off immediately all contaminated clothing and wash it before reuse. P32+P313 - If ske off immediately all contaminated clothing and wash it before reuse. P32+P313 - If ske off immediately all contaminated clothing and wash it before reuse. P32+P313
	P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

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	99.991298	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
SODIUM HYDROXIDE UNLABELED	CAS-No.: 1310-73-2 (Unlabeled)	0.002427	Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Acute 3, H402
2H,2H,3H,3H-PERFLUOROOCTANOIC ACID (5:3 FTCA) UNLABELED (CP 95%)	CAS-No.: 914637-49- 3	0.001579	Skin Corr. 1, H314
2H,2H,3H,3H-PERFLUORODECANOIC ACID (7:3 FTCA) UNLABELED (MIX OF ISOMERS)	CAS-No.: 812-70-4	0.001579	Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335
N-METHYLPERFLUOROOCTANESULFONAMIDOETHANOL (N- MEFOSE) UNLABELED	CAS-No.: 24448-09-7	0.000194	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
N-ETHYLPERFLUOROOCTANESULFONAMIDOETHANOL(N-ETFOSE) UNLABELED	CAS-No.: 1691-99-2	0.000194	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
PERFLUOROBUTYRIC ACID, SODIUM SALT UNLABELED	CAS-No.: 2218-54-4	0.00015	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
2H,2H,3H,3H-PERFLUOROHEXANOIC ACID (3:3 FTCA) UNLABELED	CAS-No.: 356-02-5	0.000097	Skin Corr. 1, H314 Eye Dam. 1, H318
9-CHLOROHEXADECAFLUORO-3-OXANONE-1-SULFONIC ACID, POTASSIUM SALT (9CL-PF3ONS) UNLABELED	CAS-No.: 73606-19-6	0.000094	Acute Tox. 4 (Dermal), H312 Eye Irrit. 2A, H319
1H,1H,2H,2H-PERFLUOROHEXANE SULFONIC ACID (4:2 FTS), SODIUM SALT (UNLABELED) (94% CP)	CAS-No.: 27619-93-8	0.000093	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314
TETRAFLUORO-2-(HEPTAFLUOROPROPOXY)PROPANOIC ACID, SODIUM SALT "GENX" (UNLABELED)	CAS-No.: 67963-75-1	0.000093	Skin Corr. 1A, H314 STOT SE 3, H335
11-CHLOROEICOSAFLUORO-3-OXAUNDECANE-1-SULFONICACID (11CL-PF3OUDS) (F53BMIN) K SALT UNLABELED	CAS-No.: 83329-89-9	0.000093	Not classified
1H,1H,2H,2H-PERFLUOROOCTANE SULFONIC ACID(6:2 FTS) SODIUM SALT (UNLABELED) (CP 95%)	CAS-No.: 27619-94-9	0.000092	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314
1H,1H,2H,2H-PERFLUORODECANE SULFONIC ACID(8:2 FTS) SODIUM SALT (UNLABELED) (97% CP)	CAS-No.: 27619-96-1	0.000091	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Inhalation), H332 Aquatic Chronic 2, H411
DODECAFLUORO-3H-4,8-DIOXANONANOIC ACID (ADONA) UNLABELED CHEMICAL PURITY 90%	CAS-No.: 919005-14- 4	0.000087	Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318

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Name	Product identifier	%	GHS US classification
PERFLUORODECANESULFONATE, POTASSIUM SALT UNLABELED	CAS-No.: 2806-16-8	0.00008	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Inhalation), H332 Aquatic Chronic 2, H411
PERFLUORODODECANESULFONIC ACID, POTASSIUM SALT UNLABELED	CAS-No.: 85187-17-3	0.000079	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Inhalation), H332 Aquatic Chronic 2, H411
PERFLUORONONANESULFONATE, SODIUM SALT UNLABELED	CAS-No.: 98789-57-2	0.000078	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Inhalation), H332 Aquatic Chronic 2, H411
N-METHYLPERFLUOROOCTANESULFONAMIDOACETIC ACID UNLABELED -	CAS-No.: 2355-31-9	0.000075	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
N-METHYLPERFLUOROOCTANESULFONAMIDE UNLABELED	CAS-No.: 31506-32-8 (Unlabeled)	0.000075	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
N-ETHYLPERFLUOROOCTANESULFONAMIDE UNLABELED (90% CHEMICAL PURITY)	CAS-No.: 4151-50-2	0.000075	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 2, H411
PERFLUOROOCTANESULFONAMIDE (PFOSA) UNLABELED (MIX OF ISOMERS)	CAS-No.: NA	0.000075	Aquatic Chronic 4, H413
PERFLUOROPENTANOIC ACID, SODIUM SALT UNLABELED	CAS-No.: 2706-89-0	0.000074	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
PERFLUOROBUTANESULFONATE, POTASSIUM SALT UNLABELED	CAS-No.: 29420-49-3	0.000071	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H336
POTASSIUM PERFLUOROHEXANESULFONATE UNLABELED (MIX OF ISOMERS) (CP 95%)	CAS-No.: 3871-99-6	0.000069	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
PERFLUOROHEXANOIC ACID, SODIUM SALT UNLABELED	CAS-No.: 2923-26-4	0.000068	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
PERFLUORO-3,6-DIOXAHEPTANOIC ACID UNLABELED	CAS-No.: 151772-58- 6	0.000068	Skin Corr. 1A, H314 Eye Dam. 1, H318
PERFLUORO-3-METHOXYPROPANOIC ACID UNLABELED	CAS-No.: 377-73-1	0.000068	Flam. Liq. 3, H226 Skin Corr. 1A, H314 STOT SE 3, H335
PERFLUORO-4-METHOXYBUTANOIC ACID UNLABELED	CAS-No.: 863090-89- 5	0.000068	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335
PERFLUORO(2-ETHOXYETHANE)SULFONIC ACID (PFEESA) UNLABELED	CAS-No.: 113507-82- 7	0.000068	Skin Corr. 1A, H314 Eye Dam. 1, H318
PERFLUOROPENTANESULFONATE, SODIUM SALT UNLABELED 95% CHEMICAL PURITY	CAS-No.: 630402-22- 1	0.000067	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335

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Name	Product identifier	%	GHS US classification
PERFLUORODECANOIC ACID, SODIUM SALT UNLABELED	CAS-No.: 3830-45-3	0.000066	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
PERFLUOROUNDECANOIC ACID, SODIUM SALT UNLABELED	CAS-No.: 60871-96-7	0.000066	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319
PERFLUOROHEPTANESULFONATE, SODIUM SALT UNLABELED	CAS-No.: 21934-50-9	0.000066	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Inhalation:dust,mist), H332 Aquatic Chronic 2, H411
PERFLUORODODECANOIC ACID, SODIUM SALT UNLABELED	CAS-No.: 307-67-5	0.000065	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
Perfluoro-n-heptanoic acid (PFHpA) (unlabeled)	CAS-No.: 375-85-9	0.000063	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318
PERFLUORO-N-OCTANOIC ACID (PFOA) UNLABELED	CAS-No.: 335-67-1	0.000063	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
PERFLUORONONANOIC ACID UNLABELED	CAS-No.: 375-95-1 (Unlabeled)	0.000063	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H336
PERFLUOROTRIDECANOIC ACID UNLABELED (97% CHEMICAL PURITY)	CAS-No.: 72629-94-8	0.000063	Not classified
PERFLUOROTETRADECANOIC ACID UNLABELED (96% CHEMICAL PURITY)	CAS-No.: 376-06-7	0.000063	Not classified
PERFLUOROOCTANESULFONIC ACID (MIX OF ISOMERS) UNLABELED	CAS-No.: 1763-23-1	0.000063	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1A, H314 Carc. 2, H351 Lact., H362 Repr. 1A, H360 STOT RE 1, H372 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
N-ETHYLPERFLUOROOCTANESULFONAMIDOACETIC ACID UNLABELED (MIX OF ISOMERS)	CAS-No.: 2991-50-6	0.000034	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

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

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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 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	: 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	: Causes serious eye irritation.
Symptoms/effects after ingestion	: 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			
5 5	Dry powder. Dry sand.Do not use a heavy water stream.		
5.2. Specific hazards arising from the chemical			
	 Highly flammable liquid and vapor. May be corrosive to metals. Toxic fumes may be released. 		
5.3. Special protective equipment and precautions for fire-fighters			
	 Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. Wear recommended personal protective equipment. 		
Other information	: Use water spray to cool exposed surfaces.		

