

### 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 Date of issue: 10/05/2022 Revision date: : Version: 1.0 ES-5639-A

SECTION 1: Identification of t	he substance/mixture and of the company/undertaking	
1.1. Product identifier		
Product form	: Mixtures	
Product name	<ul> <li>PFAS SUPERFUND MIXTURE 1 UNLABELED, IN METHANOL W/4 MOLAR EQUIVALENTS NAOH</li> </ul>	
Product code	: ES-5639-A	
1.2. Relevant identified uses of	the substance 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	e safety data sheet	
Cambridge Isotope Laboratories, Inc. 50 Frontage Road Andover, MA 01810 USA		
USA: 1-800-322-1174 Int: 1-978-749 cilsales@isotope.com www.isotope.c		
Emergency telephone num	ber	
Emergency numbers:		
Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hou		
<b>SECTION 2: Hazards identific</b>	ation	
2.1. Classification of the substa	nce or mixture	
Classification according to Regulation	on (EC) No. 1272/2008 [CLP]	
Flam. Liq. 2 H225		
Acute Tox. 3 (Oral) H301		
Acute Tox. 3 (Dermal) H311		
Acute Tox. 3 (Inhalation) 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/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		
GHS-US classification		
Flam. Liq. 2 H225		

 Flam. Liq. 2
 H225

 Acute Tox. 3 (Oral)
 H301

 Acute Tox. 3 (Dermal)
 H311

 Acute Tox. 3 (Inhalation)
 H331

 Skin Irrit. 2
 H315

 Eye Irrit. 2
 H319

 STOT SE 1
 H370

Full text of H statements : see section 16

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### 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. Label elements

## Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)

22

Signal word (CLP) Hazardous ingredients Hazard statements (CLP)



- : Danger
- : 100% METHANOL UNLABELED
- : 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 (kidneys, liver, heart, eyes, central nervous system) (if inhaled, if swallowed, in contact with skin)
- : P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No Precautionary statements (CLP) smoking.
  - 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.
  - P271 Use only outdoors or in a well-ventilated area.

### **GHS-US** labeling

Hazard pictograms (GHS-US)	
	GHS02 GHS08 GHS06
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	<ul> <li>H225 - Highly flammable liquid and vapor H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled H315 - Causes skin irritation H319 - Causes serious eye irritation H370 - Causes damage to organs (eyes, kidneys, liver, heart, central nervous system) (Dermal, Inhalation, oral)</li> </ul>
Precautionary statements (GHS-US)	<ul> <li>P210 - Keep away from heat, open flames, sparks No smoking.</li> <li>P233 - Keep container tightly closed.</li> <li>P240 - Ground/Bond container and receiving equipment</li> <li>P241 - Use explosion-proof electrical, lighting, ventilating equipment</li> <li>P242 - Use only non-sparking tools.</li> <li>P243 - Take precautionary measures against static discharge.</li> <li>P260 - Do not breathe dust, fume, mist, gas, spray, vapors.</li> <li>P261 - Avoid breathing dust, fume, gas, spray, vapors, mist.</li> <li>P264 - Wash hands, forearms and face thoroughly after handling.</li> <li>P270 - Do not eat, drink or smoke when using this product.</li> <li>P271 - Use only outdoors or in a well-ventilated area.</li> <li>P280 - Wear protective clothing, protective gloves.</li> <li>P301+P310 - If swallowed: Immediately call a doctor, a POISON CENTER</li> <li>P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower</li> <li>P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing</li> <li>P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing</li> <li>P307+P311 - If exposed: Call a poison center/doctor</li> <li>P311 - Call a doctor, a POISON CENTER</li> </ul>

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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

Name	Product identifier	%	Classification according to
			Directive 67/548/EEC
00% METHANOL UNLABELED	(CAS-No.) 67-56-1 (EC-No.) 200-659-6	99.99151	F; R11 T; R39/23/24/25
	(EC Index-No.) 603-001-00-X		Xi: R36/38
	(REACH-no) 01-2119433307-44		х, коолоо
SODIUM HYDROXIDE UNLABELED	(CAS-No.) 1310-73-2 (Unlabeled)	0.00223	C; R35
	(EC-No.) 215-185-5 (Unlabeled)		Xi; R41
	(EC Index-No.) 011-002-00-6 (Unlabeled)		R52
PERFLUOROBUTANESULFONATE, POTASSIUM SALT	(CAS-No.) 29420-49-3	0.00029	Xi; R36/37/38
JNLABELED	(EC-No.) 249-61-3		,
POTASSIUM PERFLUOROHEXANESULFONATE	(CAS-No.) 3871-99-6	0.00028	Xi; R36/37/38
JNLABELED (MIX OF ISOMERS) (CP 95%)	(EC-No.) 223-393-2		
PERFLUOROBUTYRIC ACID, SODIUM SALT UNLABELED	(CAS-No.) 2218-54-4 (EC Index-No.)	0.00028	Xi; R36/37/38
H,1H,2H,2H-PERFLUOROOCTANE SULFONATE (6:2 FTS),	(CAS-No.) 27619-94-9	0.00027	Xn; R22
SODIUM SALT (UNLABELED)	(EC Index-No.)	0.00027	C; R35
H,1H,2H,2H-PERFLUOROHEXANE SULFONATE (4:2 FTS),	(CAS-No.) 27619-93-8	0.00027	Xn; R22
SODIUM SALT (UNLABELED)	(EC Index-No.)		C; R35
H,1H,2H,2H-PERFLUORODECANE SULFONATE (8:2 FTS),	(CAS-No.) 27619-96-1	0.00027	T: R25
SODIUM SALT (UNLABELED)	(EC Index-No.)		Xn; R20
			N; R51/53
H,1H,2H,2H-PERFLUORODODECANE SULFONATE(10:2	(CAS-No.) 108026-35-3	0.00027	T; R25
TS), SODIUM SALT (UNLABELED)	(EC Index-No.)	0.00027	Xn; R20
			N; R51/53
PERFLUOROPENTANOIC ACID, SODIUM SALT	(CAS-No.) 2706-89-0 (EC Index-No.)	0.00027	Xi; R36/37/38
PERFLUOROHEXANOIC ACID, SODIUM SALT UNLABELED	(CAS-No.) 2923-26-4	0.00027	Xi; R36/37/38
EN LUORONEXANDIC ACID, SODIOW SALT UNEABELED	(EC-No.) 206-196-6	0.00027	XI, K30/37/30
PERFLUORODECANOIC ACID, SODIUM SALT UNLABELED	(CAS-No.) 3830-45-3	0.00026	Xn; R22
ubstance listed as REACH Candidate (Nonadecafluorodecanoic acid PFDA) and its sodium and ammonium salts)	(EC Index-No.)		Xi; R36/37/38
, , ,			N
PERFLUOROUNDECANOIC ACID, SODIUM SALT	(CAS-No.) 60871-96-7 (EC-No.) 218-165-4	0.00026	Xn; R20/21/22 Xi; R36/38
ubstance listed as REACH Candidate (Henicosafluoroundecanoic acid)	(EC-NO.) 210-103-4		AI, K30/36
PERFLUORODODECANOIC ACID, SODIUM SALT	(CAS-No.) 307-67-5	0.00026	Xi; R36/37/38
	(EC-No.) 206-203-2		
ubstance listed as REACH Candidate (Tricosafluorododecanoic acid)	(040 No.) 2004 50 6	0.00005	Vi. D00/07/00
N-ETHYLPERFLUOROOCTANESULFONAMIDOACETIC ACID UNLABELED (MIX OF ISOMERS)	(CAS-No.) 2991-50-6	0.00025	Xi; R36/37/38
N-METHYLPERFLUOROOCTANESULFONAMIDOACETIC	(CAS-No.) 2355-31-9	0.00025	Xi; R36/37/38
ACID UNLABELED -	(EC Index-No.)		
ETRAFLUORO-2-(HEPTAFLUOROPROPOXY)PROPANOIC	(CAS-No.) 13252-13-6	0.00025	C; R35
ACID (HFPO-DA) "GENX" UNLABELED	(EC Index-No.)		Xi; R37

