Conforms to US OSHA Hazard Communication 29CFR1910.1200

SAFETY DATA SHEET

Agilent Technologies

ES-TOF Biopolymer Analysis Reference Mass Standards Kit, Part Number G1969-85003

Section 1. Identification

1.1 Product identifier

Product name : ES-TOF Biopolymer Analysis Reference Mass Standards Kit, Part Number G1969-85003

Part No. (Chemical Kit) : G1969-85003

Part No. :

1.0 M Ammonium formate in deionized, nanopure water	Compound 1
5mM Purine in Acetonitrile Solution	Compound 2
0.5 mM Tris(2,4,6-trifluoromethyl)-1,3,5 triazine in acetonitrile	Compound 3
0.1 mM Hexamethoxyphosphazine in acetonitrile	Compound 4
0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	Compound 5
0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	Compound 6
0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy)phosphazine in acetonitrile	Compound 7

Validation date : 1/20/2018

1.2 Relevant identified uses of the substance or mixture and uses advised against

Material uses : Reagents and Standards for Analytical Chemistry Laboratory Use

1.0 M Ammonium formate in deionized, nanopure water	2.2 ml
5mM Purine in Acetonitrile Solution	2.2 ml
0.5 mM Tris(2,4,6-trifluoromethyl)-1,3,5 triazine in acetonitrile	2.2 ml
0.1 mM Hexamethoxyphosphazine in acetonitrile	2.2 ml
0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy) phosphazine in acetonitrile	2.2 ml
0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy) phosphazine in acetonitrile	2.2 ml
0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy)phosphazine in acetonitrile	2.2 ml

1.3 Details of the supplier of the safety data sheet

Supplier/Manufacturer : Agilent Technologies, Inc.
5301 Stevens Creek Blvd
Santa Clara, CA 95051, USA
800-227-9770

1.4 Emergency telephone number

In case of emergency : CHEMTREC®: 1-800-424-9300

Section 2. Hazards identification

2.1 Classification of the substance or mixture

OSHA/HCS status :

1.0 M Ammonium formate in deionized, nanopure water	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910. 1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
5mM Purine in Acetonitrile Solution	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
0.5 mM Tris(2,4, 6-trifluoromethyl)-1,3,5 triazine in acetonitrile	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
0.1 mM Hexamethoxyphosphazine in acetonitrile	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy) phosphazine in acetonitrile	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy) phosphazine in acetonitrile	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

5mM Purine in Acetonitrile Solution

H225	FLAMMABLE LIQUIDS - Category 2
H302	ACUTE TOXICITY (oral) - Category 4
H312	ACUTE TOXICITY (dermal) - Category 4
H332	ACUTE TOXICITY (inhalation) - Category 4
H319	EYE IRRITATION - Category 2A
H373	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2

0.5 mM Tris(2,4, 6-trifluoromethyl)-1,3,5 triazine in acetonitrile

H225	FLAMMABLE LIQUIDS - Category 2
H302	ACUTE TOXICITY (oral) - Category 4
H312	ACUTE TOXICITY (dermal) - Category 4
H332	ACUTE TOXICITY (inhalation) - Category 4
H319	EYE IRRITATION - Category 2A
H373	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2

0.1 mM Hexamethoxyphosphazine in acetonitrile

H225	FLAMMABLE LIQUIDS - Category 2
H302	ACUTE TOXICITY (oral) - Category 4
H312	ACUTE TOXICITY (dermal) - Category 4
H332	ACUTE TOXICITY (inhalation) - Category 4
H319	EYE IRRITATION - Category 2A
H373	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2

Section 2. Hazards identification

0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy) phosphazine in acetonitrile

H225	FLAMMABLE LIQUIDS - Category 2
H302	ACUTE TOXICITY (oral) - Category 4
H312	ACUTE TOXICITY (dermal) - Category 4
H332	ACUTE TOXICITY (inhalation) - Category 4
H319	EYE IRRITATION - Category 2A
H373	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2

0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy) phosphazine in acetonitrile

H225	FLAMMABLE LIQUIDS - Category 2
H302	ACUTE TOXICITY (oral) - Category 4
H312	ACUTE TOXICITY (dermal) - Category 4
H332	ACUTE TOXICITY (inhalation) - Category 4
H319	EYE IRRITATION - Category 2A
H373	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2

0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile

H225	FLAMMABLE LIQUIDS - Category 2
H302	ACUTE TOXICITY (oral) - Category 4
H312	ACUTE TOXICITY (dermal) - Category 4
H332	ACUTE TOXICITY (inhalation) - Category 4
H319	EYE IRRITATION - Category 2A
H373	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2

Ingredients of unknown toxicity : 1.0 M Ammonium formate in deionized, nanopure water

Percentage of the mixture consisting of ingredient (s) of unknown dermal toxicity: 1 - 10%
Percentage of the mixture consisting of ingredient (s) of unknown inhalation toxicity: 1 - 10%
Percentage of the mixture consisting of ingredient (s) of unknown oral toxicity: 1 - 10%

2.2 GHS label elements

Section 2. Hazards identification

Hazard pictograms :

5mM Purine in Acetonitrile Solution

0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile

0.1 mM Hexamethoxyphosphazine in acetonitrile

0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile

0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile

0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile

Signal word :

1.0 M Ammonium formate in deionized, nanopure water	No signal word.
5mM Purine in Acetonitrile Solution	Danger
0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	Danger
0.1 mM Hexamethoxyphosphazine in acetonitrile	Danger
0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	Danger
0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	Danger
0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	Danger

Hazard statements :

1.0 M Ammonium formate in deionized, nanopure water	No known significant effects or critical hazards.
5mM Purine in Acetonitrile Solution	H225 - Highly flammable liquid and vapor. H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled. H319 - Causes serious eye irritation. H373 - May cause damage to organs through prolonged or repeated exposure. (blood system, central nervous system (CNS), kidneys, liver)
0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	H225 - Highly flammable liquid and vapor.