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SECTION 6: Accidental release measures			
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 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		

For further information refer to section 13.

SECTION 7: Handling and storage		
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.	
7.2. Conditions for safe storage, including any incompatibilities		
Technical measures	: Ground/bond container and receiving equipment. Store in a well-ventilated place. Keep container 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

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PFAS 40 Multi-Class Native Standard Solution USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA [ppm] ACGIH OEL STEL [ppm] Remark (ACGIH) ACGIH chemical category	200 ppm Basis: USA. ACGIH Threshold Limit Values (TLV) 250 ppm Basis: USA. ACGIH Threshold Limit Values (TLV) Headache. Nausea. Dizziness. Eye damage. Substances for which there is a Biological Exposure Index or Indices (see BEI section). Danger of cutaneous absorption. 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.	
ACGIH OEL TWA [ppm] ACGIH OEL STEL [ppm] Remark (ACGIH)	250 ppm Basis: USA. ACGIH Threshold Limit Values (TLV) Headache. Nausea. Dizziness. Eye damage. Substances for which there is a Biological Exposure Index or Indices (see BEI section). Danger of cutaneous absorption. No component of this product present at levels greater than or equal to 0.1% is identifiable as a	
ACGIH OEL STEL [ppm] Remark (ACGIH)	250 ppm Basis: USA. ACGIH Threshold Limit Values (TLV) Headache. Nausea. Dizziness. Eye damage. Substances for which there is a Biological Exposure Index or Indices (see BEI section). Danger of cutaneous absorption. No component of this product present at levels greater than or equal to 0.1% is identifiable as a	
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. No component of this product present at levels greater than or equal to 0.1% is identifiable as a	
	Exposure Index or Indices (see BEI section). Danger of cutaneous absorption. No component of this product present at levels greater than or equal to 0.1% is identifiable as a	
ACGIH chemical category		
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)	
PERFLUOROHEXANOIC ACID, SODIUM SALT	UNLABELED (2923-26-4)	
USA - ACGIH - Occupational Exposure Limits		
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.	
Perfluoro-n-heptanoic acid (PFHpA) (unlabele	d) (375-85-9)	
USA - ACGIH - Occupational Exposure Limits		
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.	
PERFLUORO-N-OCTANOIC ACID (PFOA) UNLABELED (335-67-1)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH chemical category	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.	
PERFLUORONONANOIC ACID UNLABELED (375-95-1 (Unlabeled))		
USA - ACGIH - Occupational Exposure Limits		
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.	
PERFLUORODECANOIC ACID, SODIUM SALT UNLABELED (3830-45-3)		
No additional information available		
PERFLUOROUNDECANOIC ACID, SODIUM SA	ALT UNLABELED (60871-96-7)	
USA - ACGIH - Occupational Exposure Limits		
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.	
PERFLUORODODECANOIC ACID, SODIUM SALT UNLABELED (307-67-5)		
No additional information available		
PERFLUOROHEPTANESULFONATE, SODIUM SALT UNLABELED (21934-50-9)		
USA - ACGIH - Occupational Exposure Limits		
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.	

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PERFLUOROPENTANESULFONATE, SODIUM	I SALT UNLABELED 95% CHEMICAL PURITY (630402-22-1)	
No additional information available		
PERFLUOROTRIDECANOIC ACID UNLABELI	ED (97% CHEMICAL PURITY) (72629-94-8)	
No additional information available		
PERFLUOROTETRADECANOIC ACID UNLAE	BELED (96% CHEMICAL PURITY) (376-06-7)	
No additional information available		
PERFLUOROBUTANESULFONATE, POTASS	IUM SALT UNLABELED (29420-49-3)	
USA - ACGIH - Occupational Exposure Limits		
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.	
POTASSIUM PERFLUOROHEXANESULFONA	TE UNLABELED (MIX OF ISOMERS) (CP 95%) (3871-99-6)	
No additional information available		
PERFLUOROOCTANESULFONIC ACID (MIX (OF ISOMERS) UNLABELED (1763-23-1)	
No additional information available		
1H,1H,2H,2H-PERFLUOROHEXANE SULFON	IC ACID (4:2 FTS), SODIUM SALT (UNLABELED) (94% CP) (27619-93-8)	
No additional information available		
1H,1H,2H,2H-PERFLUOROOCTANE SULFON	IC ACID(6:2 FTS) SODIUM SALT (UNLABELED) (CP 95%) (27619-94-9)	
No additional information available		
1H,1H,2H,2H-PERFLUORODECANE SULFONIC ACID(8:2 FTS) SODIUM SALT (UNLABELED) (97% CP) (27619-96-1)		
No additional information available		
DODECAFLUORO-3H-4,8-DIOXANONANOIC ACID (ADONA) UNLABELED CHEMICAL PURITY 90% (919005-14-4)		
No additional information available		
TETRAFLUORO-2-(HEPTAFLUOROPROPOX	Y)PROPANOIC ACID, SODIUM SALT "GENX" (UNLABELED) (67963-75-1)	
No additional information available		
9-CHLOROHEXADECAFLUORO-3-OXANONE	-1-SULFONIC ACID, POTASSIUM SALT (9CL-PF3ONS) UNLABELED (73606-19-6)	
No additional information available		
11-CHLOROEICOSAFLUORO-3-OXAUNDECANE-1-SULFONICACID (11CL-PF3OUDS) (F53BMIN) K SALT UNLABELED (83329- 89-9)		
No additional information available		
PERFLUOROBUTYRIC ACID, SODIUM SALT UNLABELED (2218-54-4)		
No additional information available		
PERFLUOROPENTANOIC ACID, SODIUM SALT UNLABELED (2706-89-0)		
No additional information available		
N-ETHYLPERFLUOROOCTANESULFONAMIDOACETIC ACID UNLABELED (MIX OF ISOMERS) (2991-50-6)		
No additional information available		
PERFLUORO-3,6-DIOXAHEPTANOIC ACID UNLABELED (151772-58-6)		
No additional information available		

