

PFOS/PFOA EXTRACTION STANDARD MIXTURE (13C8, 99%) 2000 NG/ML IN METHANOL

Safety Data Sheet

 according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
 Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

 Date of issue: 21/03/2018
 Revision date: 17/08/2020
 Supersedes: 23/07/2018
 Version: 1.2

 ES-5571

SECTION 1: Identification of the su	ubstance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixtures
Product name	: PFOS/PFOA EXTRACTION STANDARD MIXTURE (13C8, 99%) 2000 NG/ML IN METHANOL
Product code	: ES-5571
1.2. Relevant identified uses of the su	bstance or mixture and uses advised against
1.2.1. Relevant identified uses	
Main use category	: Professional use
Industrial/Professional use spec	: For professional use only
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the safet	ty data sheet
Cambridge Isotope Laboratories, Inc.	
50 Frontage Road	
Andover, MA 01810 USA	
USA: 1-800-322-1174 Int: 1-978-749-8000	
cilsales@isotope.com www.isotope.com	
Emergency telephone number	
Emergency numbers:	
Chemtrec: 1-800-424-9300 (24 hours)	
International: 1-703-741-5970 (24 hours)	
SECTION 2: Hazards identification	
2.1. Classification of the substance or	mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP]
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. 2 H319	
STOT SE 1 H370	
Full text of hazard classes and H-statements :	see section 16
Classification according to Directive 67/548	3/EEC [DSD] or 1999/45/EC [DPD]
F; R11	
T; R39/23/24/25	
Xi; R36/38 Full text of R-phrases: see section 16	
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GHS-US classification

Flam. Liq. 2	H225
Acute Tox. 3 (Oral)	H301
Acute Tox. 3 (Dermal)	H311
Acute Tox. 3 (Inhalation:vapour)	H331
Skin Irrit. 2	H315
Eye Irrit. 2A	H319
STOT SE 1	H370

Full text of H statements : see section 16

NG/ML IN METHANOL ES-5571

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Adverse physicochemical, human health and environmental effects

Eyes, Kidney, Liver, Heart, Central nervous system. Highly flammable liquid and vapor. Causes damage to organs (eyes, kidneys, liver, heart, central nervous system) (if inhaled, if swallowed, in contact with skin). Toxic in contact with skin. Toxic if inhaled. Toxic if swallowed. Causes skin irritation. Causes serious eye irritation.