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Name	Product identifier	%	Classification according to Directive 67/548/EEC
PERFLUOROOCTANESULFONAMIDE (PFOSA) UNLABELED (MIX OF ISOMERS)	(CAS-No.) NA (EC Index-No.)	0.00025	R53
PERFLUOROOCTANESULFONIC ACID (MIX OF ISOMERS) UNLABELED	(CAS-No.) 1763-23-1 (EC-No.) 217-179-8 (EC Index-No.) 607-624-00-8	0.00025	Xn; R22 Xn; R20 C; R35 Carc.Cat.3; R40 Repr.Cat.1; R60 Repr.Cat.1; R61 N; R51/53
N-METHYLPERFLUOROOCTANESULFONAMIDE UNLABELED	(CAS-No.) 31506-32-8 (Unlabeled) (EC Index-No.)	0.00025	Xn; R22 Xi; R36/37/38
PERFLUOROHEPTANOIC ACID UNLABELED	(CAS-No.) 375-85-9 (Unlabeled) (EC-No.) 206-798-9	0.00025	T; R23/25 Xn; R22 C; R34
PERFLUORO-N-OCTANOIC ACID (PFOA) UNLABELED substance listed as REACH Candidate (Pentadecafluorooctanoic acid (PFOA))	(CAS-No.) 335-67-1 (EC-No.) 206-397-9	0.00025	T; R39/23/24/25 Xn; R22 C; R34 R52/53
PERFLUORONONANOIC ACID UNLABELED substance listed as REACH Candidate (Perfluorononan-1-oic-acid and its sodium and ammonium salts)	(CAS-No.) 375-95-1 (Unlabeled) (EC-No.) 206-801-3	0.00025	Xi; R36/37/38
PERFLUOROTETRADECANOIC ACID UNLABELED (96% CHEMICAL PURITY) substance listed as REACH Candidate (Heptacosafluorotetradecanoic acid)	(CAS-No.) 376-06-7 (EC-No.) 206-803-4 (EC Index-No.)	0.00025	Not classified
PERFLUOROHEXADECANOIC ACID UNLABELED	(CAS-No.) 67905-19-5 (EC-No.) 267-638-1 (EC Index-No.)	0.00025	C; R35 Xi; R41
PERFLUOROOCTADECANOIC ACID UNLABELED	(CAS-No.) 16517-11-6 (EC Index-No.)	0.00025	Not classified
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	99.99151	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
SODIUM HYDROXIDE UNLABELED	(CAS-No.) 1310-73-2 (Unlabeled) (EC-No.) 215-185-5 (Unlabeled) (EC Index-No.) 011-002-00-6 (Unlabeled)	0.00223	Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318
PERFLUOROBUTANESULFONATE, POTASSIUM SALT UNLABELED	(CAS-No.) 29420-49-3 (EC-No.) 249-61-3	0.00029	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H336
POTASSIUM PERFLUOROHEXANESULFONATE UNLABELED (MIX OF ISOMERS) (CP 95%)	(CAS-No.) 3871-99-6 (EC-No.) 223-393-2	0.00028	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
PERFLUOROBUTYRIC ACID, SODIUM SALT UNLABELED	(CAS-No.) 2218-54-4 (EC Index-No.)	0.00028	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
1H,1H,2H,2H-PERFLUOROOCTANE SULFONATE (6:2 FTS), SODIUM SALT (UNLABELED)	(CAS-No.) 27619-94-9 (EC Index-No.)	0.00027	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314
1H,1H,2H,2H-PERFLUOROHEXANE SULFONATE (4:2 FTS), SODIUM SALT (UNLABELED)	(CAS-No.) 27619-93-8 (EC Index-No.)	0.00027	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314
1H,1H,2H,2H-PERFLUORODECANE SULFONATE (8:2 FTS), SODIUM SALT (UNLABELED)	(CAS-No.) 27619-96-1 (EC Index-No.)	0.00027	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Inhalation), H332 Aquatic Chronic 2, H411
1H,1H,2H,2H-PERFLUORODODECANE SULFONATE(10:2 FTS), SODIUM SALT (UNLABELED)	(CAS-No.) 108026-35-3 (EC Index-No.)	0.00027	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Inhalation), H332 Aquatic Chronic 2, H411
PERFLUOROPENTANOIC ACID, SODIUM SALT UNLABELED	(CAS-No.) 2706-89-0 (EC Index-No.)	0.00027	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
PERFLUOROHEXANOIC ACID, SODIUM SALT UNLABELED	(CAS-No.) 2923-26-4 (EC-No.) 206-196-6	0.00027	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
PERFLUORODECANOIC ACID, SODIUM SALT UNLABELED substance listed as REACH Candidate (Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts)	(CAS-No.) 3830-45-3 (EC Index-No.)	0.00026	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
PERFLUOROUNDECANOIC ACID, SODIUM SALT UNLABELED substance listed as REACH Candidate (Henicosafluoroundecanoic acid)	(CAS-No.) 60871-96-7 (EC-No.) 218-165-4	0.00026	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist) H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319
PERFLUORODODECANOIC ACID, SODIUM SALT UNLABELED substance listed as REACH Candidate (Tricosafluorododecanoic acid)	(CAS-No.) 307-67-5 (EC-No.) 206-203-2	0.00026	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
N-ETHYLPERFLUOROOCTANESULFONAMIDOACETIC ACID UNLABELED (MIX OF ISOMERS)	(CAS-No.) 2991-50-6	0.00025	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
N-METHYLPERFLUOROOCTANESULFONAMIDOACETIC ACID UNLABELED -	(CAS-No.) 2355-31-9 (EC Index-No.)	0.00025	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
TETRAFLUORO-2-(HEPTAFLUOROPROPOXY)PROPANOIC ACID (HFPO-DA) "GENX" UNLABELED	(CAS-No.) 13252-13-6 (EC Index-No.)	0.00025	Skin Corr. 1, H314 STOT SE 3, H335
PERFLUOROOCTANESULFONAMIDE (PFOSA) UNLABELED (MIX OF ISOMERS)	(CAS-No.) NA (EC Index-No.)	0.00025	Aquatic Chronic 4, H413
PERFLUOROOCTANESULFONIC ACID (MIX OF ISOMERS) UNLABELED	(CAS-No.) 1763-23-1 (EC-No.) 217-179-8 (EC Index-No.) 607-624-00-8	0.00025	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1, H314 Carc. 2, H351 Lact., H362 Repr. 1A, H360 STOT RE 1, H372 Aquatic Chronic 2, H411
N-METHYLPERFLUOROOCTANESULFONAMIDE UNLABELED	(CAS-No.) 31506-32-8 (Unlabeled) (EC Index-No.)	0.00025	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
PERFLUOROHEPTANOIC ACID UNLABELED	(CAS-No.) 375-85-9 (Unlabeled) (EC-No.) 206-798-9	0.00025	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318
PERFLUORO-N-OCTANOIC ACID (PFOA) UNLABELED substance listed as REACH Candidate (Pentadecafluorooctanoic acid (PFOA))	(CAS-No.) 335-67-1 (EC-No.) 206-397-9	0.00025	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412
PERFLUORONONANOIC ACID UNLABELED substance listed as REACH Candidate (Perfluorononan-1-oic-acid and its sodium and ammonium salts)	(CAS-No.) 375-95-1 (Unlabeled) (EC-No.) 206-801-3	0.00025	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H336
PERFLUOROTETRADECANOIC ACID UNLABELED (96% CHEMICAL PURITY) substance listed as REACH Candidate (Heptacosafluorotetradecanoic acid)	(CAS-No.) 376-06-7 (EC-No.) 206-803-4 (EC Index-No.)	0.00025	Not classified
PERFLUOROHEXADECANOIC ACID UNLABELED	(CAS-No.) 67905-19-5 (EC-No.) 267-638-1 (EC Index-No.)	0.00025	Skin Corr. 1, H314 Eye Dam. 1, H318
PERFLUOROOCTADECANOIC ACID UNLABELED	(CAS-No.) 16517-11-6 (EC Index-No.)	0.00025	Not classified
Name	Product identifier	%	GHS-US classification
100% METHANOL UNLABELED	(CAS-No.) 67-56-1	99.99151	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)	0.00223	Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Acute 3, H402
PERFLUOROBUTANESULFONATE, POTASSIUM SALT UNLABELED	(CAS-No.) 29420-49-3	0.00029	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	0.00028	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335