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PERFLUORO-3-METHOXYPROPANOIC ACID	UNLABELED (377-73-1)	
No additional information available		
PERFLUORO-4-METHOXYBUTANOIC ACID	INLABELED (863090-89-5)	
No additional information available		
PERFLUORO(2-ETHOXYETHANE)SULFONIC	ACID (PFEESA) UNLABELED (113507-82-7)	
No additional information available		
N-METHYLPERFLUOROOCTANESULFONAM	IDOACETIC ACID UNLABELED - (2355-31-9)	
No additional information available		
N-METHYLPERFLUOROOCTANESULFONAM	IDE UNLABELED (31506-32-8 (Unlabeled))	
No additional information available		
N-ETHYLPERFLUOROOCTANESULFONAMIC	DE UNLABELED (90% CHEMICAL PURITY) (4151-50-2)	
No additional information available		
PERFLUORONONANESULFONATE, SODIUM	SALT UNLABELED (98789-57-2)	
USA - ACGIH - Occupational Exposure Limits		
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.	
PERFLUORODECANESULFONATE, POTASS	IUM SALT UNLABELED (2806-16-8)	
USA - ACGIH - Occupational Exposure Limits		
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.	
PERFLUORODODECANESULFONIC ACID, P	OTASSIUM SALT UNLABELED (85187-17-3)	
No additional information available		
PERFLUOROOCTANESULFONAMIDE (PFOS	A) UNLABELED (MIX OF ISOMERS) (NA)	
No additional information available		
N-METHYLPERFLUOROOCTANESULFONAMIDOETHANOL (N-MEFOSE) UNLABELED (24448-09-7)		
No additional information available		
N-ETHYLPERFLUOROOCTANESULFONAMIE	OOETHANOL(N-ETFOSE) UNLABELED (1691-99-2)	
No additional information available		
2H,2H,3H,3H-PERFLUOROHEXANOIC ACID (3:3 FTCA) UNLABELED (356-02-5)	
No additional information available		
2H,2H,3H,3H-PERFLUOROOCTANOIC ACID (5:3 FTCA) UNLABELED (CP 95%) (914637-49-3)	
No additional information available		
2H,2H,3H,3H-PERFLUORODECANOIC ACID (7:3 FTCA) UNLABELED (MIX OF ISOMERS) (812-70-4)	
No additional information available		
SODIUM HYDROXIDE UNLABELED (1310-73-	2 (Unlabeled))	
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL C	2 mg/m ³ Upper Respiratory Tract irritation. Eye irritation. Skin irritation.	

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	10-73-2 (Unlabeled))	
USA - OSHA - Occupational Exposure Limits		
OSHA PEL TWA [1]	2 mg/m ³ Upper Respiratory Tract irritation. Eye irritation. Skin irritation.	
USA - NIOSH - Occupational Exposure Limit		
NIOSH REL C	2 mg/m ³ Upper Respiratory Tract irritation. Eye irritation. Skin irritation.	
100% METHANOL UNLABELED (67-56-1)		
USA - ACGIH - Occupational Exposure Limit	ts	
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 ³ 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 ³ 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 Limit	is is a second sec	
NIOSH REL TWA	260 mg/m ³ Basis: NIOSH Recommended Exposure Limits	
NIOSH REL TWA [ppm]	200 ppm Basis: NIOSH Recommended Exposure Limits	
NIOSH REL STEL	325 mg/m ³ Basis: NIOSH Recommended Exposure Limits	
NIOSH REL STEL [ppm]	250 ppm Basis: NIOSH Recommended Exposure Limits	

Appropriate 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.

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8.3. Individual protection measures/Personal 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
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)

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Explosive properties
Oxidizing properties

- : Product is not explosive.
- : 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

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 (oral)	: Toxic if swallowed.
Acute toxicity (dermal)	: Toxic in contact with skin.
Acute toxicity (inhalation)	: Toxic if inhaled.

PFAS 40 Multi-Class Native Standard Solution	
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 (vapors)	3 mg/l/4h
ATE US (dust, mist)	128.2 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.
Perfluoro-n-heptanoic acid (PFHpA) (unlabeled) (375-85-9)	
ATE US (oral)	500 mg/kg body weight

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PERFLUORO-N-OCTANOIC ACID (PFOA) UNLABELED (335-67-1)		
ATE US (oral)	500 mg/kg body weight	
PERFLUORODECANOIC ACID, SODIUM SALT	UNLABELED (3830-45-3)	
ATE US (oral)	500 mg/kg body weight	
PERFLUOROUNDECANOIC ACID, SODIUM SA	ALT UNLABELED (60871-96-7)	
ATE US (oral)	500 mg/kg body weight	
ATE US (dermal)	1100 mg/kg body weight	
ATE US (gases)	4500 ppmV/4h	
ATE US (vapors)	11 mg/l/4h	
ATE US (dust, mist)	1.5 mg/l/4h	
PERFLUOROHEPTANESULFONATE, SODIUM	SALT UNLABELED (21934-50-9)	
ATE US (oral)	100 mg/kg body weight	
ATE US (dust, mist)	1.5 mg/l/4h	
PERFLUOROOCTANESULFONIC ACID (MIX O	oF ISOMERS) UNLABELED (1763-23-1)	
LD50 oral rat	154 mg/kg	
ATE US (oral)	500 mg/kg body weight	
ATE US (gases)	4500 ppmV/4h	
ATE US (vapors)	11 mg/l/4h	
ATE US (dust, mist)	1.5 mg/l/4h	
Additional information	intraperitoneal Rat 100 mg/kg. Oral Rabbit: 77.5 mg/kg (1-31 D preg) Oral rat 19 mg/kg (2-20 D preg). Oral mouse 300 mg/kg (2-21 D preg)	
1H,1H,2H,2H-PERFLUOROHEXANE SULFONIO	C ACID (4:2 FTS), SODIUM SALT (UNLABELED) (94% CP) (27619-93-8)	
ATE US (oral)	500 mg/kg body weight	
1H,1H,2H,2H-PERFLUOROOCTANE SULFONI	C ACID(6:2 FTS) SODIUM SALT (UNLABELED) (CP 95%) (27619-94-9)	
ATE US (oral)	500 mg/kg body weight	
1H,1H,2H,2H-PERFLUORODECANE SULFONI	C ACID(8:2 FTS) SODIUM SALT (UNLABELED) (97% CP) (27619-96-1)	
ATE US (oral)	100 mg/kg body weight	
ATE US (gases)	4500 ppmV/4h	
ATE US (vapors)	11 mg/l/4h	
ATE US (dust, mist)	1.5 mg/l/4h	
9-CHLOROHEXADECAFLUORO-3-OXANONE-	1-SULFONIC ACID, POTASSIUM SALT (9CL-PF3ONS) UNLABELED (73606-19-6)	
ATE US (dermal)	1100 mg/kg body weight	
N-METHYLPERFLUOROOCTANESULFONAMIDE UNLABELED (31506-32-8 (Unlabeled))		
ATE US (oral)	500 mg/kg body weight	
N-ETHYLPERFLUOROOCTANESULFONAMIDE UNLABELED (90% CHEMICAL PURITY) (4151-50-2)		
LD50 oral rat	543 mg/kg	
LD50 dermal rat	1250 mg/kg	