Signal word (CLP) :: Danger Hazard statements (CLP) :: PL25S. Highly flammable liguid and vapor HB31-FC31+FK31-FK31-FC31C incomparent with skin or if inhaled HB31-C-auses scinus are irritation HB31-C-auses scinus are irritation Precautionary statements (CLP) :: PL25S. Highly flammable siguid and vapor HB31-C-auses scinus are irritation HB31-C-auses scinus are irritation Precautionary statements (CLP) :: PL26. Highly flammable siguid and vapor HB31-C-auses scinus are irritation HB31-C-auses scinus are irritation Precautionary statements (CLP) :: PL31-C-auses damage to organs (sees, heart, kidneys, liver, central nervous system) (in contact with skin, if inhaled, if sevallowed). Precautionary statements (CLP) :: PL31-C-auses damage to organs (sees, heart, kidneys, liver, central nervous system) (in contact with skin, if inhaled, if sevallowed). P233-Keep container tightly closed. :: PL24 - Ground/Bodo container and receiving equipment. P241 - Use explosion-proof electrical, lighting, ventilating equipment. : PL24 - Ground/Bodo container and receiving equipment. P241 - Use explosion-proof electrical, lighting, ventilating equipment. : PL24 - Ground/Bodo container and receiving equipment. P271 - Do not eta. : enso : enso : enso Signal word (GHS-US) :: Danger : Signal word (GHS-US) Hazard statements (GHS-US) : Danger H225 - Highly flarmmable	2.2. Label elements	
Signal word (CLP) : Danger Hazard statements (CLP) : Danger Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition ources. Not service and the statements (CLP) Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Not service and the statements (CLP) Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Not service and the statements (CLP) Precautionary statements (CHS-US) : Danger Eds-US labeling : Danger if Hazard statements (GHS-US) : Danger if : Danger if : Dange	Labeling according to Regulation (EC) N	lo. 1272/2008 [CLP]
Signal word (CLP) : Danger Hazard statements (CLP) : H225 - Highly flammable liquid and vapor H226 - Causes skin intration H31 + H31 + H331 - Toxic if swallowed, in contact with skin or if inhaled H316 - Causes skin intration H31 - Causes skin intration H317 - Causes skin intration H31 - Cause skin intration H32 - Cause series serinstat static discharge.	Hazard pictograms (CLP)	
Hazard statements (CLP) : H225 - Highly flammable liquid and vapor H301+H31 -H31 - Toxic f sevallowed, in contact with skin or if inhaled H316 - Causes serious egv irritation H319 - Causes serious egv irritation H316 - Causes serious egv irritation H319 - Causes serious egv irritation H370 - Causes serious egv irritation H370 - Causes damage to organs (eyes, heart, kidneys, liver, central nervous system) (in contact with skin, if inhaled, staulowed) Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 - Keep container tightly closed. : Reg. spray. P240 - Ground/bond container and receiving equipment. P241 - Use onlyboard container and receiving equipment. P241 - Use onlyboard were using this product. P271 - Do not eta. P271 - Do not eta. GHS-US labeling Hazard pictograms (GHS-US) : Danger Hazard statements (GHS-US) : : Danger Hazard statements (GHS-US) : : H235 - Highly flammable liquid and vapor : : : : : : : : : <		GHS02 GHS08 GHS06
H301+H311+H31 - Toxic if swallowed, in contact with skin or if inhaled H315 - Causes skin irritation H316 - Causes skin irritation H317 - Causes serious eye irritation H317 - Causes serious eye irritation H317 - Causes admage to corgans (eyes, heart, kidneys, liver, central nervous system) (in contact with skin, if inhaled, if svallowed) P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 - Keep container tightly closed. P240 - Step away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P243 - Vise Aveplosion-proof decircial. lightly, closed. P244 - Vise Aveplosion-proof decircial. lightly, closed. P244 - Vise Ands, forcearmis and face throughly after handling. P271 - Lise only outdoors or in a well-ventilated area. GHS-US labeling Hazard pictograms (GHS-US) Hazard statements (GHS-US) H225 - Highty flammable liquid and vapor H316 - Causes skin irritation H317 - Causes demage to organs (eyes, kidneys, liver, heart, central nervous system) (Dermatination and statements (GHS-US) Precautionary statements (GHS-US) Precautionary statements (GHS-US) Precautionary statements (GHS-US) P20 - Keep away from heat, open flames, sparks No smoking. <tr< td=""><td>Signal word (CLP)</td><td>5</td></tr<>	Signal word (CLP)	5
Signal word (GHS-US) ::::::::::::::::::::::::::::::::::::	Hazard statements (CLP)	H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled H315 - Causes skin irritation H319 - Causes serious eye irritation H370 - Causes damage to organs (eyes, heart, kidneys, liver, central nervous system) (in
Hazard pictograms (GHS-US) : : : : : : : : : :	Precautionary statements (CLP)	 P233 - Keep container tightly closed. P240 - Ground/bond container and receiving equipment. P241 - Use explosion-proof electrical, lighting, ventilating equipment P260 - Do not breathe dust, mist, vapors, fume, gas, spray. P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product.
Kingson Kingson Kingson Signal word (GHS-US) : Danger Hazard statements (GHS-US) : H225 - Highly flammable liquid and vapor H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled H315 - Causes skin irritation H319 - Causes serious eye irritation H319 - Causes damage to organs (eyes, kidneys, liver, heart, central nervous system) (Derma Inhalation, oral) Precautionary statements (GHS-US) : P210 - Keep away from heat, open flames, sparks No smoking. P233 - Keep container tightly closed. P240 - Ground/Bond container and receiving equipment P241 - Use explosion-proof electrical, lighting, ventilating equipment P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P260 - Do not breathing dust, fume, gas, spray, vapors. P261 - Avoid breathing dust, fume, gas, spray, vapors. P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not etat, 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 acotor, a POISON CENTER P302+P352 - If on skin: Wash with pleny of water P303+P361+P335 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P331 - I fi knaled: Remove person to fresh air and keep comfortable for breathing P307+P311 - If exposed: Call a poison center/doctor	GHS-US labeling	
Signal word (GHS-US) : Danger Hazard statements (GHS-US) : H225 - Highly flammable liquid and vapor H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled H315 - Causes stin irritation H319 - Causes stain irritation H319 - Causes stain or graps (eyes, kidneys, liver, heart, central nervous system) (Derma Inhalation, oral) Precautionary statements (GHS-US) : P210 - Keep away from heat, open flames, sparks No smoking. P233 - Keep container tightly closed. P240 - Ground/Bond container and receiving equipment P241 - Use explosion-proof electrical, lighting, ventilating equipment P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P260 - Do not breathe dust, fume, gas, spray, vapors, P261 - Avoid breathing dust, fume, gas, spray, vapors, P261 - Avoid breathing dust, fume, gas, spray, vapors, P261 - 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+P333 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove conta lenses, if present and easy to do. Continue rinsing P305+P351+P338 - If in eyes: Call a poison center/doctor	Hazard pictograms (GHS-US)	
 Hazard statements (GHS-US) H225 - Highly flammable liquid and vapor H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled H315 - Causes skin irritation H319 - Causes service seve irritation H370 - Causes damage to organs (eyes, kidneys, liver, heart, central nervous system) (Derma Inhalation, oral) P210 - Keep away from heat, open flames, sparks No smoking. P233 - Keep container tightly closed. P240 - Ground/Bond container and receiving equipment P242 - Use explosion-proof electrical, lighting, ventilating equipment P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P260 - Do not breathe dust, fume, mist, gas, spray, vapors, 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: (mmediately call a doctor, a POISON CENTER P303+P361+P352 - If on skin: (varsh inhaled: Remove person to fresh air and keep comfortable for breathing P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove conta lenses, if present and easy to do. Continue rinsing P307+P311 - If exposed: Call a poison center/doctor 	Signal word (GHS-US)	_
Precautionary statements (GHS-US) : P210 - Keep away from heat, open flames, sparks No smoking. P233 - Keep container tightly closed. P240 - Ground/Bond container and receiving equipment P241 - Use explosion-proof electrical, lighting, ventilating equipment P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P260 - Do not breathe dust, fume, mist, gas, spray, vapors. P261 - Avoid breathing dust, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective clothing, protective gloves. P301+P310 - If swallowed: Immediately call a doctor, a POISON CENTER P302+P352 - If on skin: Wash with plenty of water P303+P361+P333 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove conta lenses, if present and easy to do. Continue rinsing P307+P311 - If exposed: Call a poison center/doctor	Hazard statements (GHS-US)	 H225 - Highly flammable liquid and vapor H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled H315 - Causes skin irritation H319 - Causes serious eye irritation H370 - Causes damage to organs (eyes, kidneys, liver, heart, central nervous system) (Dermal
	Precautionary statements (GHS-US)	 P233 - Keep container tightly closed. P240 - Ground/Bond container and receiving equipment P241 - Use explosion-proof electrical, lighting, ventilating equipment P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P260 - Do not breathe dust, fume, mist, gas, spray, vapors. P261 - Avoid breathing dust, fume, gas, spray, vapors, mist. P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective clothing, protective gloves. P301+P310 - If swallowed: Immediately call a doctor, a POISON CENTER P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
	18/08/2020	EN (English LIS) 2/4.4