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Name	Product identifier	%	GHS-US classification
PERFLUOROBUTYRIC ACID, SODIUM SALT UNLABELED	(CAS-No.) 2218-54-4	0.00028	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
1H,1H,2H,2H-PERFLUOROOCTANE SULFONATE (6:2 FTS), SODIUM SALT (UNLABELED)	(CAS-No.) 27619-94-9	0.00027	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314
1H,1H,2H,2H-PERFLUOROHEXANE SULFONATE (4:2 FTS), SODIUM SALT (UNLABELED)	(CAS-No.) 27619-93-8	0.00027	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314
1H,1H,2H,2H-PERFLUORODECANE SULFONATE (8:2 FTS), SODIUM SALT (UNLABELED)	(CAS-No.) 27619-96-1	0.00027	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Inhalation), H332 Aquatic Chronic 2, H411
1H,1H,2H,2H-PERFLUORODODECANE SULFONATE(10:2 FTS), SODIUM SALT (UNLABELED)	(CAS-No.) 108026-35-3	0.00027	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Inhalation), H332 Aquatic Chronic 2, H411
PERFLUOROPENTANOIC ACID, SODIUM SALT UNLABELED	(CAS-No.) 2706-89-0	0.00027	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
PERFLUOROHEXANOIC ACID, SODIUM SALT UNLABELED	(CAS-No.) 2923-26-4	0.00027	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
PERFLUORODECANOIC ACID, SODIUM SALT UNLABELED	(CAS-No.) 3830-45-3	0.00026	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	0.00026	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319
PERFLUORODODECANOIC ACID, SODIUM SALT UNLABELED	(CAS-No.) 307-67-5	0.00026	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
N-ETHYLPERFLUOROOCTANESULFONAMIDOACETIC ACID UNLABELED (MIX OF ISOMERS)	(CAS-No.) 2991-50-6	0.00025	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
N-METHYLPERFLUOROOCTANESULFONAMIDOACETIC ACID UNLABELED -	(CAS-No.) 2355-31-9	0.00025	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
TETRAFLUORO-2-(HEPTAFLUOROPROPOXY)PROPANOIC ACID (HFPO-DA) "GENX" UNLABELED	(CAS-No.) 13252-13-6	0.00025	Skin Corr. 1A, H314 STOT SE 3, H335
PERFLUOROOCTANESULFONAMIDE (PFOSA) UNLABELED (MIX OF ISOMERS)	(CAS-No.) NA	0.00025	Aquatic Chronic 4, H413
PERFLUOROOCTANESULFONIC ACID (MIX OF ISOMERS) UNLABELED	(CAS-No.) 1763-23-1	0.00025	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-METHYLPERFLUOROOCTANESULFONAMIDE UNLABELED	(CAS-No.) 31506-32-8 (Unlabeled)	0.00025	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
PERFLUOROHEPTANOIC ACID UNLABELED	(CAS-No.) 375-85-9 (Unlabeled)	0.00025	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318
PERFLUORO-N-OCTANOIC ACID (PFOA) UNLABELED	(CAS-No.) 335-67-1	0.00025	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)	0.00025	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H336
PERFLUOROTETRADECANOIC ACID UNLABELED (96% CHEMICAL PURITY)	(CAS-No.) 376-06-7	0.00025	Not classified
PERFLUOROHEXADECANOIC ACID UNLABELED	(CAS-No.) 67905-19-5	0.00025	Skin Corr. 1A, H314 Eye Dam. 1, H318
PERFLUOROOCTADECANOIC ACID UNLABELED	(CAS-No.) 16517-11-6	0.00025	Not classified

Full text of R- and H- phrases: 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 effect	s, both acute and delayed
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. Indication of any immediate medical	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 sub	stance or mixture
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.
<b>SECTION 6: Accidental release meas</b>	ures
6.1. Personal precautions, protective equ	ipment 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	t and cleaning up
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.

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SECTION 7: Handling ar	nd storage	
7.1. Precautions for safe	handling	
Precautions for safe handling	smoking. Ground/bond container an precautionary measures against sta container. Use explosion-proof equi	sparks, open flames and other ignition sources. No d receiving equipment. Use only non-sparking tools. Take tic discharge. Flammable vapors may accumulate in the oment. Wear personal protective equipment. Do not ors, mist. Do not get in eyes, on skin, or on clothing. Use area.
Hygiene measures		othing. Wash hands before breaks and immediately after nated clothing before reuse. Do not eat, drink or smoke sh hands after handling the product.
7.2. Conditions for safe s	storage, including any incompatibilities	
Technical measures		g equipment. Store in a well-ventilated place. Keep d up.
Storage conditions	: Store at room temperature away fro	m light and moisture.
7.3. Specific end use(s)		
No additional information availab	ble	
SECTION 8: Exposure c	ontrols/personal protection	
8.1. Control parameters		
PFAS SUPERFUND MIXTUR	E 1 UNLABELED, IN METHANOL W/4 MOLAR EQUIV	ALENTS NAOH
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 <sup>3</sup> )	260 mg/m <sup>3</sup> 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 <sup>3</sup> )	325 mg/m <sup>3</sup> 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 <sup>3</sup> Basis: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants - 1910.1000. California permissible exposure limits for chemical contaminants (Title 8, Article 107)
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/m³)	325 mg/m <sup>3</sup> Basis: USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000. California permissible exposure limits for chemical contaminants (Title 8, Article 107)
USA OSHA	OSHA PEL (STEL) (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 (Ceiling) (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	ACGIH TWA (ppm)	200.00000000 ppm Basis: USA. ACGIH Threshold

Limit Values (TLV)

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100% METHANOL UNLABEL		250 ppm Basis: LISA_ACCIH Throshold Limit Values	
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 <sup>3</sup> )	260 mg/m <sup>3</sup> 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 <sup>3</sup> )	325 mg/m <sup>3</sup> 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 <sup>3</sup> Basis: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants - 1910.1000. California permissible exposure limits for chemical contaminants (Title 8, Article 107)	
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/m³)	325 mg/m <sup>3</sup> Basis: USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000. California permissible exposure limits for chemical contaminants (Title 8, Article 107)	
USA OSHA	OSHA PEL (STEL) (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 (Ceiling) (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.	
SODIUM HYDROXIDE UNLABELED (1310-73-2 (Unlabeled))			
Italy - Portugal - USA ACGIH	ACGIH Ceiling (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> Upper Respiratory Tract irritation. Eye irritation. Skin irritation.	
USA NIOSH	NIOSH REL (ceiling) (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> Upper Respiratory Tract irritation. Eye irritation. Skin irritation.	
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> Upper Respiratory Tract irritation. Eye irritation. Skin irritation.	

## PFAS SUPERFUND MIXTURE 1 UNLABELED, IN METHANOL W/4 MOLAR EQUIVALENTS NAOH

DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	40 mg/kg bodyweight/day
Acute - systemic effects, inhalation	260 mg/m <sup>3</sup>
Acute - local effects, dermal	260 mg/cm <sup>2</sup>
Long-term - systemic effects, dermal	40 mg/kg bodyweight/day
Long-term - local effects, dermal	260 mg/cm <sup>2</sup>
Long-term - local effects, inhalation	260 mg/m <sup>3</sup>
DNEL/DMEL (General population)	
Acute - systemic effects, dermal	8 mg/kg body weight
Acute - systemic effects, inhalation	50 mg/m³
Acute - systemic effects, oral	8 mg/kg body weight
Acute - local effects, inhalation	50 mg/m³
Long-term - systemic effects,oral	8 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	50 mg/m³
Long-term - systemic effects, dermal	8 mg/kg bodyweight/day
Long-term - local effects, inhalation	50 mg/m³

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PFAS SUPERFUND MIXTURE 1 UNLABELED, IN METHANOL W/4 MOLAR EQUIVALENTS NAOH	
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**

9.1. Information on basic physical and	
The properties listed below are for the solvent, the main comp	
Physical state	: Liquid
Appearance	: Liquid
Molecular mass	: 32.04 g/mol
Color	: Colorless
Odor	: Pungent
Odor threshold	: No data available
рН	: No data available
Relative evaporation rate (butyl acetate=1)	: 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
Auto-ignition temperature	: 455 °C (851 °F) at 1,013 hPa (760 mmHg)
Decomposition temperature	: 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
Specific gravity / density	: 0.791 g/ml at 25 °C (77 °F)
Solubility	: Water: Completely miscible
Log Pow	: -0.77
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Product is not explosive.
Oxidizing properties	: Non oxidizing material according to EC criteria.

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Explosion limits	: 6 - 36 % (V)
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
Vapors may form flammable mixture with air. High	ly flammable liquid and vanor
10.2. Chemical stability	
See storage and expiration date on CoA.	
10.3. Possibility of hazardous reactions	
No dangerous reactions known under normal cond	litions 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	n
11.1. Information on toxicological effects	
	: Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation: Toxic if inhaled.
,	
LD50 oral rat	IN METHANOL W/4 MOLAR EQUIVALENTS NAOH 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.
100% METHANOL UNLABELED (67-56-1)	
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.
1H,1H,2H,2H-PERFLUOROOCTANE SULFON	ATE (6:2 FTS), SODIUM SALT (UNLABELED) (27619-94-9)
ATE CLP (oral)	500.000 mg/kg body weight
1H,1H,2H,2H-PERFLUOROHEXANE SULFONA	TE (4:2 FTS), SODIUM SALT (UNLABELED) (27619-93-8)
ATE CLP (oral)	500.000 mg/kg body weight
1H,1H,2H,2H-PERFLUORODECANE SULFON	ATE (8:2 FTS), SODIUM SALT (UNLABELED) (27619-96-1)
ATE CLP (oral)	100.000 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
1H,1H,2H,2H-PERFLUORODODECANE SULF	DNATE(10:2 FTS), SODIUM SALT (UNLABELED) (108026-35-3)
ATE CLP (oral)	100.000 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

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PERFLUOROOCTANESULFONAMIDE (PFOS	SA) UNLABELED (MIX OF ISOMERS) (NA)
LD50 oral rat	> 172 mg/kg
PERFLUOROOCTANESULFONIC ACID (MIX	OF ISOMERS) UNLABELED (1763-23-1)
LD50 oral rat	154 mg/kg
ATE CLP (oral)	154.000 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	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)
N-METHYLPERFLUOROOCTANESULFONAL	MIDE UNLABELED (31506-32-8 (Unlabeled))
ATE CLP (oral)	500.000 mg/kg body weight
PERFLUOROHEPTANOIC ACID UNLABELE	D (375-85-9 (Unlabeled))
ATE CLP (oral)	500.000 mg/kg body weight
PERFLUORO-N-OCTANOIC ACID (PFOA) UN	VLABELED (335-67-1)
ATE CLP (oral)	500.000 mg/kg body weight
PERFLUORODECANOIC ACID, SODIUM SAI	
ATE CLP (oral)	500.000 mg/kg body weight
PERFLUOROUNDECANOIC ACID, SODIUM	500.000 mg/kg body weight
ATE CLP (dermal)	1100.000 mg/kg body weight
ATE CLP (dust, mist)	1.500 mg/l/4h
Skin corrosion/irritation	: Skin – Rabbit - Result: No skin irritation
Serious eye damage/irritation	: Eyes – Rabbit - Result: No eye irritation
Respiratory or skin sensitization	: Maximisation Test . Guinea pig. Did not cause sensitization. (OECD 406 method)
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
Specific target organ toxicity – repeated exposure	: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Aspiration hazard	: Not classified
•	
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.