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N-ETHYLPERFLUOROOCTANESULFONAMIDE UNLABELED (90% CHEMICAL PURITY) (4151-50-2)		
ATE US (oral)	500 mg/kg body weight	
ATE US (dermal)	1100 mg/kg body weight	
PERFLUORONONANESULFONATE, SODIUM	SALT UNLABELED (98789-57-2)	
ATE US (oral)	100 mg/kg body weight	
ATE US (gases)	4500 ppmV/4h	
ATE US (vapors)	11 mg/l/4h	
ATE US (dust, mist)	1.5 mg/l/4h	
PERFLUORODECANESULFONATE, POTASSI	UM SALT UNLABELED (2806-16-8)	
ATE US (oral)	100 mg/kg body weight	
ATE US (gases)	4500 ppmV/4h	
ATE US (vapors)	11 mg/l/4h	
ATE US (dust, mist)	1.5 mg/l/4h	
PERFLUORODODECANESULFONIC ACID, PC	TASSIUM SALT UNLABELED (85187-17-3)	
ATE US (oral)	100 mg/kg body weight	
ATE US (gases)	4500 ppmV/4h	
ATE US (vapors)	11 mg/l/4h	
ATE US (dust, mist)	1.5 mg/l/4h	
PERFLUOROOCTANESULFONAMIDE (PFOSA) UNLABELED (MIX OF ISOMERS) (NA)		
LD50 oral rat	> 172 mg/kg	
N-METHYLPERFLUOROOCTANESULFONAMIDOETHANOL (N-MEFOSE) UNLABELED (24448-09-7)		
ATE US (oral)	500 mg/kg body weight	
N-ETHYLPERFLUOROOCTANESULFONAMIDOETHANOL(N-ETFOSE) UNLABELED (1691-99-2)		
ATE US (oral)	500 mg/kg body weight	
100% METHANOL UNLABELED (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 (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.		
PERFLUORO-N-OCTANOIC ACID (PFOA) UNLABELED (335-67-1)		
рН	2.6 at 1g/l	

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PERFLUOROHEPTANESULFONATE, SODIUM	I SALT UNLABELED (21934-50-9)
рН	6 at 100 g/l at 20 °C (68 °F)
PERFLUORONONANESULFONATE, SODIUM	SALT UNLABELED (98789-57-2)
рН	6 at 100 g/l at 20 °C (68 °F)
PERFLUORODECANESULFONATE, POTASSI	UM SALT UNLABELED (2806-16-8)
рН	6 at 100 g/l at 20 °C (68 °F)
SODIUM HYDROXIDE UNLABELED (1310-73-2	2 (Unlabeled))
рН	14 at 50 g/l at 20 °C (68 °F)
Serious eye damage/irritation :	Causes serious eye irritation.
PERFLUORO-N-OCTANOIC ACID (PFOA) UNL	ABELED (335-67-1)
рН	2.6 at 1g/l
PERFLUOROHEPTANESULFONATE, SODIUM	I SALT UNLABELED (21934-50-9)
рН	6 at 100 g/l at 20 °C (68 °F)
PERFLUORONONANESULFONATE, SODIUM	SALT UNLABELED (98789-57-2)
рН	6 at 100 g/l at 20 °C (68 °F)
PERFLUORODECANESULFONATE, POTASSI	UM SALT UNLABELED (2806-16-8)
рН	6 at 100 g/l at 20 °C (68 °F)
SODIUM HYDROXIDE UNLABELED (1310-73-2	2 (Unlabeled))
рН	14 at 50 g/l at 20 °C (68 °F)
	Not classified
	Not classified Not classified
PERFLUORO-N-OCTANOIC ACID (PFOA) UNL	
IARC group	2B - Possibly carcinogenic to humans
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.
, ,	Not classified
- ·	Causes damage to organs.
PERFLUOROHEXANOIC ACID, SODIUM SALT	
STOT-single exposure	May cause respiratory irritation.
PERFLUORONONANOIC ACID UNLABELED (
STOT-single exposure	May cause drowsiness or dizziness.
PERFLUORODECANOIC ACID, SODIUM SALT	
STOT-single exposure	May cause respiratory irritation.
PERFLUORODODECANOIC ACID, SODIUM SA	ALT UNLABELED (307-67-5)
STOT-single exposure	May cause respiratory irritation.

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PERFLUOROPENTANESULFONATE, SODIUM	I SALT UNLABELED 95% CHEMICAL PURITY (630402-22-1)			
STOT-single exposure	May cause respiratory irritation.			
PERFLUOROBUTANESULFONATE, POTASSIUM SALT UNLABELED (29420-49-3)				
STOT-single exposure	May cause drowsiness or dizziness.			
POTASSIUM PERFLUOROHEXANESULFONA	TE UNLABELED (MIX OF ISOMERS) (CP 95%) (3871-99-6)			
STOT-single exposure	May cause respiratory irritation.			
TETRAFLUORO-2-(HEPTAFLUOROPROPOXY)PROPANOIC ACID, SODIUM SALT "GENX" (UNLABELED) (67963-75-1)			
STOT-single exposure	May cause respiratory irritation.			
PERFLUOROBUTYRIC ACID, SODIUM SALT U	JNLABELED (2218-54-4)			
STOT-single exposure	May cause respiratory irritation.			
PERFLUOROPENTANOIC ACID, SODIUM SAL	-T UNLABELED (2706-89-0)			
STOT-single exposure	May cause respiratory irritation.			
N-ETHYLPERFLUOROOCTANESULFONAMID	OACETIC ACID UNLABELED (MIX OF ISOMERS) (2991-50-6)			
STOT-single exposure	May cause respiratory irritation.			
PERFLUORO-3-METHOXYPROPANOIC ACID	UNLABELED (377-73-1)			
STOT-single exposure	May cause respiratory irritation.			
PERFLUORO-4-METHOXYBUTANOIC ACID U	NLABELED (863090-89-5)			
STOT-single exposure	May cause respiratory irritation.			
N-METHYLPERFLUOROOCTANESULFONAM	IDOACETIC ACID UNLABELED - (2355-31-9)			
STOT-single exposure	May cause respiratory irritation.			
N-METHYLPERFLUOROOCTANESULFONAM	IDE UNLABELED (31506-32-8 (Unlabeled))			
STOT-single exposure	May cause respiratory irritation.			
N-METHYLPERFLUOROOCTANESULFONAM	IDOETHANOL (N-MEFOSE) UNLABELED (24448-09-7)			
STOT-single exposure	May cause respiratory irritation.			
N-ETHYLPERFLUOROOCTANESULFONAMID	OETHANOL(N-ETFOSE) UNLABELED (1691-99-2)			
STOT-single exposure	May cause respiratory irritation.			
2H,2H,3H,3H-PERFLUORODECANOIC ACID (7	7:3 FTCA) UNLABELED (MIX OF ISOMERS) (812-70-4)			
STOT-single exposure	May cause respiratory irritation.			
100% METHANOL UNLABELED (67-56-1)				
STOT-single exposure	Causes damage to organs (eyes, kidneys, liver, heart, central nervous system) (Dermal, Inhalation, oral).			
· ·	Not classified			
PERFLUOROOCTANESULFONIC ACID (MIX OF ISOMERS) UNLABELED (1763-23-1)				
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.			
•	Not classified No data available			

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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	: 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.			
PFAS 40 Multi-Class Native Standard Solution	n			
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			
PERFLUORODODECANOIC ACID, SODIUM S	ALT UNLABELED (307-67-5)			
EC50 - Other aquatic organisms [1]	0.0792 mg/l Daphnia magna (Water flea) - 48h			
N-ETHYLPERFLUOROOCTANESULFONAMIDE UNLABELED (90% CHEMICAL PURITY) (4151-50-2)				
LC50 - Fish [1]	8 mg/l Oncorhynchus mykiss (Rainbow trout) - 96 h			
SODIUM HYDROXIDE UNLABELED (1310-73-2 (Unlabeled))				
LC50 - Fish [1]	125 mg/l Gambusia affinis (Mosquito fish) - 96 h			
EC50 - Crustacea [1]	40.38 mg/l Daphnia (water flea) - 48 h - Immobilization			
LC50 - Fish [2]	45.4 mg/kg Oncorhynchus mykiss (rainbow trout) - 96 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			
New York Control of Co				

12.2. Persistence and degradability

PFAS 40 Multi-Class Native Standard Solution		
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	