NG/ML IN METHANOL ES-5571

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

- P311 Call a doctor, a POISON CENTER
- P312 Call a doctor, a POISON CENTER if you feel unwell
- P321 Specific treatment (see Hazardous component(s) for labeling on this label)
- P322 Specific treatment (see Hazard pictograms (CLP) on this label)
- P330 Rinse mouth.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P361+P364 Take off immediately all contaminated clothing and wash it before reuse.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P370+P378 In case of fire: Use alcohol resistant foam, carbon dioxide (CO2), dry
- extinguishing powder to extinguish.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed. P403+P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. **Other hazards**

PBT: not relevant - no registration required

SECTION 3: Composition/Information on ingredients

3.1. **Substances**

Not applicable

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Name	Product identifier	%	Classification according to Directive 67/548/EEC
100% METHANOL UNLABELED	(CAS-No.) 67-56-1 (EC-No.) 200-659-6 (EC Index-No.) 603-001-00-X (REACH-no) 01-2119433307-44	99.99949	F; R11 T; R39/23/24/25 Xi; R36/38
PERFLUORO-N-OCTANOIC ACID (PFOA) (13C8, 99%)	(CAS-No.) 1350614-84-4 (EC-No.) 206-397-9 (Unlabeled)	0.000253	Carc.Cat.3; R40 Repr.Cat.1; R60 Repr.Cat.1; R61 Repr.Cat.3; R62 Repr.Cat.3; R63 Xn; R20/22 Xi; R41 R48
SODIUM PERFLUORO-1-OCTANESULFONATE (PFOS) (13C8, 99%)	(CAS-No.) 4021-47-0 (Unlabeled)	0.000253	T; R23/25 Xn; R22 C; R34
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
100% METHANOL UNLABELED	(CAS-No.) 67-56-1 (EC-No.) 200-659-6 (EC Index-No.) 603-001-00-X (REACH-no) 01-2119433307-44	99.99949	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. 2, H319 STOT SE 1, H370
PERFLUORO-N-OCTANOIC ACID (PFOA) (13C8, 99%)	(CAS-No.) 1350614-84-4 (EC-No.) 206-397-9 (Unlabeled)	0.000253	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Eye Dam. 1, H318 Carc. 2, H351 Lact., H362 Repr. 1A, H360 STOT RE 1, H372
SODIUM PERFLUORO-1-OCTANESULFONATE (PFOS) (13C8, 99%)	(CAS-No.) 4021-47-0 (Unlabeled)	0.000253	Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314
Name	Product identifier	%	GHS-US classification
100% METHANOL UNLABELED	(CAS-No.) 67-56-1	99.99949	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