The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.	
PFAS SUPERFUND MIXTURE 1 UNLABELED, IN METHANOL W/4 MOLAR EQUIVALENTS NAOH	
15400 mg/l mortality LC50 - Lepomis machrochirus (Bluegill) - 96 h	

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

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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
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
PERFLUORODODECANOIC ACID, SODIUM SALT UNLABELED (307-67-5)	
EC50 other aquatic organisms 1	0.0792 mg/l Daphnia magna (Water flea) - 48h
SODIUM HYDROXIDE UNLABELED (1310-73-2 (Unlabeled))	
LC50 fish 1	125 mg/l Gambusia affinis (Mosquito fish) - 96 h
EC50 Daphnia 1	40.38 mg/l Daphnia (water flea) - 48 h - Immobilization
LC50 fish 2	45.4 mg/kg Oncorhynchus mykiss (rainbow trout) - 96 h
12.2. Persistence and degradability	

12.2. Persistence and degradability		
PFAS SUPERFUND MIXTURE 1 UNLABELED,	IN METHANOL W/4 MOLAR EQUIVALENTS NAOH	
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	
SODIUM HYDROXIDE UNLABELED (1310-73-2 (Unlabeled))		
Persistence and degradability	The methods for determining the biological degradability are not applicable to inorganic substances.	
2.3. Bioaccumulative potential		
PFAS SUPERFUND MIXTURE 1 UNLABELED,	IN METHANOL W/4 MOLAR EQUIVALENTS NAOH	
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	
Log Pow	-0.77	
PERFLUOROOCTANESULFONAMIDE (PFOS)	A) UNLABELED (MIX OF ISOMERS) (NA)	
Log Pow	5.8	
PERFLUOROOCTANESULFONIC ACID (MIX C	PERFLUOROOCTANESULFONIC ACID (MIX OF ISOMERS) UNLABELED (1763-23-1)	
BCF fish 1	56	
12.4. Mobility in soil		
PFAS SUPERFUND MIXTURE 1 UNLABELED,	IN METHANOL W/4 MOLAR EQUIVALENTS NAOH	
Ecology - soil	Not degradable in the soil.	
100% METHANOL UNLABELED (67-56-1)		
Ecology - soil	Not degradable in the soil.	
PERFLUOROOCTANESULFONIC ACID (MIX OF ISOMERS) UNLABELED (1763-23-1)		

 Log Koc
 10 x 10^5

 12.5.
 Results of PBT and vPvB assessment

PFAS SUPERFUND MIXTURE 1 UNLABELED, IN METHANOL W/4 MOLAR EQUIVALENTS NAOH

PBT: not relevant – no registration required 100% METHANOL UNLABELED (67-56-1)

PBT: not relevant – no registration required

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

This substance/mixture meets the PBT criteria of REACH, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH, annex XIII

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PERFLUORONONANOIC ACID UNLABE	LED (375-95-1 (Unlabeled))
This substance/mixture meets the PBT crite	eria of REACH, annex XIII
This substance/mixture does not meet the	vPvB criteria of REACH, annex XIII
PERFLUORODECANOIC ACID, SODIUM	SALT UNLABELED (3830-45-3)
This substance/mixture meets the PBT crite	eria of REACH, annex XIII
This substance/mixture does not meet the	vPvB criteria of REACH, annex XIII
PERFLUOROUNDECANOIC ACID, SODI	UM SALT UNLABELED (60871-96-7)
This substance/mixture does not meet the	PBT criteria of REACH, annex XIII
This substance/mixture meets the vPvB cri	teria of REACH, annex XIII
PERFLUORODODECANOIC ACID, SODI	UM SALT UNLABELED (307-67-5)
This substance/mixture does not meet the	PBT criteria of REACH, annex XIII
This substance/mixture meets the vPvB cri	teria of REACH, annex XIII
PERFLUOROTETRADECANOIC ACID UN	NLABELED (96% CHEMICAL PURITY) (376-06-7)
This substance/mixture does not meet the	PBT criteria of REACH, annex XIII
This substance/mixture meets the vPvB cri	teria of REACH, annex XIII
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 13: Disposal considera	ations

SECTION 13: Disposal consideration	ns
13.1. Waste treatment methods	
Regional legislation (waste)	: Waste materials should be disposed of under conditions which meet Federal, State, and loca environmental control regulations.
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.
Ecology - waste materials	: Dispose of as unused product.
<b>SECTION 14: Transport information</b>	
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	
Proper Shipping Name (DOT)	: Methanol
Class (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Hazard labels (DOT)	: 3 - Flammable liquid 6.1 - Poison
	FLAMMABLE LIQUID 90ISON 3 6
DOT Symbols	: + - Fixes (cannot be altered) proper shipping name, hazard class, and packing group, I - Prop shipping name appropriate for international and domestic transportation
Packing group (DOT)	: II - Medium Danger
DOT Special Provisions (49 CFR 172.102)	<ul> <li>IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composit (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 1<sup>-7</sup> kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.</li> <li>T7 - 4 178.274(d)(2) Normal</li></ul>
	following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) a the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
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2 1 o supplementary information available. 6
o supplementary information available.
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<u>336</u> 1230
E
(i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a
ssenger vessel carrying a number of passengers limited to not more than the larger of 25 ssengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on ssenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this ction is exceeded.
- Stow "clear of living quarters"
1
-
L
ammable liquids
supplementary information available.
MARPOL 73/78 and the IBC Code
IETHANOL W/4 MOLAR EQUIVALENTS NAOH
Control Act) inventory
ot subject to reporting requirements of the United States SARA Section 302.
e hazard mediate (acute) health bazard
mediate (acute) health hazard elayed (chronic) health hazard
bject to reporting requirements of United States SARA Section 313
Control Act) inventory
00 lb
t subject to reporting requirements of the United States SARA Section 302.
e hazard mediate (acute) health hazard elayed (chronic) health hazard
bject to reporting requirements of United States SARA Section 313
(6:2 FTS), SODIUM SALT (UNLABELED) (27619-94-9)
ot subject to reporting requirements of the United States SARA Section 302.

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1H,1H,2H,2H-PERFLUOROOCTANE SULFONA	<b>TE (6:2 FTS)</b> , SODIUM SALT (UNLABELED) <b>(27619-94-9)</b>		
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.		
1H,1H,2H,2H-PERFLUOROHEXANE SULFONA	TE (4:2 FTS), SODIUM SALT (UNLABELED) (27619-93-8)		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.		
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.		
1H,1H,2H,2H-PERFLUORODECANE SULFONA	<b>TE (8:2 FTS)</b> , SODIUM SALT (UNLABELED) <b>(27619-96-1)</b>		
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		
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.		
1H,1H,2H,2H-PERFLUORODODECANE SULFO	NATE(10:2 FTS), SODIUM SALT (UNLABELED) (108026-35-3)		
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		
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.		
N-ETHYLPERFLUOROOCTANESULFONAMID	DACETIC 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.		
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.		
N-METHYLPERFLUOROOCTANESULFONAMI	DOACETIC ACID UNLABELED - (2355-31-9)		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.		
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.		
TETRAFLUORO-2-(HEPTAFLUOROPROPOXY	PROPANOIC ACID (HFPO-DA) "GENX" UNLABELED (13252-13-6)		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.		
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.		
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.		
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.		
PERFLUOROBUTANESULFONATE, POTASSI	JM 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		
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313		
POTASSIUM PERFLUOROHEXANESULFONA	TE 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		
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.		
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		
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.		
PERFLUOROBUTYRIC ACID, SODIUM SALT U	NLABELED (2218-54-4)		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.		
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.		
PERFLUOROPENTANOIC ACID, SODIUM SAL	T UNLABELED (2706-89-0)		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.		
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.		
N-METHYLPERFLUOROOCTANESULFONAMIDE UNLABELED (31506-32-8 (Unlabeled)) Listed on the United States TSCA (Toxic Substances Control Act) inventory			
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N-METHYLPERFLUOROOCTANESULFONAMI	DE UNLABELED (31506-32-8 (Unlabeled))		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.		
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.		
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		
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313		
PERFLUOROHEPTANOIC ACID UNLABELED	(375-85-9 (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		
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313		
PERFLUORO-N-OCTANOIC ACID (PFOA) UNL	ABELED (335-67-1)		
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		
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313		
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		
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313		
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.		
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.		
PERFLUOROUNDECANOIC ACID, SODIUM SA	ALT 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		
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313		
PERFLUORODODECANOIC ACID, SODIUM SA	ALT 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		
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313		
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.		
SARA Section 313 - Emission Reporting	Not subject to reporing requirements of the United States SARA Section 313.		
PERFLUOROHEXADECANOIC ACID UNLABELED (67905-19-5)			
Not listed on the United States TSCA (Toxic Sub			
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.		
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.		
PERFLUOROOCTADECANOIC ACID UNLABE	LED (16517-11-6)		
Not listed on the United States TSCA (Toxic Sub	, .		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.		
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.		
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		
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313		