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SODIUM HYDROXIDE UNLABELED (1310-73-2 (Unlabeled))				
Persistence and degradability	The methods for determining the biological degradability are not applicable to inorganic substances.			
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				
PFAS 40 Multi-Class Native Standard Soluti	on			
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			
PERFLUOROOCTANESULFONIC ACID (MIX OF ISOMERS) UNLABELED (1763-23-1)				
BCF - Fish [1]	56			
N-ETHYLPERFLUOROOCTANESULFONAM	DE UNLABELED (90% CHEMICAL PURITY) (4151-50-2)			
Partition coefficient n-octanol/water (Log Pow)	6.76			
PERFLUOROOCTANESULFONAMIDE (PFOSA) UNLABELED (MIX OF ISOMERS) (NA)				
Partition coefficient n-octanol/water (Log Pow)	5.8			
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				
PFAS 40 Multi-Class Native Standard Solution				
Ecology - soil	Not degradable in the soil.			
PERFLUOROOCTANESULFONIC ACID (MIX OF ISOMERS) UNLABELED (1763-23-1)				

PERFLUOROOCTANESULFONIC ACID (MIX OF ISOMERS) UNLABELED (1763-23-1)			
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	10 x 10^5		
100% METHANOL UNLABELED (67-56-1)			
Ecology - soil Not degradable in the soil.			

12.5. Other adverse effects

Other adverse effects Other information : Avoid release to the environment.

: Stability in water: at 19 °C - (83 - 91%) - 72 h. Remarks: Hydrolyses on contact with water. Hydrolyses readily.

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SECTION 13: Disposal consideration	IS	
13.1. Disposal methods		
Regional legislation (waste)	: Waste materials should be disposed of under conditions which meet Federal, State, and environmental control regulations.	d local
Product/Packaging disposal recommendations	 Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a license professional waste disposal service to dispose of this material. 	censed
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	: UN1230	
UN-No. (TDG) UN-No. (IMDG)	: UN1230 : 1230	
UN-No. (IATA)	: 1230	
14.2. UN proper shipping name		
Proper Shipping Name (DOT)	: Methanol	
Proper Shipping Name (TDG)	: METHANOL : METHANOL	
Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	: METHANOL : Methanol	
14.3. Transport hazard class(es)		
DOT		
Transport hazard class(es) (DOT) Hazard labels (DOT)	: 3 (6.1) : 3, 6.1	
	rammane Loord 3 3 6	
TDG		
Transport hazard class(es) (TDG) Hazard labels (TDG)	: 3 (6.1) : 3, 6.1	
IMDG		
Transport hazard class(es) (IMDG) Hazard labels (IMDG)	: 3 (6.1)	
	: 3, 6.1	
ΙΑΤΑ		
Transport hazard class(es) (IATA)	: 3 (6.1)	
3/25/2024 (Issue date)	US - en	20/34

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Hazard labels (IATA)	: 3, 6.1
14.4. Packing group	
Packing group (DOT) Packing group (TDG) Packing group (IMDG) Packing group (IATA)	: II : II : II
14.5. Environmental hazards	
Other information	: No supplementary information available.
14.6. Special precautions for user	
DOT 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 (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
DOT Packaging Exceptions (49 CFR 173.xxx) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) DOT Vessel Stowage Location	 150 202 242 1 L 60 L 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
DOT Vessel Stowage Other	 passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded. 40 - Stow "clear of living quarters"
TDG UN-No. (TDG) TDG Special Provisions Explosive Limit and Limited Quantity Index Excepted quantities (TDG) Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	 : UN1230 : 43 - Despite section 2.1 of Part 2 (Classification), these dangerous goods are assigned to this classification based on human experience. : 1 L : E2 : 1 L
Emergency Response Guide (ERG) Number IMDG Special provision (IMDG) Limited quantities (IMDG)	: 131 : 279 : 1 L

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

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)	: 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
ΙΑΤΑ	
PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y341
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 352
PCA max net quantity (IATA)	: 1L
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

PFAS 40 Multi-Class Native Standard Solution				
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.			
Commercial status of components according to the Unit	ed States Environmental F	Protection Agency's	Toxic Substances Cor	trol Act (TSCA):
Name	CAS-No.	Listing	Commercial status	Flags
PERFLUOROHEXANOIC ACID, SODIUM SALT UNLABELED	2923-26-4	Present	Inactive	
Perfluoro-n-heptanoic acid (PFHpA) (unlabeled)	375-85-9	Present	Inactive	
PERFLUORO-N-OCTANOIC ACID (PFOA) UNLABELED	335-67-1	Present	Active	S;SP
PERFLUORONONANOIC ACID UNLABELED	375-95-1 (Unlabeled)	Not present	-	
PERFLUORODECANOIC ACID, SODIUM SALT UNLABELED	3830-45-3	Not present	-	
PERFLUOROUNDECANOIC ACID, SODIUM SALT UNLABELED	60871-96-7	Not present	-	
PERFLUORODODECANOIC ACID, SODIUM SALT UNLABELED	307-67-5	Not present	-	

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Name	CAS-No.	Listing	Commercial status	Flags
PERFLUOROHEPTANESULFONATE, SODIUM SALT UNLABELED	21934-50-9	Not present	-	
PERFLUOROPENTANESULFONATE, SODIUM SALT UNLABELED 95% CHEMICAL PURITY	630402-22-1	Not present	-	
PERFLUOROTRIDECANOIC ACID UNLABELED (97% CHEMICAL PURITY)	72629-94-8	Not present	-	
PERFLUOROTETRADECANOIC ACID UNLABELED (96% CHEMICAL PURITY)	376-06-7	Present	Active	S
PERFLUOROBUTANESULFONATE, POTASSIUM SALT UNLABELED	29420-49-3	Present	Active	
POTASSIUM PERFLUOROHEXANESULFONATE UNLABELED (MIX OF ISOMERS) (CP 95%)	3871-99-6	Not present	-	S
PERFLUOROOCTANESULFONIC ACID (MIX OF ISOMERS) UNLABELED	1763-23-1	Present	Active	S
1H,1H,2H,2H-PERFLUOROHEXANE SULFONIC ACID (4:2 FTS), SODIUM SALT (UNLABELED) (94% CP)	27619-93-8	Not present	-	
1H,1H,2H,2H-PERFLUOROOCTANE SULFONIC ACID(6:2 FTS) SODIUM SALT (UNLABELED) (CP 95%)	27619-94-9	Not present	-	
1H,1H,2H,2H-PERFLUORODECANE SULFONIC ACID(8:2 FTS) SODIUM SALT (UNLABELED) (97% CP)	27619-96-1	Not present	-	
DODECAFLUORO-3H-4,8-DIOXANONANOIC ACID (ADONA) UNLABELED CHEMICAL PURITY 90%	919005-14-4	Not present	-	
TETRAFLUORO-2- (HEPTAFLUOROPROPOXY)PROPANOIC ACID, SODIUM SALT "GENX" (UNLABELED)	67963-75-1	Not present	-	
9-CHLOROHEXADECAFLUORO-3-OXANONE-1- SULFONIC ACID, POTASSIUM SALT (9CL-PF3ONS) UNLABELED	73606-19-6	Not present	-	
11-CHLOROEICOSAFLUORO-3-OXAUNDECANE-1- SULFONICACID (11CL-PF3OUDS) (F53BMIN) K SALT UNLABELED	83329-89-9	Not present	-	
PERFLUOROBUTYRIC ACID, SODIUM SALT UNLABELED	2218-54-4	Present	Active	
PERFLUOROPENTANOIC ACID, SODIUM SALT UNLABELED	2706-89-0	Present	Inactive	
N- ETHYLPERFLUOROOCTANESULFONAMIDOACETI C ACID UNLABELED (MIX OF ISOMERS)	2991-50-6	Not present	-	
PERFLUORO-3,6-DIOXAHEPTANOIC ACID UNLABELED	151772-58-6	Not present	-	
PERFLUORO-3-METHOXYPROPANOIC ACID UNLABELED	377-73-1	Not present	-	