Section 2. Hazards identification

		H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled. H319 - Causes serious eye irritation. H373 - May cause damage to organs through prolonged or repeated exposure. (blood system, central nervous system (CNS), kidneys, liver)
	0.1 mM Hexamethoxyphosphazine in acetonitrile	H225 - Highly flammable liquid and vapor.
		H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled. H319 - Causes serious eye irritation. H373 - May cause damage to organs through prolonged or repeated exposure. (blood system, central nervous system (CNS), kidneys, liver)
	0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	H225 - Highly flammable liquid and vapor.
		H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled. H319 - Causes serious eye irritation. H373 - May cause damage to organs through prolonged or repeated exposure. (blood system, central nervous system (CNS), kidneys, liver)
	0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	H225 - Highly flammable liquid and vapor.
		H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled. H319 - Causes serious eye irritation. H373 - May cause damage to organs through prolonged or repeated exposure. (blood system, central nervous system (CNS), kidneys, liver)
	0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	H225 - Highly flammable liquid and vapor.
		H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled. H319 - Causes serious eye irritation. H373 - May cause damage to organs through prolonged or repeated exposure. (blood system, central nervous system (CNS), kidneys, liver)

Precautionary statements

Prevention	: 1.0 M Ammonium formate in deionized, nanopure water	Not applicable.
	5mM Purine in Acetonitrile Solution	P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P233 - Keep container tightly closed. P271 - Use only outdoors or in a well-ventilated area. P260 - Do not breathe vapor. P270 - Do not eat, drink or smoke when using this

Section 2. Hazards identification

	product. P264 - Wash hands thoroughly after handling.
0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P233 - Keep container tightly closed. P271 - Use only outdoors or in a well-ventilated area. P260 - Do not breathe vapor. P270 - Do not eat, drink or smoke when using this product. P264 - Wash hands thoroughly after handling.
0.1 mM Hexamethoxyphosphazine in acetonitrile	P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P233 - Keep container tightly closed. P271 - Use only outdoors or in a well-ventilated area. P260 - Do not breathe vapor. P270 - Do not eat, drink or smoke when using this product. P264 - Wash hands thoroughly after handling.
0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P233 - Keep container tightly closed. P271 - Use only outdoors or in a well-ventilated area. P260 - Do not breathe vapor. P270 - Do not eat, drink or smoke when using this product. P264 - Wash hands thoroughly after handling.
0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

Section 2. Hazards identification

			smoking. P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P233 - Keep container tightly closed. P271 - Use only outdoors or in a well-ventilated area. P260 - Do not breathe vapor. P270 - Do not eat, drink or smoke when using this product. P264 - Wash hands thoroughly after handling.
		0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P233 - Keep container tightly closed. P271 - Use only outdoors or in a well-ventilated area. P260 - Do not breathe vapor. P270 - Do not eat, drink or smoke when using this product. P264 - Wash hands thoroughly after handling.
Response	:	1.0 M Ammonium formate in deionized, nanopure water 5mM Purine in Acetonitrile Solution	Not applicable. P314 - Get medical attention if you feel unwell. P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P302 + P352 + P312 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing and wash it before reuse. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	P314 - Get medical attention if you feel unwell.

Section 2. Hazards identification

	P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P302 + P352 + P312 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing and wash it before reuse. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.
0.1 mM Hexamethoxyphosphazine in acetonitrile	P314 - Get medical attention if you feel unwell. P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P302 + P352 + P312 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing and wash it before reuse. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.
0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	P314 - Get medical attention if you feel unwell. P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P302 + P352 + P312 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Call a

Section 2. Hazards identification

	POISON CENTER or physician if you feel unwell. Take off contaminated clothing and wash it before reuse. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.
0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	P314 - Get medical attention if you feel unwell. P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P302 + P352 + P312 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing and wash it before reuse. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.
0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	P314 - Get medical attention if you feel unwell. P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P302 + P352 + P312 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing and wash it before reuse. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.

Section 2. Hazards identification

Storage	:	1.0 M Ammonium formate in deionized, nanopure water	Not applicable.
		5mM Purine in Acetonitrile Solution	P403 - Store in a well-ventilated place. P235 - Keep cool.
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	P403 - Store in a well-ventilated place. P235 - Keep cool.
		0.1 mM Hexamethoxyphosphazine in acetonitrile	P403 - Store in a well-ventilated place. P235 - Keep cool.
		0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	P403 - Store in a well-ventilated place. P235 - Keep cool.
		0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	P403 - Store in a well-ventilated place. P235 - Keep cool.
		0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	P403 - Store in a well-ventilated place. P235 - Keep cool.
Disposal	:	1.0 M Ammonium formate in deionized, nanopure water	Not applicable.
		5mM Purine in Acetonitrile Solution	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
		0.1 mM Hexamethoxyphosphazine in acetonitrile	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
		0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
		0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
		0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	:	1.0 M Ammonium formate in deionized, nanopure water	None known.
		5mM Purine in Acetonitrile Solution	None known.
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	None known.
		0.1 mM Hexamethoxyphosphazine in acetonitrile	None known.
		0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	None known.
		0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	None known.
		0.5 mM Hexakis(1H,1H,8H-	None known.

Section 2. Hazards identification

tetradecafluorooctyloxy) phosphazine in acetonitrile

2.3 Other hazards

Hazards not otherwise classified :

1.0 M Ammonium formate in deionized, nanopure water	None known.
5mM Purine in Acetonitrile Solution	None known.
0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	None known.
0.1 mM Hexamethoxyphosphazine in acetonitrile	None known.
0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	None known.
0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	None known.
0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	None known.

Section 3. Composition/information on ingredients

Substance/mixture :

1.0 M Ammonium formate in deionized, nanopure water	Mixture
5mM Purine in Acetonitrile Solution	Mixture
0.5 mM Tris(2,4,6-trifluoromethyl)-1,3, 5 triazine in acetonitrile	Mixture
0.1 mM Hexamethoxyphosphazine in acetonitrile	Mixture
0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	Mixture
0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	Mixture
0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy)phosphazine in acetonitrile	Mixture

Ingredient name	%	CAS number
1.0 M Ammonium formate in deionized, nanopure water		
Ammonium formate	<10	540-69-2
5mM Purine in Acetonitrile Solution		
Acetonitrile	≥75 - ≤90	75-05-8
0.5 mM Tris(2,4,6-trifluoromethyl)-1,3,5 triazine in acetonitrile		
Acetonitrile	≥90	75-05-8
0.1 mM Hexamethoxyphosphazine in acetonitrile		
Acetonitrile	≥90	75-05-8
0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile		
Acetonitrile	≥90	75-05-8

Section 3. Composition/information on ingredients

0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile		
Acetonitrile	≥90	75-05-8
0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy)phosphazine in acetonitrile		
Acetonitrile	≥90	75-05-8

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

4.1 Description of necessary first aid measures

Eye contact :

1.0 M Ammonium formate in deionized, nanopure water	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
5mM Purine in Acetonitrile Solution	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
0.1 mM Hexamethoxyphosphazine in acetonitrile	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation :

1.0 M Ammonium formate in deionized, nanopure water	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Section 4. First aid measures

5mM Purine in Acetonitrile Solution	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention following exposure or if feeling unwell. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention following exposure or if feeling unwell. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
0.1 mM Hexamethoxyphosphazine in acetonitrile	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention following exposure or if feeling unwell. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is

Section 4. First aid measures

acetonitrile	suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention following exposure or if feeling unwell. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention following exposure or if feeling unwell. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention following exposure or if feeling unwell. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Section 4. First aid measures

Skin contact :

1.0 M Ammonium formate in deionized, nanopure water	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
5mM Purine in Acetonitrile Solution	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
0.1 mM Hexamethoxyphosphazine in acetonitrile	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion :

1.0 M Ammonium formate in deionized, nanopure water	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
5mM Purine in Acetonitrile	Wash out mouth with water. Remove dentures if

Section 4. First aid measures

Solution	any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
0.1 mM Hexamethoxyphosphazine in acetonitrile	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person.