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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

### **15.2. International regulations**

### **CANADA**

PFAS SUPERFUND MIXTURE 1 UNLABELED, IN METHANOL W/4 MOLAR EQUIVALENTS NAOH

Listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

N-METHYLPERFLUOROOCTANESULFONAMIDE UNLABELED (31506-32-8 (Unlabeled))

Listed on the Canadian DSL (Domestic Substances List)

### PERFLUOROOCTADECANOIC ACID UNLABELED (16517-11-6)

Not listed on the Canadian DSL (Domestic Substances List)

### 15.2.1. National regulations

### N-METHYLPERFLUOROOCTANESULFONAMIDE UNLABELED (31506-32-8 (Unlabeled))

PERFLUOROHEXADECANOIC ACID UNLABELED (67905-19-5)

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

PERFLUOROOCTADECANOIC ACID UNLABELED (16517-11-6)

#### 15.3. US State regulations

PFAS SUPERFUND MIXTURE 1 UNLABELED, IN ME	THANOL W/4 MOLAR EQUIVALENTS NAOH()
U.S California - Proposition 65 - Carcinogens List	No
U.S California - Proposition 65 - Developmental Toxicity	Yes
U.S California - Proposition 65 - Reproductive Toxicity - Female	No
U.S California - Proposition 65 - Reproductive Toxicity - Male	No
State or local regulations	U.S Delaware - Pollutant Discharge Requirements - Reportable Quantities U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations RTK - U.S Massachusetts - Right To Know List RTK - U.S Pennsylvania - RTK (Right to Know) List RTK - U.S New Jersey - Right to Know Hazardous Substance List U.S New York - Reporting of Releases Part 597 - List of Hazardous Substances

		1 9		
100% METHANOL UNI	LABELED (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	
1H,1H,2H,2H-PERFLU	OROOCTANE SULFONATE (6:2	FTS), SODIUM SALT (UNLAI	BELED) (27619-94-9)	·
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	
1H,1H,2H,2H-PERFLU	OROHEXANE SULFONATE (4:2	FTS), SODIUM SALT (UNLA	BELED) (27619-93-8)	
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	
1H,1H,2H,2H-PERFLU	ORODECANE SULFONATE (8:2	FTS), SODIUM SALT (UNLAI	BELED) (27619-96-1)	
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	No	No	No	

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1H,1H,2H,2H-PERFLUC	RODODECANE SULFONATE(	10:2 FTS), SODIUM SALT (UN	NLABELED) (108026-35-3)	
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	
No	No	No	No	
	OCTANESULFONAMIDOACET			
J.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	
No	No	No	No	
	OOCTANESULFONAMIDOACE		-	
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	
No	No	No	No	
	PTAFLUOROPROPOXY)PROP/			
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	
No	No	No	No	
PERFLUOROOCTANES	SULFONAMIDE (PFOSA) UNLA			
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	
No	No	No	No	
	SULFONATE, POTASSIUM SAL			
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	
No	No	No	No	
POTASSIUM PERFLUC	ROHEXANESULFONATE UNL		) (CP 95%) <b>(3871-99-6)</b>	
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	
No	No	No	No	
	SULFONIC ACID (MIX OF ISOM			
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk leve
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	
No	Yes	Yes	Yes	
	ACID, SODIUM SALT UNLABE			
J.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Proposition 65 -			Poproductivo Tovicity	1
Proposition 65 -	Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	
Proposition 65 - Carcinogens List				
Proposition 65 - Carcinogens List No	Developmental Toxicity	Female No	Male No	
Proposition 65 - Carcinogens List No <b>PERFLUOROPENTANC</b> U.S California -	Developmental Toxicity No DIC ACID, SODIUM SALT UNLA U.S California -	Female           No <b>BELED (2706-89-0)</b> U.S California -	Male No U.S California -	No significant risk level
Proposition 65 - Carcinogens List No PERFLUOROPENTANC	Developmental Toxicity No DIC ACID, SODIUM SALT UNLA	Female No <b>BELED (2706-89-0)</b>	Male No	No significant risk level (NSRL)

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PERFLUOROPENTAN	DIC ACID, SODIUM SALT UNLA		1	
		Female	Male	
No	No	No	No	
N-METHYLPERFLUOR	OOCTANESULFONAMIDE UNL	ABELED (31506-32-8 (Unlab	eled))	
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	
PERFLUOROHEXANO	IC ACID, SODIUM SALT UNLA	BELED (2923-26-4)	•	•
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 - Carcinogens List	Proposition 65 - Developmental Toxicity	Proposition 65 - Reproductive Toxicity - Female	Proposition 65 - Reproductive Toxicity - Male	(NSRĽ)
No	No	No	No	
PERFLUOROHEPTAN	OIC ACID UNLABELED (375-85	-9 (Unlabeled))		
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	
PERFLUORO-N-OCTA	NOIC ACID (PFOA) UNLABELE	D (335-67-1)		
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	No	No	No	
PERFLUORONONANO	IC ACID UNLABELED (375-95-	1 (Unlabeled))		
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	
PERFLUORODECANO	IC ACID, SODIUM SALT UNLA	BELED (3830-45-3)		
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	
PERFLUOROUNDECA	NOIC ACID, SODIUM SALT UNI	ABELED (60871-96-7)		
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	
PERFLUORODODECA	NOIC ACID, SODIUM SALT UN	LABELED (307-67-5)		
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	
	-			
U.S California -	ECANOIC ACID UNLABELED (9 U.S California -	U.S California -	U.S California -	No significant risk level
D.S California - Proposition 65 - Carcinogens List	D.S California - Proposition 65 - Developmental Toxicity	Proposition 65 - Reproductive Toxicity - Female	Proposition 65 - Reproductive Toxicity - Male	(NSRL)