NG/ML IN METHANOL ES-5571

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Name	Product identifier	%	GHS-US classification
PERFLUORO-N-OCTANOIC ACID (PFOA) (13C8, 99%)	(CAS-No.) 1350614-84-4	0.000253	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Eye Dam. 1, H318 Carc. 2, H351 Lact., H362 Repr. 1A, H360 STOT RE 1, H372
SODIUM PERFLUORO-1-OCTANESULFONATE (PFOS) (13C8, 99%)	(CAS-No.) 4021-47-0 (Unlabeled)	0.000253	Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314 Aquatic Acute 2, H401

Full text of R- and H- phrases: 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 ef	fects, both acute and delayed
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. Indication of any immediate medi	cal attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Dry powder. Dry sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the	
Fire hazard	: Highly flammable liquid and vapor.
Reactivity	: Vapors may form flammable mixture with air. Highly flammable liquid and vapor.
5.3. Advice for firefighters	
Firefighting instructions	: Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. Wear recommended personal protective equipment.
Other information	: Use water spray to cool exposed surfaces.
SECTION 6: Accidental release me	asures
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	
•	not allow to enter drains or water courses. Avoid release to the environment.

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

NG/ML IN METHANOL ES-5571

Safety Data Sheet

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6.3. Methods and material for containme	
For containment	: Dike and contain spill.
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, includin	ng 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.

7.3. Specific end use(s)

No additional information available

.1. Control parameters		
PFOS/PFOA EXTRACTION S	TANDARD MIXTURE (13C8, 99%) 2000 NG	G/ML IN METHANOL
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	200.00000000 ppm Basis: USA. ACGIH Threshold Limit Values (TLV)
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	250 ppm Basis: USA. ACGIH Threshold Limit Values (TLV)
Italy - Portugal - USA ACGIH	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.
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	260 mg/m ³ Basis: NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (TWA) (ppm)	200 ppm Basis: NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (STEL) (mg/m ³)	325 mg/m ³ Basis: NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (STEL) (ppm)	250 ppm Basis: NIOSH Recommended Exposure Limits
USA NIOSH	Remark (NIOSH)	Potential for dermal absorption.
USA OSHA	OSHA PEL (TWA) (mg/m³)	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)
USA OSHA	OSHA PEL (TWA) (ppm)	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)
USA OSHA	OSHA PEL (STEL) (mg/m ³)	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)

NG/ML IN METHANOL ES-5571

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

		JRE (13C8, 99%) 2000 NG/ML		
USA OSHA	OSHA PEL (STE	EL) (ppm)	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)	
USA OSHA	OSHA PEL (Ceil	ing) (ppm)	1000 ppm California permissible exposure limits for chemical contaminants (Title 8, Article 107)	
USA OSHA	Remark (OSHA)		The value in mg/m3 is approximate. Skin notation.	
100% METHANOL UNLABEL	.ED (67-56-1)			
Italy - Portugal - USA ACGIH		em)	200.00000000 ppm Basis: USA. ACGIH Threshold Limit Values (TLV)	
Italy - Portugal - USA ACGIH	ACGIH STEL (p	om)	250 ppm Basis: USA. ACGIH Threshold Limit Values (TLV)	
Italy - Portugal - USA ACGIH	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.	
USA NIOSH	NIOSH REL (TW	/A) (mg/m³)	260 mg/m ³ Basis: NIOSH Recommended Exposure Limits	
USA NIOSH	NIOSH REL (TW	/A) (ppm)	200 ppm Basis: NIOSH Recommended Exposure Limits	
USA NIOSH	NIOSH REL (ST	EL) (mg/m³)	325 mg/m ³ Basis: NIOSH Recommended Exposure Limits	
USA NIOSH	NIOSH REL (ST	EL) (ppm)	250 ppm Basis: NIOSH Recommended Exposure Limits	
USA NIOSH	Remark (NIOSH)	Potential for dermal absorption.	
USA OSHA	OSHA PEL (TWA) (mg/m³)		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)	
USA OSHA	OSHA PEL (TWA) (ppm)		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)	
USA OSHA	OSHA PEL (STEL) (mg/m ³)		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)	
USA OSHA	OSHA PEL (STE	EL) (ppm)	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)	
USA OSHA	OSHA PEL (Ceil	ing) (ppm)	1000 ppm California permissible exposure limits for chemical contaminants (Title 8, Article 107)	
USA OSHA	Remark (OSHA)		The value in mg/m3 is approximate. Skin notation.	
		JRE (13C8, 99%) 2000 NG/ML		
DNEL/DMEL (Workers)		10 ma/ka had		
	- systemic effects, dermal 40 mg/kg bodyweight/day			
		260 mg/m ³		
		260 mg/cm ² 40 mg/kg bodyweight/day		
Long-term - systemic effects, dermal Long-term - local effects, dermal		40 mg/kg bodyweight/day 260 mg/cm ²		
Long-term - local effects, dermal Long-term - local effects, inhalation		260 mg/cm ² 260 mg/m ³		
DNEL/DMEL (General populat		200 mg/m-		
, , ,	,	8 ma/ka body woight		
Acute - systemic effects, derm		8 mg/kg body weight		
Acute - systemic effects, inhala	auon	50 mg/m ³		
Acute - systemic effects, oral		8 mg/kg body weight		
Acute - local effects, inhalation	,	50 mg/m ³		