Section 4. First aid measures

	If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	:	1.0 M Ammonium formate in deionized, nanopure water	No known significant effects or critical hazards.
		5mM Purine in Acetonitrile Solution	Causes serious eye irritation.
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	Causes serious eye irritation.
		0.1 mM Hexamethoxyphosphazine in acetonitrile	Causes serious eye irritation.
		0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	Causes serious eye irritation.
		0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	Causes serious eye irritation.
		0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	Causes serious eye irritation.

Section 4. First aid measures

Inhalation	:	1.0 M Ammonium formate in deionized, nanopure water	No known significant effects or critical hazards.
		5mM Purine in Acetonitrile Solution	Harmful if inhaled.
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	Harmful if inhaled.
		0.1 mM Hexamethoxyphosphazine in acetonitrile	Harmful if inhaled.
		0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	Harmful if inhaled.
		0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	Harmful if inhaled.
		0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	Harmful if inhaled.
Skin contact	:	1.0 M Ammonium formate in deionized, nanopure water	No known significant effects or critical hazards.
		5mM Purine in Acetonitrile Solution	Harmful in contact with skin.
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	Harmful in contact with skin.
		0.1 mM Hexamethoxyphosphazine in acetonitrile	Harmful in contact with skin.
		0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	Harmful in contact with skin.
		0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	Harmful in contact with skin.
		0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	Harmful in contact with skin.
Ingestion	:	1.0 M Ammonium formate in deionized, nanopure water	No known significant effects or critical hazards.
		5mM Purine in Acetonitrile Solution	Harmful if swallowed.
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	Harmful if swallowed.
		0.1 mM Hexamethoxyphosphazine in acetonitrile	Harmful if swallowed.
		0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	Harmful if swallowed.
		0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	Harmful if swallowed.
		0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	Harmful if swallowed.

Over-exposure signs/symptoms

Section 4. First aid measures

Eye contact :

1.0 M Ammonium formate in deionized, nanopure water	No specific data.
5mM Purine in Acetonitrile Solution	Adverse symptoms may include the following: pain or irritation watering redness
0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	Adverse symptoms may include the following: pain or irritation watering redness
0.1 mM Hexamethoxyphosphazine in acetonitrile	Adverse symptoms may include the following: pain or irritation watering redness
0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	Adverse symptoms may include the following: pain or irritation watering redness
0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	Adverse symptoms may include the following: pain or irritation watering redness
0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	Adverse symptoms may include the following: pain or irritation watering redness

Inhalation :

1.0 M Ammonium formate in deionized, nanopure water	No specific data.
5mM Purine in Acetonitrile Solution	No specific data.
0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	No specific data.
0.1 mM Hexamethoxyphosphazine in acetonitrile	No specific data.
0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	No specific data.
0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	No specific data.
0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	No specific data.

Section 4. First aid measures

Skin contact	:	1.0 M Ammonium formate in deionized, nanopure water	No specific data.
		5mM Purine in Acetonitrile Solution	No specific data.
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	No specific data.
		0.1 mM Hexamethoxyphosphazine in acetonitrile	No specific data.
		0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	No specific data.
		0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	No specific data.
		0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	No specific data.
Ingestion	:	1.0 M Ammonium formate in deionized, nanopure water	No specific data.
		5mM Purine in Acetonitrile Solution	No specific data.
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	No specific data.
		0.1 mM Hexamethoxyphosphazine in acetonitrile	No specific data.
		0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	No specific data.
		0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	No specific data.
		0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	No specific data.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	:	1.0 M Ammonium formate in deionized, nanopure water	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
		5mM Purine in Acetonitrile Solution	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
		0.1 mM Hexamethoxyphosphazine in acetonitrile	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
		0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
		0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed

Section 4. First aid measures

		in acetonitrile	person may need to be kept under medical surveillance for 48 hours.
		0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	:	1.0 M Ammonium formate in deionized, nanopure water	No specific treatment.
		5mM Purine in Acetonitrile Solution	No specific treatment.
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	No specific treatment.
		0.1 mM Hexamethoxyphosphazine in acetonitrile	No specific treatment.
		0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	No specific treatment.
		0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	No specific treatment.
		0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	No specific treatment.
Protection of first-aiders	:	1.0 M Ammonium formate in deionized, nanopure water	No action shall be taken involving any personal risk or without suitable training.
		5mM Purine in Acetonitrile Solution	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
		0.1 mM Hexamethoxyphosphazine in acetonitrile	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
		0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
		0.2 mM Hexakis(1H,1H,6H-	No action shall be taken involving any personal risk

Section 4. First aid measures

decafluorohexyloxy)phosphazine in acetonitrile	or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	: 1.0 M Ammonium formate in deionized, nanopure water	Use an extinguishing agent suitable for the surrounding fire.
	5mM Purine in Acetonitrile Solution	Use dry chemical, CO_2, water spray (fog) or foam.
	0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	Use dry chemical, CO_2, water spray (fog) or foam.
	0.1 mM Hexamethoxyphosphazine in acetonitrile	Use dry chemical, CO_2, water spray (fog) or foam.
	0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	Use dry chemical, CO_2, water spray (fog) or foam.
	0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	Use dry chemical, CO_2, water spray (fog) or foam.
	0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	Use dry chemical, CO_2, water spray (fog) or foam.
Unsuitable extinguishing media	: 1.0 M Ammonium formate in deionized, nanopure water	None known.
	5mM Purine in Acetonitrile Solution	Do not use water jet.
	0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	Do not use water jet.
	0.1 mM Hexamethoxyphosphazine in acetonitrile	Do not use water jet.
	0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	Do not use water jet.
	0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	Do not use water jet.
	0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Section 5. Fire-fighting measures