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		6% CHEMICAL PURITY) (376	5-06-7)	
No	No	No	No	
PERFLUOROHEXADEC	CANOIC ACID UNLABELED (67	905-19-5)		
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	
PERFLUOROOCTADEO	CANOIC ACID UNLABELED (16	517-11-6)		
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 - Carcinogens List	Proposition 65 - Developmental Toxicity	Proposition 65 - Reproductive Toxicity - Female	Proposition 65 - Reproductive Toxicity - Male	(NSRL)
No	No	No	No	
SODIUM HYDROXIDE (	JNLABELED (1310-73-2 (Unlab	eled))		
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	
100% METHANOL UNL	ABELED (67-56-1)			
State or local regulation				
	r - Right to Know Hazardous Sub ting of Releases Part 597 - List o			
U.S New York - Report 1H,1H,2H,2H-PERFLUO State or local regulation	ting of Releases Part 597 - List o PROOCTANE SULFONATE (6:2 ns	f Hazardous Substances	BELED) <b>(27619-94-9)</b>	
U.S New York - Report 1H,1H,2H,2H-PERFLUO State or local regulation RTK - U.S Pennsylvan	ting of Releases Part 597 - List o	f Hazardous Substances FTS), SODIUM SALT (UNLA	BELED) <b>(27619-94-9)</b>	
U.S New York - Report 1H,1H,2H,2H-PERFLUO State or local regulation RTK - U.S Pennsylvan RTK - U.S New Jersey 1H,1H,2H,2H-PERFLUO	ting of Releases Part 597 - List o <b>ROOCTANE SULFONATE (6:2</b> <b>ns</b> ia - RTK (Right to Know) List - Right to Know Hazardous Sub <b>ROHEXANE SULFONATE (4:2</b>	f Hazardous Substances FTS), SODIUM SALT (UNLA		
U.S New York - Report 1H,1H,2H,2H-PERFLUO State or local regulation RTK - U.S Pennsylvan RTK - U.S New Jersey 1H,1H,2H,2H-PERFLUO State or local regulation	ting of Releases Part 597 - List o <b>ROOCTANE SULFONATE (6:2</b> <b>ns</b> ia - RTK (Right to Know) List - Right to Know Hazardous Sub <b>ROHEXANE SULFONATE (4:2</b> <b>ns</b>	f Hazardous Substances FTS), SODIUM SALT (UNLA		
U.S New York - Report 1H,1H,2H,2H-PERFLUO State or local regulation RTK - U.S Pennsylvan RTK - U.S New Jersey 1H,1H,2H,2H-PERFLUO State or local regulation RTK - U.S Pennsylvan	ting of Releases Part 597 - List o <b>ROOCTANE SULFONATE (6:2</b> <b>ns</b> ia - RTK (Right to Know) List - Right to Know Hazardous Sub <b>ROHEXANE SULFONATE (4:2</b>	f Hazardous Substances FTS), SODIUM SALT (UNLA stance List FTS), SODIUM SALT (UNLA		
U.S New York - Report 1H,1H,2H,2H-PERFLUO State or local regulation RTK - U.S Pennsylvan RTK - U.S New Jersey 1H,1H,2H,2H-PERFLUO State or local regulation RTK - U.S Pennsylvan RTK - U.S New Jersey 1H,1H,2H,2H-PERFLUO	ting of Releases Part 597 - List o <b>ROOCTANE SULFONATE (6:2</b> <b>ns</b> ia - RTK (Right to Know) List - Right to Know Hazardous Sub <b>ROHEXANE SULFONATE (4:2</b> <b>ns</b> ia - RTK (Right to Know) List - Right to Know Hazardous Sub <b>RODECANE SULFONATE (8:2</b> )	f Hazardous Substances FTS), SODIUM SALT (UNLA stance List FTS), SODIUM SALT (UNLA stance List	BELED) <b>(27619-93-8)</b>	
U.S New York - Report 1H,1H,2H,2H-PERFLUO State or local regulation RTK - U.S Pennsylvan RTK - U.S New Jersey 1H,1H,2H,2H-PERFLUO State or local regulation RTK - U.S Pennsylvan RTK - U.S New Jersey 1H,1H,2H,2H-PERFLUO State or local regulation	ting of Releases Part 597 - List o PROOCTANE SULFONATE (6:2 ns ia - RTK (Right to Know) List - Right to Know Hazardous Sub PROHEXANE SULFONATE (4:2 ns ia - RTK (Right to Know) List - Right to Know Hazardous Sub PRODECANE SULFONATE (8:2 ns	f Hazardous Substances FTS), SODIUM SALT (UNLA stance List FTS), SODIUM SALT (UNLA stance List	BELED) <b>(27619-93-8)</b>	
U.S New York - Report 1H,1H,2H,2H-PERFLUO State or local regulation RTK - U.S Pennsylvan RTK - U.S New Jersey 1H,1H,2H,2H-PERFLUO State or local regulation RTK - U.S Pennsylvan RTK - U.S New Jersey 1H,1H,2H,2H-PERFLUO State or local regulation RTK - U.S Pennsylvan	ting of Releases Part 597 - List o <b>ROOCTANE SULFONATE (6:2</b> <b>ns</b> ia - RTK (Right to Know) List - Right to Know Hazardous Sub <b>ROHEXANE SULFONATE (4:2</b> <b>ns</b> ia - RTK (Right to Know) List - Right to Know Hazardous Sub <b>RODECANE SULFONATE (8:2</b> )	f Hazardous Substances FTS), SODIUM SALT (UNLAF stance List FTS), SODIUM SALT (UNLAF stance List FTS), SODIUM SALT (UNLAF	BELED) <b>(27619-93-8)</b>	
U.S New York - Report 1H,1H,2H,2H-PERFLUO State or local regulation RTK - U.S Pennsylvan RTK - U.S New Jersey 1H,1H,2H,2H-PERFLUO State or local regulation RTK - U.S Pennsylvan RTK - U.S New Jersey 1H,1H,2H,2H-PERFLUO State or local regulation RTK - U.S Pennsylvan RTK - U.S Pennsylvan RTK - U.S New Jersey 1H,1H,2H,2H-PERFLUO	ting of Releases Part 597 - List o ROOCTANE SULFONATE (6:2 ns ia - RTK (Right to Know) List - Right to Know Hazardous Sub ROHEXANE SULFONATE (4:2 ns ia - RTK (Right to Know) List - Right to Know Hazardous Sub RODECANE SULFONATE (8:2 ns ia - RTK (Right to Know) List - Right to Know Hazardous Sub RODODECANE SULFONATE(1)	f Hazardous Substances FTS), SODIUM SALT (UNLAG stance List FTS), SODIUM SALT (UNLAG stance List FTS), SODIUM SALT (UNLAG stance List	BELED) <b>(27619-93-8)</b> BELED) <b>(27619-96-1)</b>	
U.S New York - Report 1H,1H,2H,2H-PERFLUO State or local regulation RTK - U.S Pennsylvan RTK - U.S New Jersey 1H,1H,2H,2H-PERFLUO State or local regulation RTK - U.S New Jersey 1H,1H,2H,2H-PERFLUO State or local regulation RTK - U.S Pennsylvan RTK - U.S New Jersey 1H,1H,2H,2H-PERFLUO State or local regulation State or local regulation	ting of Releases Part 597 - List o ROOCTANE SULFONATE (6:2 ns ia - RTK (Right to Know) List - Right to Know Hazardous Sub ROHEXANE SULFONATE (4:2 ns ia - RTK (Right to Know) List - Right to Know Hazardous Sub RODECANE SULFONATE (8:2 ns ia - RTK (Right to Know) List - Right to Know Hazardous Sub RODDECANE SULFONATE(1 ns	f Hazardous Substances FTS), SODIUM SALT (UNLAG stance List FTS), SODIUM SALT (UNLAG stance List FTS), SODIUM SALT (UNLAG stance List	BELED) <b>(27619-93-8)</b> BELED) <b>(27619-96-1)</b>	
U.S New York - Report 1H,1H,2H,2H-PERFLUO State or local regulation RTK - U.S Pennsylvan RTK - U.S New Jersey 1H,1H,2H,2H-PERFLUO State or local regulation RTK - U.S Pennsylvan RTK - U.S New Jersey 1H,1H,2H,2H-PERFLUO State or local regulation RTK - U.S New Jersey 1H,1H,2H,2H-PERFLUO State or local regulation RTK - U.S New Jersey 1H,1H,2H,2H-PERFLUO State or local regulation RTK - U.S Pennsylvan	ting of Releases Part 597 - List o ROOCTANE SULFONATE (6:2 ns ia - RTK (Right to Know) List - Right to Know Hazardous Sub ROHEXANE SULFONATE (4:2 ns ia - RTK (Right to Know) List - Right to Know Hazardous Sub RODECANE SULFONATE (8:2 ns ia - RTK (Right to Know) List - Right to Know Hazardous Sub RODODECANE SULFONATE(1)	f Hazardous Substances FTS), SODIUM SALT (UNLAG stance List FTS), SODIUM SALT (UNLAG stance List FTS), SODIUM SALT (UNLAG stance List 0:2 FTS), SODIUM SALT (UN	BELED) <b>(27619-93-8)</b> BELED) <b>(27619-96-1)</b>	