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Name	CAS-No.	Listing	Commercial status	Flags
PERFLUORO-4-METHOXYBUTANOIC ACID UNLABELED	863090-89-5	Not present	-	
PERFLUORO(2-ETHOXYETHANE)SULFONIC ACID (PFEESA) UNLABELED	113507-82-7	Not present	-	
N- METHYLPERFLUOROOCTANESULFONAMIDOACE TIC ACID UNLABELED -	2355-31-9	Not present	-	
N-METHYLPERFLUOROOCTANESULFONAMIDE UNLABELED	31506-32-8 (Unlabeled)	Not present	-	
N-ETHYLPERFLUOROOCTANESULFONAMIDE UNLABELED (90% CHEMICAL PURITY)	4151-50-2	Present	Active	S
PERFLUORONONANESULFONATE, SODIUM SALT UNLABELED	98789-57-2	Not present	-	
PERFLUORODECANESULFONATE, POTASSIUM SALT UNLABELED	2806-16-8	Not present	-	
PERFLUORODODECANESULFONIC ACID, POTASSIUM SALT UNLABELED	85187-17-3	Not present	-	
PERFLUOROOCTANESULFONAMIDE (PFOSA) UNLABELED (MIX OF ISOMERS)	NA	Not present	-	
N- METHYLPERFLUOROOCTANESULFONAMIDOETH ANOL (N-MEFOSE) UNLABELED	24448-09-7	Present	Active	S
N- ETHYLPERFLUOROOCTANESULFONAMIDOETHA NOL(N-ETFOSE) UNLABELED	1691-99-2	Present	Active	S
2H,2H,3H,3H-PERFLUOROHEXANOIC ACID (3:3 FTCA) UNLABELED	356-02-5	Present	Active	
2H,2H,3H,3H-PERFLUOROOCTANOIC ACID (5:3 FTCA) UNLABELED (CP 95%)	914637-49-3	Present	Active	
2H,2H,3H,3H-PERFLUORODECANOIC ACID (7:3 FTCA) UNLABELED (MIX OF ISOMERS)	812-70-4	Not present	-	
SODIUM HYDROXIDE UNLABELED	1310-73-2 (Unlabeled)	Not present	-	
100% METHANOL UNLABELED	67-56-1	Present	Active	

PERFLUOROHEXANOIC ACID, SODIUM SALT UNLABELED (2923-26-4)	
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	Immediate (acute) health hazard

Perfluoro-n-heptanoic acid (PFHpA) (unlabeled) (375-85-9)	
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	Immediate (acute) health hazard

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SARA Section 302 Threshold Planning Quantity Not su (TPQ)	bject to reporting requirements of the United States SARA Section 302
	liate (acute) health hazard ed (chronic) health hazard

PERFLUORONONANOIC ACID UNLABELED (375-95-1 (Unlabeled))	
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	Immediate (acute) health hazard

PERFLUORODECANOIC ACID, SODIUM SALT UNLABELED (3830-45-3)	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.

PERFLUOROUNDECANOIC ACID, SODIUM SALT UNLABELED (60871-96-7)	
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	Immediate (acute) health hazard

PERFLUORODODECANOIC ACID, SODIUM SALT UNLABELED (307-67-5)	
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	Immediate (acute) health hazard

PERFLUOROHEPTANESULFONATE, SODIUM SALT UNLABELED (21934-50-9)	
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	Immediate (acute) health hazard

PERFLUOROPENTANESULFONATE, SODIUM SALT UNLABELED 95% CHEMICAL PURITY (630402-22-1)	
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	Immediate (acute) health hazard

PERFLUOROTRIDECANOIC ACID UNLABELED (97% CHEMICAL PURITY) (72629-94-8)	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.

PERFLUOROTETRADECANOIC ACID UNLABELED (96% CHEMICAL PURITY) (376-06-7)	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporing requirements of the United States SARA Section 302.

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PERFLUOROBUTANESULFONATE, POTASSIUM SALT UNLABELED (29420-49-3)		
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	Immediate (acute) health hazard	
POTASSIUM PERFLUOROHEXANESULFONATE UNLABELED (MIX OF ISOMERS) (CP 95%) (3871-99-6)		
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	Immediate (acute) health hazard	
PERFLUOROOCTANESULFONIC ACID (MIX OF ISOMERS) UNLABELED (1763-23-1)		

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	Immediate (acute) health hazard Delayed (chronic) health hazard

1H,1H,2H,2H-PERFLUOROHEXANE SULFONIC ACID (4:2 FTS), SODIUM SALT (UNLABELED) (94% CP) (27619-93-8)		
SARA Section 302 Threshold Pla (TPQ)	anning Quantity	Not subject to reporting requirements of the United States SARA Section 302.

1H,1H,2H,2H-PERFLUOROOCTANE SULFONIC ACID(6:2 FTS) SODIUM SALT (UNLABELED) (CP 95%) (27619-94-9)	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.

1H,1H,2H,2H-PERFLUORODECANE SULFONIC ACID(8:2 FTS) SODIUM SALT (UNLABELED) (97% CP) (27619-96-1)	
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	Immediate (acute) health hazard

DODECAFLUORO-3H-4,8-DIOXANONANOIC ACID (ADONA) UNLABELED CHEMICAL PURITY 90% (919005-14-4)	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.

-	TETRAFLUORO-2-(HEPTAFLUOROPROPOXY)PROPANOIC ACID, SODIUM SALT "GENX" (UNLABELED) (67963-75-1)	
	SARA Section 302 Threshold Planning Quantity TPQ)	Not subject to reporting requirements of the United States SARA Section 302.

9-CHLOROHEXADECAFLUORO-3-OXANONE-1-SULFONIC ACID, POTASSIUM SALT (9CL-PF3ONS) UNLABELED (73606-19-6	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.

11-CHLOROEICOSAFLUORO-3-OXAUNDECANE-1-SULFONICACID (11CL-PF3OUDS) (F53BMIN) K SALT UNLABELED (83329 89-9)	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.