NG/ML IN METHANOL ES-5571

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

PFOS/PFOA EXTRACTION STANDARD MIXTURE (13C8, 99%) 2000 NG/ML IN METHANOL		
Long-term - systemic effects, inhalation	50 mg/m ³	
Long-term - systemic effects, dermal	8 mg/kg bodyweight/day	
Long-term - local effects, inhalation	50 mg/m ³	
PNEC (Water)		
PNEC aqua (freshwater)	154 mg/l	
PNEC aqua (marine water)	15.4 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	570.4 mg/kg dwt	
PNEC (Soil)		
PNEC soil	23.5 mg/kg dwt	
PNEC (STP)		
PNEC sewage treatment plant	100 mg/kg	

8.2. **Exposure controls**

Appropriate engineering controls

: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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.
Environmental exposure controls	: Avoid release to the environment.

SECTION 9: Physical and chemical properties

18/08/2020	EN (English US)	7/14
Viscosity, kinematic	: No data available	
Log Kow	: No data available	
Log Pow	: -0.77	
Solubility	: Water: Completely miscible	
Specific gravity / density	: 0.791 g/ml at 25 °C (77 °F)	
Relative density	: No data available	
Relative vapor density at 20 °C	: 1.11	
Vapor pressure at 50 °C	: 546.6 hPa (410 mmHg) at 50 °C (122 °F)	
Vapor pressure	 130.3 hPa (97.7 mmHg) at 20 °C (68 °F); 169.27 hPa (126.96 mmHg) at 25 °C (77 °F) 	
Flammability (solid, gas)	: No data available	
Decomposition temperature	: No data available	
Auto-ignition temperature	: 455 °C (851 °F) at 1,013 hPa (760 mmHg)	
Flash point	: 9.7 °C (49.5 °F) - closed cup	
Boiling point	: 64.7 °C (148.5 °F)	
Freezing point	: No data available	
Melting point	: -98 °C (-144 °F)	
Relative evaporation rate (butyl acetate=1)	: No data available	
рН	: No data available	
Odor threshold	: No data available	
Odor	: Pungent	
Color	: Colorless	
Molecular mass	: 32.04 g/mol	
Appearance	: Liquid	
Physical state	: Liquid	
The properties listed below are for the solvent, the main com		
9.1. Information on basic physical an	d chemical properties	