Specific hazards arising from the chemical :	1.0 M Ammonium formate in deionized, nanopure water 5mM Purine in Acetonitrile Solution	In a fire or if heated, a pressure increase will occur and the container may burst. Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.
	0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.
	0.1 mM Hexamethoxyphosphazine in acetonitrile	Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.
	0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.
	0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.
	0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

Section 5. Fire-fighting measures

Hazardous thermal decomposition products	:	1.0 M Ammonium formate in deionized, nanopure water	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
		5mM Purine in Acetonitrile Solution	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides cyanides
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides cyanides
		0.1 mM Hexamethoxyphosphazine in acetonitrile	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides cyanides
		0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides cyanides
		0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides cyanides
		0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides cyanides

5.3 Advice for firefighters

Special protective actions for fire-fighters	:	1.0 M Ammonium formate in deionized, nanopure water	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
		5mM Purine in Acetonitrile Solution	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
		0.5 mM Tris(2,4,6-trifluoromethyl)	Promptly isolate the scene by removing all persons

Section 5. Fire-fighting measures

	-1,3,5 triazine in acetonitrile	from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
	0.1 mM Hexamethoxyphosphazine in acetonitrile	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
	0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
	0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
	0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters :	1.0 M Ammonium formate in deionized, nanopure water	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	5mM Purine in Acetonitrile Solution	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	0.1 mM Hexamethoxyphosphazine in acetonitrile	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: 1.0 M Ammonium formate in deionized, nanopure water	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
	5mM Purine in Acetonitrile Solution	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	0.1 mM Hexamethoxyphosphazine in acetonitrile	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	0.5 mM Hexakis(1H,1H,8H-	No action shall be taken involving any personal

Section 6. Accidental release measures

	tetradecafluorooctyloxy) phosphazine in acetonitrile	risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders :	1.0 M Ammonium formate in deionized, nanopure water	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	5mM Purine in Acetonitrile Solution	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	0.1 mM Hexamethoxyphosphazine in acetonitrile	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions :	1.0 M Ammonium formate in deionized, nanopure water	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	5mM Purine in Acetonitrile Solution	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	0.1 mM Hexamethoxyphosphazine in acetonitrile	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Section 6. Accidental release measures

0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up :

1.0 M Ammonium formate in deionized, nanopure water	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
5mM Purine in Acetonitrile Solution	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
0.1 mM Hexamethoxyphosphazine in acetonitrile	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 6. Accidental release measures

0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

7.1 Precautions for safe handling

Protective measures	:	1.0 M Ammonium formate in deionized, nanopure water	Put on appropriate personal protective equipment (see Section 8).
		5mM Purine in Acetonitrile Solution	Put on appropriate personal protective equipment (see Section 8). Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	Put on appropriate personal protective equipment (see Section 8). Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
		0.1 mM Hexamethoxyphosphazine in acetonitrile	Put on appropriate personal protective equipment (see Section 8). Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating,

Section 7. Handling and storage

	lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	Put on appropriate personal protective equipment (see Section 8). Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	Put on appropriate personal protective equipment (see Section 8). Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	Put on appropriate personal protective equipment (see Section 8). Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Section 7. Handling and storage

Advice on general occupational hygiene	: 1.0 M Ammonium formate in deionized, nanopure water	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	5mM Purine in Acetonitrile Solution	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	0.1 mM Hexamethoxyphosphazine in acetonitrile	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
7.2 Conditions for safe storage, including any incompatibilities	: 1.0 M Ammonium formate in deionized, nanopure water	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled

Section 7. Handling and storage

	containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
5mM Purine in Acetonitrile Solution	Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
0.1 mM Hexamethoxyphosphazine in acetonitrile	Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 7. Handling and storage

	0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations	:	1.0 M Ammonium formate in deionized, nanopure water	Industrial applications, Professional applications.
		5mM Purine in Acetonitrile Solution	Industrial applications, Professional applications.
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	Industrial applications, Professional applications.
		0.1 mM Hexamethoxyphosphazine in acetonitrile	Industrial applications, Professional applications.
		0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	Industrial applications, Professional applications.
		0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	Industrial applications, Professional applications.
		0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	Industrial applications, Professional applications.
Industrial sector specific solutions	:	1.0 M Ammonium formate in deionized, nanopure water	Not applicable.
		5mM Purine in Acetonitrile Solution	Not applicable.
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	Not applicable.
		0.1 mM Hexamethoxyphosphazine in acetonitrile	Not applicable.
		0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	Not applicable.

Section 7. Handling and storage

0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	Not applicable.
0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	Not applicable.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
1.0 M Ammonium formate in deionized, nanopure water Ammonium formate	None.
5mM Purine in Acetonitrile Solution Acetonitrile	**ACGIH TLV (United States, 3/2017).** **Absorbed through skin.** TWA: 20 ppm 8 hours. **OSHA PEL 1989 (United States, 3/1989).** TWA: 40 ppm 8 hours. TWA: 70 mg/m³ 8 hours. STEL: 60 ppm 15 minutes. STEL: 105 mg/m³ 15 minutes. **NIOSH REL (United States, 10/2016).** TWA: 20 ppm 10 hours. TWA: 34 mg/m³ 10 hours. **OSHA PEL (United States, 6/2016).** TWA: 40 ppm 8 hours. TWA: 70 mg/m³ 8 hours.
0.5 mM Tris(2,4,6-trifluoromethyl)-1,3,5 triazine in acetonitrile Acetonitrile	**ACGIH TLV (United States, 3/2017).** **Absorbed through skin.** TWA: 20 ppm 8 hours. **OSHA PEL 1989 (United States, 3/1989).** TWA: 40 ppm 8 hours. TWA: 70 mg/m³ 8 hours. STEL: 60 ppm 15 minutes. STEL: 105 mg/m³ 15 minutes. **NIOSH REL (United States, 10/2016).** TWA: 20 ppm 10 hours. TWA: 34 mg/m³ 10 hours. **OSHA PEL (United States, 6/2016).** TWA: 40 ppm 8 hours. TWA: 70 mg/m³ 8 hours.
0.1 mM Hexamethoxyphosphazine in acetonitrile Acetonitrile	**ACGIH TLV (United States, 3/2017).** **Absorbed through skin.** TWA: 20 ppm 8 hours. **OSHA PEL 1989 (United States, 3/1989).** TWA: 40 ppm 8 hours. TWA: 70 mg/m³ 8 hours. STEL: 60 ppm 15 minutes. STEL: 105 mg/m³ 15 minutes. **NIOSH REL (United States, 10/2016).**