U.S New York - Report 1H,1H,2H,2H-PERFLUO State or local regulation RTK - U.S Pennsylvan RTK - U.S New Jersey 1H,1H,2H,2H-PERFLUO State or local regulation RTK - U.S Pennsylvan RTK - U.S New Jersey 1H,1H,2H,2H-PERFLUO State or local regulation RTK - U.S New Jersey 1H,1H,2H,2H-PERFLUO State or local regulation RTK - U.S New Jersey 1H,1H,2H,2H-PERFLUO State or local regulation RTK - U.S Pennsylvan RTK - U.S New Jersey N-ETHYLPERFLUOROO	ting of Releases Part 597 - List o PROOCTANE SULFONATE (6:2 ns ia - RTK (Right to Know) List - Right to Know Hazardous Sub PROHEXANE SULFONATE (4:2 ns ia - RTK (Right to Know) List - Right to Know Hazardous Sub PRODECANE SULFONATE (8:2 ns ia - RTK (Right to Know) List - Right to Know Hazardous Sub PRODODECANE SULFONATE(1 ns ia - RTK (Right to Know) List - Right to Know Hazardous Sub PRODODECANE SULFONATE(1 ns ia - RTK (Right to Know) List - Right to Know Hazardous Sub PRODODECANE SULFONATE(1 ns	f Hazardous Substances FTS), SODIUM SALT (UNLAG stance List FTS), SODIUM SALT (UNLAG stance List FTS), SODIUM SALT (UNLAG stance List 10:2 FTS), SODIUM SALT (UN stance List	BELED) <b>(27619-93-8)</b> BELED) <b>(27619-96-1)</b> NLABELED) <b>(108026-35-3)</b>	
U.S New York - Report 1H,1H,2H,2H-PERFLUO State or local regulation RTK - U.S Pennsylvan RTK - U.S New Jersey 1H,1H,2H,2H-PERFLUO State or local regulation RTK - U.S Pennsylvan RTK - U.S New Jersey 1H,1H,2H,2H-PERFLUO State or local regulation RTK - U.S New Jersey 1H,1H,2H,2H-PERFLUO State or local regulation RTK - U.S Pennsylvan RTK - U.S Pennsylvan RTK - U.S Pennsylvan RTK - U.S New Jersey 1H,1H,2H,2H-PERFLUO State or local regulation RTK - U.S New Jersey N-ETHYLPERFLUOROO State or local regulation	ting of Releases Part 597 - List o ROOCTANE SULFONATE (6:2 ns ia - RTK (Right to Know) List - Right to Know Hazardous Sub ROHEXANE SULFONATE (4:2 ns ia - RTK (Right to Know) List - Right to Know Hazardous Sub RODECANE SULFONATE (8:2 ns ia - RTK (Right to Know) List - Right to Know Hazardous Sub RODODECANE SULFONATE(1 ns ia - RTK (Right to Know) List - Right to Know Hazardous Sub RODODECANE SULFONATE(1 ns	f Hazardous Substances FTS), SODIUM SALT (UNLAG stance List FTS), SODIUM SALT (UNLAG stance List FTS), SODIUM SALT (UNLAG stance List 10:2 FTS), SODIUM SALT (UN stance List	BELED) <b>(27619-93-8)</b> BELED) <b>(27619-96-1)</b> NLABELED) <b>(108026-35-3)</b>	
U.S New York - Report 1H,1H,2H,2H-PERFLUO State or local regulation RTK - U.S Pennsylvan RTK - U.S New Jersey 1H,1H,2H,2H-PERFLUO State or local regulation RTK - U.S Pennsylvan RTK - U.S New Jersey 1H,1H,2H,2H-PERFLUO State or local regulation RTK - U.S Pennsylvan RTK - U.S New Jersey 1H,1H,2H,2H-PERFLUO State or local regulation RTK - U.S Pennsylvan RTK - U.S New Jersey 1H,1H,2H,2H-PERFLUO State or local regulation RTK - U.S New Jersey N-ETHYLPERFLUOROC State or local regulation RTK - U.S Pennsylvan	ting of Releases Part 597 - List o PROOCTANE SULFONATE (6:2 ns ia - RTK (Right to Know) List - Right to Know Hazardous Sub PROHEXANE SULFONATE (4:2 ns ia - RTK (Right to Know) List - Right to Know Hazardous Sub PRODECANE SULFONATE (8:2 ns ia - RTK (Right to Know) List - Right to Know Hazardous Sub PRODODECANE SULFONATE(1 ns ia - RTK (Right to Know) List - Right to Know Hazardous Sub PRODODECANE SULFONATE(1 ns ia - RTK (Right to Know) List - Right to Know Hazardous Sub PRODODECANE SULFONATE(1 ns	f Hazardous Substances FTS), SODIUM SALT (UNLAG stance List FTS), SODIUM SALT (UNLAG stance List FTS), SODIUM SALT (UNLAG stance List 0:2 FTS), SODIUM SALT (UN stance List C ACID UNLABELED (MIX O	BELED) <b>(27619-93-8)</b> BELED) <b>(27619-96-1)</b> NLABELED) <b>(108026-35-3)</b>	
U.S New York - Report 1H,1H,2H,2H-PERFLUO State or local regulation RTK - U.S Pennsylvan RTK - U.S New Jersey 1H,1H,2H,2H-PERFLUO State or local regulation RTK - U.S New Jersey 1H,1H,2H,2H-PERFLUO State or local regulation RTK - U.S Pennsylvan RTK - U.S New Jersey 1H,1H,2H,2H-PERFLUO State or local regulation RTK - U.S New Jersey 1H,1H,2H,2H-PERFLUO State or local regulation RTK - U.S New Jersey N-ETHYLPERFLUOROO State or local regulation RTK - U.S New Jersey N-ETHYLPERFLUOROO RTK - U.S New Jersey N-METHYLPERFLUOROO	ting of Releases Part 597 - List o ROOCTANE SULFONATE (6:2 ns ia - RTK (Right to Know) List - Right to Know Hazardous Sub ROHEXANE SULFONATE (4:2 ns ia - RTK (Right to Know) List - Right to Know Hazardous Sub RODECANE SULFONATE (8:2 ns ia - RTK (Right to Know) List - Right to Know Hazardous Sub RODODECANE SULFONATE(1 ns ia - RTK (Right to Know) List - Right to Know Hazardous Sub DCTANESULFONAMIDOACETI ns ia - RTK (Right to Know) List - Right to Know Hazardous Sub DCTANESULFONAMIDOACETI ns	f Hazardous Substances FTS), SODIUM SALT (UNLAG stance List FTS), SODIUM SALT (UNLAG stance List FTS), SODIUM SALT (UNLAG stance List 10:2 FTS), SODIUM SALT (UN stance List C ACID UNLABELED (MIX O stance List	BELED) (27619-93-8) BELED) (27619-96-1) NLABELED) (108026-35-3) F ISOMERS) (2991-50-6)	
U.S New York - Report 1H,1H,2H,2H-PERFLUO State or local regulation RTK - U.S Pennsylvan RTK - U.S New Jersey 1H,1H,2H,2H-PERFLUO State or local regulation RTK - U.S Pennsylvan RTK - U.S New Jersey 1H,1H,2H,2H-PERFLUO State or local regulation RTK - U.S Pennsylvan RTK - U.S Pennsylvan RTK - U.S New Jersey 1H,1H,2H,2H-PERFLUO State or local regulation RTK - U.S Pennsylvan RTK - U.S Pennsylvan RTK - U.S Pennsylvan RTK - U.S New Jersey N-ETHYLPERFLUOROO State or local regulation RTK - U.S New Jersey N-ETHYLPERFLUOROO State or local regulation RTK - U.S New Jersey N-METHYLPERFLUOROO State or local regulation	ting of Releases Part 597 - List o ROOCTANE SULFONATE (6:2 ns ia - RTK (Right to Know) List - Right to Know Hazardous Sub ROHEXANE SULFONATE (4:2 ns ia - RTK (Right to Know) List - Right to Know Hazardous Sub RODECANE SULFONATE (8:2 ns ia - RTK (Right to Know) List - Right to Know Hazardous Sub RODODECANE SULFONATE(1 ns ia - RTK (Right to Know) List - Right to Know Hazardous Sub DCTANESULFONAMIDOACETI ns ia - RTK (Right to Know) List - Right to Know Hazardous Sub DCTANESULFONAMIDOACETI ns	f Hazardous Substances FTS), SODIUM SALT (UNLAG stance List FTS), SODIUM SALT (UNLAG stance List FTS), SODIUM SALT (UNLAG stance List 10:2 FTS), SODIUM SALT (UN stance List C ACID UNLABELED (MIX O stance List	BELED) (27619-93-8) BELED) (27619-96-1) NLABELED) (108026-35-3) F ISOMERS) (2991-50-6)	