NG/ML IN METHANOL ES-5571

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 2

/iscosity, dynamic	: No data available
Explosive properties	: Product is not explosive.
Dxidizing properties	: Non oxidizing material according to EC criteria.
xplosion limits	: 6 - 36 % (V)
.2. Other information	
o additional information available	
ECTION 10: Stability and rea	*tivity
0.1. Reactivity	
	n air. Highly flammable liguid and vapor.
0.2. Chemical stability	
ee storage and expiration date on CoA	
0.3. Possibility of hazardous rea	tions
o dangerous reactions known under no	rmal conditions of use.
0.4. Conditions to avoid	
void contact with hot surfaces. Heat. N	o flames, no sparks. Eliminate all sources of ignition.
	g agent. Alkali Metal Amides. Reducing agents. Acids.
0.6. Hazardous decomposition p	roducts
arbon oxides (CO, CO2).	
ECTION 11: Toxicological inf	ormation
1.1. Information on toxicological	
cute toxicity	: Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation:vapour: Toxic if inhale
PEOS/PEOA EXTRACTION STANDA	RD MIXTURE (13C8, 99%) 2000 NG/ML IN METHANOL
LD50 oral rat	1187 - 2769 mg/kg
LD50 dermal rabbit	17100 mg/kg
LC50 inhalation rat (mg/l)	128.2 mg/l/4h ; 87.6 mg/l - 6 h
ATE CLP (oral)	100.000 mg/kg body weight
ATE CLP (dermal)	17.100 mg/kg body weight
ATE CLP (vapors)	3.000 mg/l/4h
ATE CLP (dust, mist)	128.200 mg/l/4h
LDLO, oral, human	143 mg/kg Remarks: Lungs, Thorax, or Respiration: Dyspnea. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
PERFLUORO-N-OCTANOIC ACID (P	FOA) (13C8, 99%) (1350614-84-4)
ATE CLP (oral)	500.000 mg/kg body weight
ATE CLP (gases)	4500.000 ppmV/4h
ATE CLP (vapors)	11.000 mg/l/4h
ATE CLP (dust, mist)	1.500 mg/l/4h
Additional information	LD50 Intraperitoneal - Rat - 189 mg/kg
100% METHANOL UNLABELED (67-	i6-1)
LD50 oral rat	1187 - 2769 mg/kg
LD50 dermal rabbit	17100 mg/kg
LC50 inhalation rat (mg/l)	128.2 mg/l/4h ; 87.6 mg/l - 6 h
ATE CLP (oral)	100.000 mg/kg body weight
ATE CLP (dermal)	300.000 mg/kg body weight
ATE CLP (vapors)	3.000 mg/l/4h
ATE CLP (dust, mist)	128.200 mg/l/4h
LDLO, oral, human	143 mg/kg Remarks: Lungs, Thorax, or Respiration: Dyspnea. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
SODIUM PERFLUORO-1-OCTANESU	LFONATE (PFOS) (13C8, 99%) (4021-47-0 (Unlabeled))
ATE CLP (oral)	500.000 mg/kg body weight
kin corrosion/irritation	: Skin - Rabbit - Result: No skin irritation
erious eye damage/irritation	: Eyes - Rabbit - Result: No eye irritation

NG/ML IN METHANOL ES-5571

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

-,		
Germ cell mutagenicity	:	AMES test : S. tymphimurium. Result: Negative - Fibroblast - Result: Negative. Mutation in mammalian somatic cells. Mutagenicity (in vivo mammalian bone-marrow cystogenetic test, chromosomal analysis) - Mouse - Male and female - Result: Negative. Mouse - Male and female. Result: Negative
Carcinogenicity	:	Not classified
Reproductive toxicity	:	Damage to fetus not classifiable. Fertility classification not possible from current data.
Specific target organ toxicity – single exposure	:	Causes damage to organs through prolonged or repeated exposure Causes damage to organs
Specific target organ toxicity – repeated exposure	:	The substance or mixture is not classified as specific target organ toxicant, repeated exposure. No data available
Aspiration hazard	:	No aspiration toxicity classification.
Potential Adverse human health effects and symptoms	:	This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. Effects due to Ingestion may include: Headache. Dizziness. Drowsiness. metabolic acidosis. Coma. May be fatal if swallowed and enters airways. If swallowed there is a risk of blindness. Effects on humans. stomach.
Symptoms/effects after inhalation	:	Toxic if inhaled.
Symptoms/effects after skin contact	:	Toxic in contact with skin. Causes 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.
PFOS/PFOA EXTRACTION STANDARD MIXTU	JRE (13C8, 99%) 2000 NG/ML IN METHANOL
LC50 fish 1	15400 mg/l mortality LC50 - Lepomis machrochirus (Bluegill) - 96 h
EC50 Daphnia 1	> 10000 mg/l Daphnia magna (Water flea) - 48 h
EC50 Daphnia 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 Daphnia 1	> 10000 mg/l Daphnia magna (Water flea) - 48 h

7900 mg/l Oryzias latipes - 200 h

22000 mg/l Growth inhibition EC50 - Scenedesmus capricornutum (fresh water algae) - 96 h