Section 8. Exposure controls/personal protection

	TWA: 20 ppm 10 hours. TWA: 34 mg/m³ 10 hours. **OSHA PEL (United States, 6/2016).** TWA: 40 ppm 8 hours. TWA: 70 mg/m³ 8 hours.
0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	
Acetonitrile	**ACGIH TLV (United States, 3/2017).** **Absorbed through skin.** TWA: 20 ppm 8 hours. **OSHA PEL 1989 (United States, 3/1989).** TWA: 40 ppm 8 hours. TWA: 70 mg/m³ 8 hours. STEL: 60 ppm 15 minutes. STEL: 105 mg/m³ 15 minutes. **NIOSH REL (United States, 10/2016).** TWA: 20 ppm 10 hours. TWA: 34 mg/m³ 10 hours. **OSHA PEL (United States, 6/2016).** TWA: 40 ppm 8 hours. TWA: 70 mg/m³ 8 hours.
0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	
Acetonitrile	**ACGIH TLV (United States, 3/2017).** **Absorbed through skin.** TWA: 20 ppm 8 hours. **OSHA PEL 1989 (United States, 3/1989).** TWA: 40 ppm 8 hours. TWA: 70 mg/m³ 8 hours. STEL: 60 ppm 15 minutes. STEL: 105 mg/m³ 15 minutes. **NIOSH REL (United States, 10/2016).** TWA: 20 ppm 10 hours. TWA: 34 mg/m³ 10 hours. **OSHA PEL (United States, 6/2016).** TWA: 40 ppm 8 hours. TWA: 70 mg/m³ 8 hours.
0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy)phosphazine in acetonitrile	
Acetonitrile	**ACGIH TLV (United States, 3/2017).** **Absorbed through skin.** TWA: 20 ppm 8 hours. **OSHA PEL 1989 (United States, 3/1989).** TWA: 40 ppm 8 hours. TWA: 70 mg/m³ 8 hours. STEL: 60 ppm 15 minutes. STEL: 105 mg/m³ 15 minutes. **NIOSH REL (United States, 10/2016).** TWA: 20 ppm 10 hours. TWA: 34 mg/m³ 10 hours. **OSHA PEL (United States, 6/2016).** TWA: 40 ppm 8 hours. TWA: 70 mg/m³ 8 hours.

Section 8. Exposure controls/personal protection

8.2 Exposure controls

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state :

1.0 M Ammonium formate in deionized, nanopure water	Liquid.
5mM Purine in Acetonitrile Solution	Liquid.
0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	Liquid.
0.1 mM Hexamethoxyphosphazine in acetonitrile	Liquid.

Section 9. Physical and chemical properties

		0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	Liquid.
		0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	Liquid.
		0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	Liquid.
Color	:	1.0 M Ammonium formate in deionized, nanopure water	Not available.
		5mM Purine in Acetonitrile Solution	Not available.
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	Not available.
		0.1 mM Hexamethoxyphosphazine in acetonitrile	Not available.
		0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	Not available.
		0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	Not available.
		0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	Not available.
Odor	:	1.0 M Ammonium formate in deionized, nanopure water	Not available.
		5mM Purine in Acetonitrile Solution	Ether-like
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	Ether-like
		0.1 mM Hexamethoxyphosphazine in acetonitrile	Ether-like
		0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	Ether-like
		0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	Ether-like
		0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	Ether-like
Odor threshold	:	1.0 M Ammonium formate in deionized, nanopure water	Not available.
		5mM Purine in Acetonitrile Solution	70 ppm
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	70 ppm
		0.1 mM Hexamethoxyphosphazine in acetonitrile	70 ppm
		0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	70 ppm
		0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	70 ppm
		0.5 mM Hexakis(1H,1H,8H-	70 ppm

Section 9. Physical and chemical properties

		tetradecafluorooctyloxy) phosphazine in acetonitrile	
pH	:	1.0 M Ammonium formate in deionized, nanopure water	Not available.
		5mM Purine in Acetonitrile Solution	Not available.
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	Not available.
		0.1 mM Hexamethoxyphosphazine in acetonitrile	Not available.
		0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	Not available.
		0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	Not available.
		0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	Not available.
Melting point	:	1.0 M Ammonium formate in deionized, nanopure water	Not available.
		5mM Purine in Acetonitrile Solution	-45°C (-49°F)
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	-45°C (-49°F)
		0.1 mM Hexamethoxyphosphazine in acetonitrile	-45°C (-49°F)
		0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	-45°C (-49°F)
		0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	-45°C (-49°F)
		0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	-45°C (-49°F)
Boiling point	:	1.0 M Ammonium formate in deionized, nanopure water	Not available.
		5mM Purine in Acetonitrile Solution	Not available.
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	81.6°C (178.9°F)
		0.1 mM Hexamethoxyphosphazine in acetonitrile	81.6°C (178.9°F)
		0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	81.6°C (178.9°F)
		0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	81.6°C (178.9°F)
		0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	81.6°C (178.9°F)

Section 9. Physical and chemical properties

Flash point	:	1.0 M Ammonium formate in deionized, nanopure water	Not available.
		5mM Purine in Acetonitrile Solution	Closed cup: -18 to 23°C (-0.4 to 73.4°F)
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	Closed cup: 12.8°C (55°F)
		0.1 mM Hexamethoxyphosphazine in acetonitrile	Closed cup: 12.8°C (55°F)
		0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	Closed cup: 12.8°C (55°F)
		0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	Closed cup: 12.8°C (55°F)
		0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	Closed cup: 12.8°C (55°F)
Evaporation rate	:	1.0 M Ammonium formate in deionized, nanopure water	Not available.
		5mM Purine in Acetonitrile Solution	5.79 (butyl acetate = 1)
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	5.79 (butyl acetate = 1)
		0.1 mM Hexamethoxyphosphazine in acetonitrile	5.79 (butyl acetate = 1)
		0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	5.79 (butyl acetate = 1)
		0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	5.79 (butyl acetate = 1)
		0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	5.79 (butyl acetate = 1)
Flammability (solid, gas)	:	1.0 M Ammonium formate in deionized, nanopure water	Not applicable.
		5mM Purine in Acetonitrile Solution	Not applicable.
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	Not applicable.
		0.1 mM Hexamethoxyphosphazine in acetonitrile	Not applicable.
		0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	Not applicable.
		0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	Not applicable.
		0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	Not applicable.