### Safety Data Sheet

PERFLUOROOCTANESULFONAMIDE (PFOSA) UNLABELED (MIX OF ISOMERS) (NA)
State or local regulations
RTK - U.S Pennsylvania - RTK (Right to Know) List RTK - U.S New Jersey - Right to Know Hazardous Substance List
PERFLUOROBUTANESULFONATE, POTASSIUM SALT UNLABELED (29420-49-3)
State or local regulations
RTK - U.S Pennsylvania - RTK (Right to Know) List RTK - U.S New Jersey - Right to Know Hazardous Substance List
POTASSIUM PERFLUOROHEXANESULFONATE UNLABELED (MIX OF ISOMERS) (CP 95%) (3871-99-6)
State or local regulations
RTK - U.S Pennsylvania - RTK (Right to Know) List RTK - U.S New Jersey - Right to Know Hazardous Substance List
PERFLUOROOCTANESULFONIC ACID (MIX OF ISOMERS) UNLABELED (1763-23-1)
State or local regulations
RTK - U.S Pennsylvania - RTK (Right to Know) List RTK - U.S New Jersey - Right to Know Hazardous Substance List
PERFLUOROBUTYRIC ACID, SODIUM SALT UNLABELED (2218-54-4)
State or local regulations
RTK - U.S Pennsylvania - RTK (Right to Know) List RTK - U.S New Jersey - Right to Know Hazardous Substance List
PERFLUOROPENTANOIC ACID, SODIUM SALT UNLABELED (2706-89-0)
State or local regulations
RTK - U.S Pennsylvania - RTK (Right to Know) List RTK - U.S New Jersey - Right to Know Hazardous Substance List
N-METHYLPERFLUOROOCTANESULFONAMIDE UNLABELED (31506-32-8 (Unlabeled))
State or local regulations
RTK - U.S Pennsylvania - RTK (Right to Know) List RTK - U.S New Jersey - Right to Know Hazardous Substance List
PERFLUOROHEXANOIC ACID, SODIUM SALT UNLABELED (2923-26-4)
State or local regulations
RTK - U.S Pennsylvania - RTK (Right to Know) List
RTK - U.S New Jersey - Right to Know Hazardous Substance List
RTK - U.S New Jersey - Right to Know Hazardous Substance List PERFLUOROHEPTANOIC ACID UNLABELED (375-85-9 (Unlabeled))
PERFLUOROHEPTANOIC ACID UNLABELED (375-85-9 (Unlabeled))
PERFLUOROHEPTANOIC ACID UNLABELED (375-85-9 (Unlabeled)) State or local regulations RTK - U.S Pennsylvania - RTK (Right to Know) List
PERFLUOROHEPTANOIC ACID UNLABELED (375-85-9 (Unlabeled))         State or local regulations         RTK - U.S Pennsylvania - RTK (Right to Know) List         RTK - U.S New Jersey - Right to Know Hazardous Substance List         PERFLUORO-N-OCTANOIC ACID (PFOA) UNLABELED (335-67-1)         State or local regulations
PERFLUOROHEPTANOIC ACID UNLABELED (375-85-9 (Unlabeled))         State or local regulations         RTK - U.S Pennsylvania - RTK (Right to Know) List RTK - U.S New Jersey - Right to Know Hazardous Substance List         PERFLUORO-N-OCTANOIC ACID (PFOA) UNLABELED (335-67-1)
PERFLUOROHEPTANOIC ACID UNLABELED (375-85-9 (Unlabeled))         State or local regulations         RTK - U.S Pennsylvania - RTK (Right to Know) List RTK - U.S New Jersey - Right to Know Hazardous Substance List         PERFLUORO-N-OCTANOIC ACID (PFOA) UNLABELED (335-67-1)         State or local regulations         RTK - U.S Pennsylvania - RTK (Right to Know) List RTK - U.S New Jersey - Right to Know) List RTK - U.S New Jersey - Right to Know) List RTK - U.S New Jersey - Right to Know Hazardous Substance List         PERFLUORONONANOIC ACID UNLABELED (375-95-1 (Unlabeled))
PERFLUOROHEPTANOIC ACID UNLABELED (375-85-9 (Unlabeled))         State or local regulations         RTK - U.S Pennsylvania - RTK (Right to Know) List RTK - U.S New Jersey - Right to Know Hazardous Substance List         PERFLUORO-N-OCTANOIC ACID (PFOA) UNLABELED (335-67-1)         State or local regulations         RTK - U.S Pennsylvania - RTK (Right to Know) List RTK - U.S Pennsylvania - RTK (Right to Know) List RTK - U.S Pennsylvania - RTK (Right to Know) List RTK - U.S New Jersey - Right to Know Hazardous Substance List
PERFLUOROHEPTANOIC ACID UNLABELED (375-85-9 (Unlabeled))         State or local regulations         RTK - U.S Pennsylvania - RTK (Right to Know) List RTK - U.S New Jersey - Right to Know Hazardous Substance List         PERFLUORO-N-OCTANOIC ACID (PFOA) UNLABELED (335-67-1)         State or local regulations         RTK - U.S Pennsylvania - RTK (Right to Know) List RTK - U.S New Jersey - Right to Know) List RTK - U.S New Jersey - Right to Know) List RTK - U.S New Jersey - Right to Know Hazardous Substance List         PERFLUORONONANOIC ACID UNLABELED (375-95-1 (Unlabeled))
PERFLUOROHEPTANOIC ACID UNLABELED (375-85-9 (Unlabeled))         State or local regulations         RTK - U.S Pennsylvania - RTK (Right to Know) List         RTK - U.S New Jersey - Right to Know Hazardous Substance List         PERFLUORO-N-OCTANOIC ACID (PFOA) UNLABELED (335-67-1)         State or local regulations         RTK - U.S Pennsylvania - RTK (Right to Know) List         RTK - U.S Pennsylvania - RTK (Right to Know) List         RTK - U.S New Jersey - Right to Know Hazardous Substance List         PERFLUORONONANOIC ACID UNLABELED (375-95-1 (Unlabeled))         State or local regulations         RTK - U.S Pennsylvania - RTK (Right to Know) List         RTK - U.S New Jersey - Right to Know Hazardous Substance List         PERFLUORONONANOIC ACID UNLABELED (375-95-1 (Unlabeled))         State or local regulations         RTK - U.S Pennsylvania - RTK (Right to Know) List
PERFLUOROHEPTANOIC ACID UNLABELED (375-85-9 (Unlabeled))         State or local regulations         RTK - U.S Pennsylvania - RTK (Right to Know) List         RTK - U.S New Jersey - Right to Know Hazardous Substance List         PERFLUORO-N-OCTANOIC ACID (PFOA) UNLABELED (335-67-1)         State or local regulations         RTK - U.S Pennsylvania - RTK (Right to Know) List         RTK - U.S Pennsylvania - RTK (Right to Know) List         RTK - U.S New Jersey - Right to Know Hazardous Substance List         PERFLUORONONANOIC ACID UNLABELED (375-95-1 (Unlabeled))         State or local regulations         RTK - U.S Pennsylvania - RTK (Right to Know) List         RTK - U.S New Jersey - Right to Know) List         RTK - U.S New Jersey - Right to Know) List         RTK - U.S New Jersey - Right to Know) List         RTK - U.S New Jersey - Right to Know) List         RTK - U.S New Jersey - Right to Know) List         RTK - U.S New Jersey - Right to Know) List         RTK - U.S New Jersey - Right to Know Hazardous Substance List

### 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

PERFLUOROUNDECANOIC ACID, SODIUM SALT UNLABELED (60871-96-7)
State or local regulations
RTK – U.S. – Pennsylvania – RTK (Right to Know) List RTK – U.S. – New Jersey – Right to Know Hazardous Substance List
PERFLUORODODECANOIC ACID, SODIUM SALT UNLABELED (307-67-5)
State or local regulations
RTK – U.S. – Pennsylvania – RTK (Right to Know) List RTK – U.S. – New Jersey – Right to Know Hazardous Substance List
PERFLUOROTETRADECANOIC ACID UNLABELED (96% CHEMICAL PURITY) (376-06-7)
State or local regulations
RTK – U.S. – Pennsylvania – RTK (Right to Know) List RTK – U.S. – New Jersey – Right to Know Hazardous Substance List
PERFLUOROHEXADECANOIC ACID UNLABELED (67905-19-5)
State or local regulations
RTK – U.S. – Pennsylvania – RTK (Right to Know) List RTK – U.S. – New Jersey – Right to Know Hazardous Substance List
PERFLUOROOCTADECANOIC ACID UNLABELED (16517-11-6)
State or local regulations
RTK – U.S. – Pennsylvania – RTK (Right to Know) List RTK – U.S. – New Jersey – Right to Know Hazardous Substance List
SODIUM HYDROXIDE UNLABELED (1310-73-2 (Unlabeled))
State or local regulations
RTK – U.S. – Massachusetts – Right To Know List RTK – U.S. – Pennsylvania – RTK (Right to Know) List RTK – U.S. – New Jersey – Right to Know Hazardous Substance 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:

$10^{11}$	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhalation) 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 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Aquatic Chronic 4	Hazardous to the aquatic environment - Chronic Hazard 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.)
Met. Corr. 1	Corrosive to metals Category 1
Repr. 1A	Reproductive toxicity Category 1A
Skin Corr. 1	Skin corrosion/irritation Category 1
Skin Corr. 1A	Skin corrosion/irritation Category 1A
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Irrit. 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
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
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### 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

H225	Highly 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 damage
H331	Toxic if inhaled
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H350	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
H370 H372	
	Causes damage to organs through prolonged or repeated exposure
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
R11	Highly flammable
R20	Harmful by inhalation
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R22	Harmful if swallowed
R23/25	Toxic by inhalation and if swallowed
R25	Toxic if swallowed
R34	Causes burns
R35	Causes severe burns
R36/37/38	Irritating to eyes, respiratory system and skin
R36/38	Irritating to eyes and skin
R37	Irritating to respiratory system
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
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R52	Harmful to aquatic organisms
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R53	May cause long-term adverse effects in the aquatic environment
R60	May impair fertility
R61	May cause harm to the unborn child
С	Corrosive
F	Highly flammable
Ν	Dangerous for the environment
Т	Toxic
Xi	Irritant
Xn	Harmful

NFPA health hazard

NFPA fire hazard

NFPA reactivity

- : 2 Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
- : 3 Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.
- : 0 Material that in themselves are normally stable, even under fire conditions.



### 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

### **Hazard Rating**

Flammability

Health

Physical

: 2 Moderate Hazard - Temporary or minor injury may occur

- : 3 Serious Hazard
  - : 0 Minimal Hazard

**CIL Mixture SDS** 

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