12.2. Persistence and degradability

PFOS/PFOA EXTRACTION STANDARD MIX	TURE (13C8, 99%) 2000 NG/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			
PFOS/PFOA EXTRACTION STANDARD MIX	TURE (13C8, 99%) 2000 NG/ML IN METHANOL		
BCF fish 1	5 mg/l Cyprinus carpio (Carp) - 72 d at 20 °C		
Bioconcentration factor (BCF REACH)	1		
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			

EC50 Daphnia 2 NOEC (acute)

NG/ML IN METHANOL ES-5571

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

26, 2012 / Rules and Regulations	
100% METHANOL UNLABELED (67-56-1)	
Log Pow	-0.77
12.4. Mobility in soil	
PFOS/PFOA EXTRACTION STANDARD MIX	TURE (13C8, 99%) 2000 NG/ML IN METHANOL
Ecology - soil	Not degradable in the soil.
100% METHANOL UNLABELED (67-56-1)	
Ecology - soil	Not degradable in the soil.
12.5. Results of PBT and vPvB assessme	nt
PFOS/PFOA EXTRACTION STANDARD MIX	TURE (13C8, 99%) 2000 NG/ML IN METHANOL
PBT: not relevant – no registration required	
100% METHANOL UNLABELED (67-56-1)	
PBT: not relevant – no registration required	
12.6. Other adverse effects	
Other adverse effects	: Avoid release to the environment.
Other information	: Stability in water: at 19 °C - (83 - 91%) - 72 h. Remarks: Hydrolyses on contact with water.
	Hydrolyses readily.
SECTION 42: Dispessel consideration	
SECTION 13: Disposal consideration	
13.1. Waste treatment 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 ADR / RID / IMDG / IATA / A	DN
14.1. UN number	
UN-No.(DOT)	: 1230
DOT NA no.	UN1230
14.2. UN proper shipping name	Mathemat
Proper Shipping Name (DOT)	: Methanol
Class (DOT) Hazard labels (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Hazard labels (DOT)	: 3 - Flammable liquid 6.1 - Poison
	POISON 3 6
DOT Symbols	: + - Fixes (cannot be altered) proper shipping name, hazard class, and packing group,I - Proper
	shipping name appropriate for international and domestic transportation
Packing group (DOT)	: II - Medium Danger
DOT Special Provisions (49 CFR 172.102)	 IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T7 - 4 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
DOT RQ	: 5000 lbs
18/08/2020	EN (English LIS) 10/14

NG/ML IN METHANOL ES-5571

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Marine pollutant : No 14.3. **Additional information** Emergency Response Guide (ERG) Number : 131 Other information : No supplementary information available. **Overland transport** Packing group (ADR) : 11 Class (ADR) : 3 - Flammable liquid Hazard identification number (Kemler No.) : 336 Classification code (ADR) : FT1 : 3 - Flammable liquids Hazard labels (ADR) 6.1 - Toxic substances Orange plates 336 1230 : D/E Tunnel restriction code (ADR) Limited quantities (ADR) 11 Excepted quantities (ADR) : E2 Transport by sea : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a **DOT Vessel Stowage Location** passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded. DOT Vessel Stowage Other : 40 - Stow "clear of living quarters" MFAG-No : 131 Air transport DOT Quantity Limitations Passenger aircraft/rail : 1 L (49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49 : 60 L CFR 175.75) **Civil Aeronautics Law** : Flammable liquids 14.4. **Environmental hazards** Other information : No supplementary information available. 14.5. Special precautions for user Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code 14.6. Not applicable **SECTION 15: Regulatory information**

15.1. US Federal regulations			
PFOS/PFOA EXTRACTION STANDARD MIXTURE (13C8, 99%) 2000 NG/ML IN METHANOL			
Listed on the United States TSCA (Toxic Substances Control Act) inventory			
CERCLA RQ 5000 lb			
SARA Section 302 Threshold Planning Quantity (TPQ) Not subject to reporting requirements of the United States SARA Section 302.			

NG/ML IN METHANOL ES-5571

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

PFOS/PFOA EXTRACTION STANDARD MIXTURE (13C8, 99%) 2000 NG/ML IN METHANOL		
SARA Section 311/312 Hazard Classes	Fire hazard	
	Immediate (acute) health hazard	
	Delayed (chronic) health hazard	
SARA Section 313 - Emission Reporting	Subject to reporting requirements of United States SARA Section 313	
PERFLUORO-N-OCTANOIC ACID (PFOA) (130	C8 , 99%) (1350614-84-4)	
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 Delayed (chronic) health hazard	
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313	
100% METHANOL UNLABELED (67-56-1)		
Listed on the United States TSCA (Toxic Substan	nces Control Act) inventory	
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	
SARA Section 313 - Emission Reporting	Subject to reporting requirements of United States SARA Section 313	
SODIUM PERFLUORO-1-OCTANESULFONATE (PFOS) (13C8, 99%) (4021-47-0 (Unlabeled))		
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 311/312 Hazard Classes	Immediate (acute) health hazard	
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313	