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PERFLUOROBUTYRIC ACID, SODIUM SALT U	JNLABELED (2218-54-4)	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.	
PERFLUOROPENTANOIC ACID, SODIUM SAL		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.	
	OACETIC ACID UNLABELED (MIX OF ISOMERS) (2991-50-6)	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.	
PERFLUORO-3,6-DIOXAHEPTANOIC ACID UN	NI ABELED (151772-58-6)	
SARA Section 302 Threshold Planning Quantity	Not subject to reporting requirements of the United States SARA Section 302.	
(TPQ)		
PERFLUORO-3-METHOXYPROPANOIC ACID		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.	
PERFLUORO-4-METHOXYBUTANOIC ACID U		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.	
PERFLUORO(2-ETHOXYETHANE)SULFONIC		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.	
N-METHYLPERFLUOROOCTANESULFONAM		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.	
N-METHYLPERFLUOROOCTANESULFONAM	IDE UNLABELED (31506-32-8 (Unlabeled))	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.	
	E UNLABELED (90% CHEMICAL PURITY) (4151-50-2)	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.	
PERFLUORONONANESULFONATE, SODIUM		
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	Immediate (acute) health hazard	

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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 Immediate (acute) health hazard PERFLUORODODECANESULFONIC ACID, POTASSIUM SALT UNLABELED (85187-17-3) 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 Immediate (acute) health hazard PERFLUOROOCTANESULFONAMIDE (PFOSA) UNLABELED (MIX OF ISOMERS) (NA) SARA Section 302 Threshold Planning Quantity (TPQ) Not subject to reporting requirements of the United States SARA Section 302. VICP) Not subject to reporting requirements of the United States SARA Section 302. NMETHYLPERFLUOROOCTANESULFONAMIDE (PFOSA) UNLABELED (MIX OF ISOMERS) (NA) SARA Section 302 Threshold Planning Quantity (TPQ) Not subject to reporting requirements of the United States SARA Section 302. NMETHYLPERFLUOROOCTANESULFONAMIDOETHANOL (N-MEFOSE) UNLABELED (24448-09-7) SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302 N=ETHYLPERFLUOROOCTANESULFONAMIDOETHANOL(N-ETFOSE) UNLABELED (1691-99-2) SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302 SARA Section 302 Threshold Planning Quantity (TPQ) SARA 302: No chemicals in this materia	according to Federal Register / Vol. 77, No. 58 / Monday, Marc	ch 26, 2012 / Rules and Regulations	
(TPQ) Immediate (acute) health hazard SARA Section 311/312 Hazard Classes Immediate (acute) health hazard PERFLUORODODECANESULFONIC ACID, POTASSIUM SALT UNLABELED (85187-17-3) Not subject to reporting requirements of the United States SARA Section 302. SARA Section 302 Threshold Planning Quantity Not subject to reporting requirements of the United States SARA Section 302. PERFLUOROOCTANESULFONAMIDE (PFOSA) UNLABELED (MIX OF ISOMERS) (NA) SARA Section 302 Threshold Planning Quantity Not subject to reporting requirements of the United States SARA Section 302. Threshold Planning Quantity Not subject to reporting requirements of the United States SARA Section 302. Not subject to reporting requirements of the United States SARA Section 302. NMETHYLPERFLUOROOCTANESULFONAMIDECTHANOL (N-MEFOSE) UNLABELED (24448-09-7) SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302 N=THYLPERFLUOROOCTANESULFONAMIDECTHANOL (N-ETFOSE) UNLABELED (1691-99-2) SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302 N=THYLPERFLUOROOCTANESULFONAMIDECTHANOL ACID (3:3 FTCA) UNLABELED (356-02-5) SARA Section 302 Threshold Planning Quantity Not subject to reporting requirements of the United States SARA Section 302. SARA Section 302 Threshold Planning Quantity Not subject to reporting requirements of the United States SARA Section 302. SARA Section 302 Thr	PERFLUORODECANESULFONATE, POTASSIUM SALT UNLABELED (2806-16-8)		
PERFLUORODODECANESULFONIC ACID, POTASSIUM SALT UNLABELED (85187-17-3) 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 Immediate (acute) health hazard PERFLUOROOCTANESULFONAMIDE (PFOSA) UNLABELED (MIX OF ISOMERS) (NA) SARA Section 302 Threshold Planning Quantity (TPQ) Not subject to reporting requirements of the United States SARA Section 302. NMETHYLPERFLUOROOCTANESULFONAMIDOETHANOL (N-MEFOSE) UNLABELED (24448-09-7) SARA Section 302 Threshold Planning Quantity (TPQ) SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302 NETHYLPERFLUOROOCTANESULFONAMIDOETHANOL(N-ETFOSE) UNLABELED (1691-99-2) SARA Section 302 Threshold Planning Quantity (TPQ) SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302 NETHYLPERFLUOROOCTANESULFONAMIDOETHANOL(N-ETFOSE) UNLABELED (1691-99-2) SARA Section 302 Threshold Planning Quantity (TPQ) SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302 2H,2H,3H,3H-PERFLUOROHEXANOIC ACID (3:3 FTCA) UNLABELED (356-02-5) SARA Section 302 Threshold Planning Quantity (TPQ) 2H,2H,3H,3H-PERFLUOROOCTANOIC ACID (5:3 FTCA) UNLABELED (CP 95%) (914637-49-3) SARA Section 302. 2H,2H,3H,3H-PERFLUOROOCTANOIC ACID (5:3 FTCA) UNLABELED (CP 95%) (SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302	
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 Immediate (acute) health hazard PEFFLUOROOCTANESULFONAMIDE (PFOSA) UNLABELED (MIX OF ISOMERS) (NA) SARA Section 302 Threshold Planning Quantity (TPQ) Not subject to reporting requirements of the United States SARA Section 302. N-METHYLPERFLUOROOCTANESULFONAMIDECTHANOL (N-MEFOSE) UNLABELED (24448-09-7) SARA Section 302 Threshold Planning Quantity (TPQ) SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302 N-ETHYLPERFLUOROOCTANESULFONAMIDOETHANOL(N-ETFOSE) UNLABELED (1691-99-2) SARA Section 302 Threshold Planning Quantity (TPQ) SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302 NeTHYLPERFLUOROOCTANESULFONAMIDOETHANOL(N-ETFOSE) UNLABELED (1691-99-2) SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302 SARA Section 302 Threshold Planning Quantity (TPQ) SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302 SARA Section 302 Threshold Planning Quantity (TPQ) Not subject to reporting requirements of the United States SARA Section 302. 2H,2H,3H,3H-PERFLUOROOCTANOIC ACID (5:3 FTCA) UNLABELED (CP 95%) (914637-49-3) SARA Section 302. SARA Section 302 Threshold Pla	SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard	
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SARA Section 302 Threshold Planning Quantity (TPQ)	SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.	
SARA Section 302 Threshold Planning Quantity (TPQ)		· · · · · · · · · · · · · · · · · · ·	
(TPQ)	2H,2H,3H,3H-PERFLUOROOCTANOIC ACID	(5:3 FTCA) UNLABELED (CP 95%) (914637-49-3)	
SARA Section 311/312 Hazard Classes Acute Health Hazard	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	Acute Health Hazard	

2H,2H,3H,3H-PERFLUORODECANOIC ACID (7:3 FTCA) UNLABELED (MIX OF ISOMERS) (812-70-4)	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.

SODIUM HYDROXIDE UNLABELED (1310-73-2 (Unlabeled))	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302

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.