Section 9. Physical and chemical properties

Lower and upper explosive (flammable) limits	:	1.0 M Ammonium formate in deionized, nanopure water	Not available.
		5mM Purine in Acetonitrile Solution	Lower: 4.4% Upper: 16%
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	Lower: 4.4% Upper: 16%
		0.1 mM Hexamethoxyphosphazine in acetonitrile	Lower: 4.4% Upper: 16%
		0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	Lower: 4.4% Upper: 16%
		0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	Lower: 4.4% Upper: 16%
		0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	Lower: 4.4% Upper: 16%
Vapor pressure	:	1.0 M Ammonium formate in deionized, nanopure water	Not available.
		5mM Purine in Acetonitrile Solution	11.6 kPa (87 mm Hg) [room temperature]
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	11.6 kPa (87 mm Hg) [room temperature]
		0.1 mM Hexamethoxyphosphazine in acetonitrile	11.6 kPa (87 mm Hg) [room temperature]
		0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	11.6 kPa (87 mm Hg) [room temperature]
		0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	11.6 kPa (87 mm Hg) [room temperature]
		0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	11.6 kPa (87 mm Hg) [room temperature]
Vapor density	:	1.0 M Ammonium formate in deionized, nanopure water	Not available.
		5mM Purine in Acetonitrile Solution	1.42 [Air = 1]
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	1.42 [Air = 1]
		0.1 mM Hexamethoxyphosphazine in acetonitrile	1.42 [Air = 1]
		0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	1.42 [Air = 1]
		0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	1.42 [Air = 1]
		0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	1.42 [Air = 1]

Section 9. Physical and chemical properties

Relative density	:	1.0 M Ammonium formate in deionized, nanopure water	Not available.
		5mM Purine in Acetonitrile Solution	0.787
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	0.787
		0.1 mM Hexamethoxyphosphazine in acetonitrile	0.787
		0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	0.787
		0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	0.787
		0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	0.787
Solubility	:	1.0 M Ammonium formate in deionized, nanopure water	Easily soluble in the following materials: cold water and hot water.
		5mM Purine in Acetonitrile Solution	Soluble in the following materials: cold water and hot water.
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	Soluble in the following materials: cold water and hot water.
		0.1 mM Hexamethoxyphosphazine in acetonitrile	Soluble in the following materials: cold water and hot water.
		0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	Soluble in the following materials: cold water and hot water.
		0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	Soluble in the following materials: cold water and hot water.
		0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	Soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	:	1.0 M Ammonium formate in deionized, nanopure water	Not available.
		5mM Purine in Acetonitrile Solution	Not available.
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	Not available.
		0.1 mM Hexamethoxyphosphazine in acetonitrile	Not available.
		0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	Not available.
		0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	Not available.
		0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	Not available.

Section 9. Physical and chemical properties

Auto-ignition temperature	:	1.0 M Ammonium formate in deionized, nanopure water	Not available.
		5mM Purine in Acetonitrile Solution	524°C (975.2°F)
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	524°C (975.2°F)
		0.1 mM Hexamethoxyphosphazine in acetonitrile	524°C (975.2°F)
		0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	524°C (975.2°F)
		0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	524°C (975.2°F)
		0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	524°C (975.2°F)
Decomposition temperature	:	1.0 M Ammonium formate in deionized, nanopure water	Not available.
		5mM Purine in Acetonitrile Solution	Not available.
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	Not available.
		0.1 mM Hexamethoxyphosphazine in acetonitrile	Not available.
		0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	Not available.
		0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	Not available.
		0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	Not available.
Viscosity	:	1.0 M Ammonium formate in deionized, nanopure water	Not available.
		5mM Purine in Acetonitrile Solution	Not available.
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	Not available.
		0.1 mM Hexamethoxyphosphazine in acetonitrile	Not available.
		0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	Not available.
		0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	Not available.
		0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	Not available.

Section 10. Stability and reactivity

10.1 Reactivity	:	1.0 M Ammonium formate in deionized, nanopure water	No specific test data related to reactivity available for this product or its ingredients.
		5mM Purine in Acetonitrile Solution	No specific test data related to reactivity available for this product or its ingredients.
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	No specific test data related to reactivity available for this product or its ingredients.
		0.1 mM Hexamethoxyphosphazine in acetonitrile	No specific test data related to reactivity available for this product or its ingredients.
		0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	No specific test data related to reactivity available for this product or its ingredients.
		0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	No specific test data related to reactivity available for this product or its ingredients.
		0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	:	1.0 M Ammonium formate in deionized, nanopure water	The product is stable.
		5mM Purine in Acetonitrile Solution	The product is stable.
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	The product is stable.
		0.1 mM Hexamethoxyphosphazine in acetonitrile	The product is stable.
		0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	The product is stable.
		0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	The product is stable.
		0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	The product is stable.
10.3 Possibility of hazardous reactions	:	1.0 M Ammonium formate in deionized, nanopure water	Under normal conditions of storage and use, hazardous reactions will not occur.
		5mM Purine in Acetonitrile Solution	Under normal conditions of storage and use, hazardous reactions will not occur.
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	Under normal conditions of storage and use, hazardous reactions will not occur.
		0.1 mM Hexamethoxyphosphazine in acetonitrile	Under normal conditions of storage and use, hazardous reactions will not occur.
		0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	Under normal conditions of storage and use, hazardous reactions will not occur.
		0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	Under normal conditions of storage and use, hazardous reactions will not occur.
		0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	Under normal conditions of storage and use, hazardous reactions will not occur.

Section 10. Stability and reactivity

10.4 Conditions to avoid	:	1.0 M Ammonium formate in deionized, nanopure water	No specific data.
		5mM Purine in Acetonitrile Solution	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
		0.1 mM Hexamethoxyphosphazine in acetonitrile	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
		0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
		0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
		0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
10.5 Incompatible materials	:	1.0 M Ammonium formate in deionized, nanopure water	May react or be incompatible with oxidizing materials.
		5mM Purine in Acetonitrile Solution	Reactive or incompatible with the following materials: oxidizing materials
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	Reactive or incompatible with the following materials: oxidizing materials
		0.1 mM Hexamethoxyphosphazine in acetonitrile	Reactive or incompatible with the following materials: oxidizing materials
		0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	Reactive or incompatible with the following materials: oxidizing materials
		0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	Reactive or incompatible with the following materials: oxidizing materials
		0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	Reactive or incompatible with the following materials: oxidizing materials