15.2. International regulations

CANADA

PFOS/PFOA EXTRACTION STANDARD MIXTURE (13C8, 99%) 2000 NG/ML IN METHANOL
Listed on the Canadian DSL (Domestic Substances List)
100% METHANOL UNLABELED (67-56-1)

15.2.1. National regulations

No additional information available

15.3. US State regulations

PFOS/PFOA EXTRACTION STANDARD MIXTURE (13C8, 99%) 2000 NG/ML IN METHANOL()					
U.S California - Proposition 65 - Carcinogens List		No)		
U.S California - Proposition 65 - Developmental Toxicity		Ye	25		
U.S California - Proposition 65 - Reproductive Toxicity - Female		No			
U.S California - Proposition 65 - Reproductive Toxicity - Male		No			
State or local regulations		U.: U.: U.: U.:	S Idaho - Non-Carcinogenic S Massachusetts - Right To S Pennsylvania - RTK (Righ S New Jersey - Right to Kno	t to Know) List	le Ambient Concentrations
PERFLUORO-N-OCTANOIC ACID (PFOA) (13C8, 99%) (350614-84-4)		
U.S California - Proposition 65 - Carcinogens List U.S California - Proposition 65 - Developmental Toxicity			U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No Yes			Yes	Yes	

NG/ML IN METHANOL ES-5571

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

100% METHANOL UNLA	BELED (67-56-1)			
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	Yes	No	No	
SODIUM PERFLUORO-1-	OCTANESULFONATE (PFOS	.) (13C8, 99%) (4021-47-0 (Un	labeled))	
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	
State or local regulations U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List				
	100% METHANOL UNLABELED (67-56-1)			
State or local regulations				
 U.S Delaware - Pollutant Discharge Requirements - Reportable Quantities U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations 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 U.S New York - Reporting of Releases Part 597 - List of Hazardous Substances 				
SODIUM PERFLUORO-1-OCTANESULFONATE (PFOS) (13C8, 99%) (4021-47-0 (Unlabeled))				
State or local regulations	State or local regulations			
U.S New Jersey - Right t U.S Pennsylvania - RTK	to Know Hazardous Substance (Right to Know) List	List		

SECTION 16: Other information

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 R-, H- and EUH-phrases:

text of R^- , Π^- and $E \cup \Pi^-$ philases.				
Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3			
Acute Tox. 3 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 3			
Acute Tox. 3 (Oral) Acute toxicity (oral) Category 3				
Acute Tox. 4 (Inhalation) Acute toxicity (inhalation) Category 4				
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4			
Carc. 2	Carcinogenicity Category 2			
Eye Dam. 1	Serious eye damage/eye irritation Category 1			
Eye Irrit. 2	Serious eye damage/eye irritation Category 2			
Flam. Liq. 2	Flammable liquids Category 2			
Lact.	Reproductive toxicity (Lact.)			
Repr. 1A	Reproductive toxicity Category 1A			
Skin Corr. 1A	Skin corrosion/irritation Category 1A			
Skin Irrit. 2	t. 2 Skin corrosion/irritation Category 2			
STOT RE 1 Specific target organ toxicity (repeated exposure) Category 1				
STOT SE 1 Specific target organ toxicity (single exposure) Category 1				
H225	Highly flammable liquid and vapor			
H301	Toxic if swallowed			
H302 Harmful if swallowed				
H311	Toxic 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			

NG/ML IN METHANOL ES-5571

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

H331	Toxic if inhaled		
H332	Harmful if inhaled		
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		
R11	Highly flammable		
R20/22	Harmful by inhalation and if swallowed		
R22	Harmful if swallowed		
R23/25	Toxic by inhalation and if swallowed		
R34	Causes burns		
R36/38	Irritating to eyes and skin		
R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed		
R40	Limited evidence of a carcinogenic effect		
R41	Risk of serious damage to eyes		
R48	Danger of serious damage to health by prolonged exposure		
R60	May impair fertility		
R61	May cause harm to the unborn child		
R62	Possible risk of impaired fertility		
R63	Possible risk of harm to the unborn child		
С	Corrosive		
F	Highly flammable		
Т	Toxic		
Xi	Irritant		
Xn	Harmful		

NFPA health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard	: 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
Hazard Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 3 Serious Hazard
Physical	: 0 Minimal Hazard

CIL Mixture SDS

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