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100% METHANOL UNLABELED (67-56-1)		
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard	

15.2. International regulations

CANADA

PFAS 40 Multi-Class Native Standard Solution

Listed on the Canadian DSL (Domestic Substances List)

PERFLUOROHEXANOIC ACID, SODIUM SALT UNLABELED (2923-26-4)

Listed on the Canadian NDSL (Non-Domestic Substances List)

PERFLUORO-N-OCTANOIC ACID (PFOA) UNLABELED (335-67-1)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

PERFLUORODECANOIC ACID, SODIUM SALT UNLABELED (3830-45-3)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

PERFLUOROUNDECANOIC ACID, SODIUM SALT UNLABELED (60871-96-7)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

PERFLUORODODECANOIC ACID, SODIUM SALT UNLABELED (307-67-5)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

PERFLUOROHEPTANESULFONATE, SODIUM SALT UNLABELED (21934-50-9)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

PERFLUOROPENTANESULFONATE, SODIUM SALT UNLABELED 95% CHEMICAL PURITY (630402-22-1)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

PERFLUOROTRIDECANOIC ACID UNLABELED (97% CHEMICAL PURITY) (72629-94-8)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

PERFLUOROTETRADECANOIC ACID UNLABELED (96% CHEMICAL PURITY) (376-06-7)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

PERFLUOROBUTANESULFONATE, POTASSIUM SALT UNLABELED (29420-49-3)

Listed on the Canadian DSL (Domestic Substances List)

POTASSIUM PERFLUOROHEXANESULFONATE UNLABELED (MIX OF ISOMERS) (CP 95%) (3871-99-6)

Listed on the Canadian DSL (Domestic Substances List)

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PERFLUOROOCTANESULFONIC ACID (MIX OF ISOMERS) UNLABELED (1763-23-1)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

1H,1H,2H,2H-PERFLUOROHEXANE SULFONIC ACID (4:2 FTS), SODIUM SALT (UNLABELED) (94% CP) (27619-93-8)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

1H,1H,2H,2H-PERFLUOROOCTANE SULFONIC ACID(6:2 FTS) SODIUM SALT (UNLABELED) (CP 95%) (27619-94-9)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

1H,1H,2H,2H-PERFLUORODECANE SULFONIC ACID(8:2 FTS) SODIUM SALT (UNLABELED) (97% CP) (27619-96-1)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

DODECAFLUORO-3H-4,8-DIOXANONANOIC ACID (ADONA) UNLABELED CHEMICAL PURITY 90% (919005-14-4)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

TETRAFLUORO-2-(HEPTAFLUOROPROPOXY)PROPANOIC ACID, SODIUM SALT "GENX" (UNLABELED) (67963-75-1)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

9-CHLOROHEXADECAFLUORO-3-OXANONE-1-SULFONIC ACID, POTASSIUM SALT (9CL-PF3ONS) UNLABELED (73606-19-6)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

11-CHLOROEICOSAFLUORO-3-OXAUNDECANE-1-SULFONICACID (11CL-PF3OUDS) (F53BMIN) K SALT UNLABELED (83329-89-9)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

PERFLUOROBUTYRIC ACID, SODIUM SALT UNLABELED (2218-54-4)

Listed on the Canadian NDSL (Non-Domestic Substances List)

PERFLUOROPENTANOIC ACID, SODIUM SALT UNLABELED (2706-89-0)

Listed on the Canadian NDSL (Non-Domestic Substances List)

N-ETHYLPERFLUOROOCTANESULFONAMIDOACETIC ACID UNLABELED (MIX OF ISOMERS) (2991-50-6)

Listed on the Canadian DSL (Domestic Substances List)

PERFLUORO-3,6-DIOXAHEPTANOIC ACID UNLABELED (151772-58-6)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

PERFLUORO-3-METHOXYPROPANOIC ACID UNLABELED (377-73-1)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

PERFLUORO-4-METHOXYBUTANOIC ACID UNLABELED (863090-89-5)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

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PERFLUORO(2-ETHOXYETHANE)SULFONIC ACID (PFEESA) UNLABELED (113507-82-7)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

N-METHYLPERFLUOROOCTANESULFONAMIDOACETIC ACID UNLABELED - (2355-31-9)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

N-ETHYLPERFLUOROOCTANESULFONAMIDE UNLABELED (90% CHEMICAL PURITY) (4151-50-2)

Listed on the Canadian DSL (Domestic Substances List)

PERFLUORONONANESULFONATE, SODIUM SALT UNLABELED (98789-57-2)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

PERFLUORODECANESULFONATE, POTASSIUM SALT UNLABELED (2806-16-8)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

PERFLUORODODECANESULFONIC ACID, POTASSIUM SALT UNLABELED (85187-17-3)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

N-METHYLPERFLUOROOCTANESULFONAMIDOETHANOL (N-MEFOSE) UNLABELED (24448-09-7)

Listed on the Canadian DSL (Domestic Substances List)

N-ETHYLPERFLUOROOCTANESULFONAMIDOETHANOL(N-ETFOSE) UNLABELED (1691-99-2)

Listed on the Canadian DSL (Domestic Substances List)

2H,2H,3H,3H-PERFLUOROHEXANOIC ACID (3:3 FTCA) UNLABELED (356-02-5)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

2H,2H,3H,3H-PERFLUOROOCTANOIC ACID (5:3 FTCA) UNLABELED (CP 95%) (914637-49-3)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

2H,2H,3H,3H-PERFLUORODECANOIC ACID (7:3 FTCA) UNLABELED (MIX OF ISOMERS) (812-70-4)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

100% METHANOL UNLABELED (67-56-1)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

PERFLUORO-N-OCTANOIC ACID (PFOA) UNLABELED (335-67-1)

Listed on IARC (International Agency for Research on Cancer)

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PERFLUOROOCTANESULFONIC ACID (MIX OF ISOMERS) UNLABELED (1763-23-1)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

N-ETHYLPERFLUOROOCTANESULFONAMIDE UNLABELED (90% CHEMICAL PURITY) (4151-50-2)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

PERFLUORODODECANESULFONIC ACID, POTASSIUM SALT UNLABELED (85187-17-3)

Listed on TECI (Thailand Existing Chemicals Inventory)

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.

2H,2H,3H,3H-PERFLUOROHEXANOIC ACID (3:3 FTCA) UNLABELED (356-02-5)

Listed on TECI (Thailand Existing Chemicals Inventory)

2H,2H,3H,3H-PERFLUOROOCTANOIC ACID (5:3 FTCA) UNLABELED (CP 95%) (914637-49-3)

Listed on TECI (Thailand Existing Chemicals Inventory)

2H,2H,3H,3H-PERFLUORODECANOIC ACID (7:3 FTCA) UNLABELED (MIX OF ISOMERS) (812-70-4)

Listed on TECI (Thailand Existing Chemicals Inventory)

15.3. US State regulations

PERFLUORO-N-OCTANOIC ACID (PFOA) UNLABELED (335-67-1) U.S. - California -U.S. - California -No significant risk U.S. - California -U.S. - California -Maximum allowable Proposition 65 -Proposition 65 -Proposition 65 -Proposition 65 level (NSRL) dose level (MADL) Carcinogens List **Developmental Toxicity** Reproductive Toxicity Reproductive Toxicity - Female - Male No Yes No No

PERFLUOROOCTANESULFONIC ACID (MIX OF ISOMERS) UNLABELED (1763-23-1)					
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	Proposition 65 -	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
No	Yes	Yes	Yes		

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

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Component	State or local regulations
POTASSIUM PERFLUOROHEXANESULFONATE UNLABELED (MIX OF ISOMERS) (CP 95%)(3871- 99-6)	U.S Pennsylvania - RTK (Right to Know) List; U.S New Jersey - Right to Know Hazardous Substance List
N- ETHYLPERFLUOROOCTANESULFONAMIDOACETI C ACID UNLABELED (MIX OF ISOMERS)(2991-50-6)	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 Massachusetts - Right To Know List; U.S Pennsylvania - RTK (Right to Know) List; U.S New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

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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
H226	Flammable liquid and vapor
H290	May be corrosive to metals
H301	Toxic if swallowed
H302	Harmful if swallowed
H311	Toxic in contact with skin
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H331	Toxic if inhaled
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H351	Suspected of causing cancer
H360	May damage fertility or the unborn child
H362	May cause harm to breast-fed children
H370	Causes damage to organs
H372	Causes damage to organs through prolonged or repeated exposure
H401	Toxic to aquatic life

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Full text of H-phrases	
H402	Harmful to aquatic life
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects
H413	May cause long lasting harmful effects to aquatic life

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.