Section 10. Stability and reactivity

10.6 Hazardous decomposition products :	1.0 M Ammonium formate in deionized, nanopure water	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	5mM Purine in Acetonitrile Solution	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	0.1 mM Hexamethoxyphosphazine in acetonitrile	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
5mM Purine in Acetonitrile Solution				
Acetonitrile	LC50 Inhalation Vapor LD50 Oral	Rat Rat	17100 ppm 2460 mg/kg	4 hours -
0.5 mM Tris(2,4, 6-trifluoromethyl)-1,3,5 triazine in acetonitrile				
Acetonitrile	LC50 Inhalation Vapor LD50 Oral	Rat Rat	17100 ppm 2460 mg/kg	4 hours -
0.1 mM Hexamethoxyphosphazine in acetonitrile				
Acetonitrile	LC50 Inhalation Vapor LD50 Oral	Rat Rat	17100 ppm 2460 mg/kg	4 hours -
0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy) phosphazine in acetonitrile				
Acetonitrile	LC50 Inhalation Vapor LD50 Oral	Rat Rat	17100 ppm 2460 mg/kg	4 hours -
0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy) phosphazine in acetonitrile				
Acetonitrile	LC50 Inhalation Vapor LD50 Oral	Rat Rat	17100 ppm 2460 mg/kg	4 hours -
0.5 mM Hexakis(1H,1H,8H-				

Section 11. Toxicological information

tetradecafluorooctyloxy) phosphazine in acetonitrile				
Acetonitrile	LC50 Inhalation Vapor LD50 Oral	Rat Rat	17100 ppm 2460 mg/kg	4 hours -

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
5mM Purine in Acetonitrile Solution					
Acetonitrile	Eyes - Moderate irritant	Rabbit	-	24 hours 100 microliters	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
0.5 mM Tris(2,4, 6-trifluoromethyl)-1,3,5 triazine in acetonitrile					
Acetonitrile	Eyes - Moderate irritant	Rabbit	-	24 hours 100 microliters	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
0.1 mM Hexamethoxyphosphazine in acetonitrile					
Acetonitrile	Eyes - Moderate irritant	Rabbit	-	24 hours 100 microliters	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy) phosphazine in acetonitrile					
Acetonitrile	Eyes - Moderate irritant	Rabbit	-	24 hours 100 microliters	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy) phosphazine in acetonitrile					
Acetonitrile	Eyes - Moderate irritant	Rabbit	-	24 hours 100 microliters	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile					
Acetonitrile	Eyes - Moderate irritant	Rabbit	-	24 hours 100 microliters	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-

Sensitization

Not available.

Mutagenicity

Section 11. Toxicological information

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
5mM Purine in Acetonitrile Solution			
Acetonitrile	Category 2	Not determined	blood system, central nervous system (CNS), kidneys and liver
0.5 mM Tris(2,4,6-trifluoromethyl)-1,3,5 triazine in acetonitrile			
Acetonitrile	Category 2	Not determined	blood system, central nervous system (CNS), kidneys and liver
0.1 mM Hexamethoxyphosphazine in acetonitrile			
Acetonitrile	Category 2	Not determined	blood system, central nervous system (CNS), kidneys and liver
0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy) phosphazine in acetonitrile			
Acetonitrile	Category 2	Not determined	blood system, central nervous system (CNS), kidneys and liver
0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy) phosphazine in acetonitrile			
Acetonitrile	Category 2	Not determined	blood system, central nervous system (CNS), kidneys and liver
0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile			
Acetonitrile	Category 2	Not determined	blood system, central nervous system (CNS), kidneys and liver

Aspiration hazard

Section 11. Toxicological information

Not available.

Information on the likely routes of exposure :

1.0 M Ammonium formate in deionized, nanopure water	Not available.
5mM Purine in Acetonitrile Solution	Routes of entry anticipated: Oral, Dermal, Inhalation.
0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	Routes of entry anticipated: Oral, Dermal, Inhalation.
0.1 mM Hexamethoxyphosphazine in acetonitrile	Routes of entry anticipated: Oral, Dermal, Inhalation.
0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	Routes of entry anticipated: Oral, Dermal, Inhalation.
0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	Routes of entry anticipated: Oral, Dermal, Inhalation.
0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Eye contact :

1.0 M Ammonium formate in deionized, nanopure water	No known significant effects or critical hazards.
5mM Purine in Acetonitrile Solution	Causes serious eye irritation.
0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	Causes serious eye irritation.
0.1 mM Hexamethoxyphosphazine in acetonitrile	Causes serious eye irritation.
0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	Causes serious eye irritation.
0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	Causes serious eye irritation.
0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	Causes serious eye irritation.

Inhalation :

1.0 M Ammonium formate in deionized, nanopure water	No known significant effects or critical hazards.
5mM Purine in Acetonitrile Solution	Harmful if inhaled.
0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	Harmful if inhaled.
0.1 mM Hexamethoxyphosphazine in acetonitrile	Harmful if inhaled.
0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	Harmful if inhaled.
0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	Harmful if inhaled.
0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	Harmful if inhaled.

Section 11. Toxicological information

Skin contact	:	1.0 M Ammonium formate in deionized, nanopure water	No known significant effects or critical hazards.
		5mM Purine in Acetonitrile Solution	Harmful in contact with skin.
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	Harmful in contact with skin.
		0.1 mM Hexamethoxyphosphazine in acetonitrile	Harmful in contact with skin.
		0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	Harmful in contact with skin.
		0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	Harmful in contact with skin.
		0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	Harmful in contact with skin.
Ingestion	:	1.0 M Ammonium formate in deionized, nanopure water	No known significant effects or critical hazards.
		5mM Purine in Acetonitrile Solution	Harmful if swallowed.
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	Harmful if swallowed.
		0.1 mM Hexamethoxyphosphazine in acetonitrile	Harmful if swallowed.
		0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	Harmful if swallowed.
		0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	Harmful if swallowed.
		0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	:	1.0 M Ammonium formate in deionized, nanopure water	No specific data.
		5mM Purine in Acetonitrile Solution	Adverse symptoms may include the following: pain or irritation watering redness
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	Adverse symptoms may include the following: pain or irritation watering redness
		0.1 mM Hexamethoxyphosphazine in acetonitrile	Adverse symptoms may include the following: pain or irritation watering redness
		0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	Adverse symptoms may include the following: pain or irritation watering

Section 11. Toxicological information

			redness
		0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	Adverse symptoms may include the following:
			pain or irritation watering redness
		0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	Adverse symptoms may include the following:
			pain or irritation watering redness
Inhalation	:	1.0 M Ammonium formate in deionized, nanopure water	No specific data.
		5mM Purine in Acetonitrile Solution	No specific data.
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	No specific data.
		0.1 mM Hexamethoxyphosphazine in acetonitrile	No specific data.
		0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	No specific data.
		0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	No specific data.
		0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	No specific data.
Skin contact	:	1.0 M Ammonium formate in deionized, nanopure water	No specific data.
		5mM Purine in Acetonitrile Solution	No specific data.
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	No specific data.
		0.1 mM Hexamethoxyphosphazine in acetonitrile	No specific data.
		0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	No specific data.
		0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	No specific data.
		0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	No specific data.
Ingestion	:	1.0 M Ammonium formate in deionized, nanopure water	No specific data.
		5mM Purine in Acetonitrile Solution	No specific data.
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	No specific data.
		0.1 mM Hexamethoxyphosphazine in acetonitrile	No specific data.
		0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	No specific data.

Section 11. Toxicological information

0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	No specific data.
0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General	: 1.0 M Ammonium formate in deionized, nanopure water	No known significant effects or critical hazards.
	5mM Purine in Acetonitrile Solution	May cause damage to organs through prolonged or repeated exposure.
	0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	May cause damage to organs through prolonged or repeated exposure.
	0.1 mM Hexamethoxyphosphazine in acetonitrile	May cause damage to organs through prolonged or repeated exposure.
	0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	May cause damage to organs through prolonged or repeated exposure.
	0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	May cause damage to organs through prolonged or repeated exposure.
	0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	May cause damage to organs through prolonged or repeated exposure.
Carcinogenicity	: 1.0 M Ammonium formate in deionized, nanopure water	No known significant effects or critical hazards.
	5mM Purine in Acetonitrile Solution	No known significant effects or critical hazards.
	0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	No known significant effects or critical hazards.
	0.1 mM Hexamethoxyphosphazine in acetonitrile	No known significant effects or critical hazards.
	0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	No known significant effects or critical hazards.
	0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	No known significant effects or critical hazards.
	0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	No known significant effects or critical hazards.

Section 11. Toxicological information

Mutagenicity	:	1.0 M Ammonium formate in deionized, nanopure water	No known significant effects or critical hazards.
		5mM Purine in Acetonitrile Solution	No known significant effects or critical hazards.
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	No known significant effects or critical hazards.
		0.1 mM Hexamethoxyphosphazine in acetonitrile	No known significant effects or critical hazards.
		0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	No known significant effects or critical hazards.
		0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	No known significant effects or critical hazards.
		0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	No known significant effects or critical hazards.
Teratogenicity	:	1.0 M Ammonium formate in deionized, nanopure water	No known significant effects or critical hazards.
		5mM Purine in Acetonitrile Solution	No known significant effects or critical hazards.
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	No known significant effects or critical hazards.
		0.1 mM Hexamethoxyphosphazine in acetonitrile	No known significant effects or critical hazards.
		0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	No known significant effects or critical hazards.
		0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	No known significant effects or critical hazards.
		0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	No known significant effects or critical hazards.
Developmental effects	:	1.0 M Ammonium formate in deionized, nanopure water	No known significant effects or critical hazards.
		5mM Purine in Acetonitrile Solution	No known significant effects or critical hazards.
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	No known significant effects or critical hazards.
		0.1 mM Hexamethoxyphosphazine in acetonitrile	No known significant effects or critical hazards.
		0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	No known significant effects or critical hazards.
		0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	No known significant effects or critical hazards.
		0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	No known significant effects or critical hazards.
Fertility effects	:	1.0 M Ammonium formate in deionized, nanopure water	No known significant effects or critical hazards.
		5mM Purine in Acetonitrile Solution	No known significant effects or critical hazards.
		0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	No known significant effects or critical hazards.
		0.1 mM Hexamethoxyphosphazine	No known significant effects or critical hazards.

Section 11. Toxicological information

in acetonitrile	
0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	No known significant effects or critical hazards.
0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	No known significant effects or critical hazards.
0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
5mM Purine in Acetonitrile Solution	
Oral	555.9 mg/kg
Dermal	1222.9 mg/kg
Inhalation (vapors)	12.23 mg/l
0.5 mM Tris(2,4,6-trifluoromethyl)-1,3,5 triazine in acetonitrile	
Oral	500.1 mg/kg
Dermal	1100.2 mg/kg
Inhalation (vapors)	11 mg/l
0.1 mM Hexamethoxyphosphazine in acetonitrile	
Oral	500 mg/kg
Dermal	1100 mg/kg
Inhalation (vapors)	11 mg/l
0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	
Oral	500.1 mg/kg
Dermal	1100.2 mg/kg
Inhalation (vapors)	11 mg/l
0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	
Oral	500.2 mg/kg
Dermal	1100.4 mg/kg
Inhalation (vapors)	11 mg/l
0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy)phosphazine in acetonitrile	
Oral	500.6 mg/kg
Dermal	1101.3 mg/kg
Inhalation (vapors)	11.01 mg/l

Other information :

1.0 M Ammonium formate in deionized, nanopure water	Not available.
5mM Purine in Acetonitrile Solution	Adverse symptoms may include the following: May cause headache, weakness, dizziness, shortness of breath, cyanosis, rapid heart beat, unconsciousness and possible death.
0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	Adverse symptoms may include the following: May cause headache, weakness, dizziness, shortness

Section 11. Toxicological information

	of breath, cyanosis, rapid heart beat, unconsciousness and possible death.
0.1 mM Hexamethoxyphosphazine in acetonitrile	Adverse symptoms may include the following: May cause headache, weakness, dizziness, shortness of breath, cyanosis, rapid heart beat, unconsciousness and possible death.
0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	Adverse symptoms may include the following: May cause headache, weakness, dizziness, shortness of breath, cyanosis, rapid heart beat, unconsciousness and possible death.
0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	Adverse symptoms may include the following: May cause headache, weakness, dizziness, shortness of breath, cyanosis, rapid heart beat, unconsciousness and possible death.
0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	Adverse symptoms may include the following: May cause headache, weakness, dizziness, shortness of breath, cyanosis, rapid heart beat, unconsciousness and possible death.

Section 12. Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
5mM Purine in Acetonitrile Solution			
Acetonitrile	Acute IC50 3685000 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 3600000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 1000000 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Chronic NOEC 160000 µg/l Fresh water	Daphnia - Daphnia magna	21 days
0.5 mM Tris(2,4, 6-trifluoromethyl)-1,3,5 triazine in acetonitrile			
Acetonitrile	Acute IC50 3685000 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 3600000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 1000000 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Chronic NOEC 160000 µg/l Fresh water	Daphnia - Daphnia magna	21 days
0.1 mM Hexamethoxyphosphazine in acetonitrile			
Acetonitrile	Acute IC50 3685000 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 3600000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 1000000 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Chronic NOEC 160000 µg/l Fresh water	Daphnia - Daphnia magna	21 days
0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy) phosphazine in acetonitrile			
Acetonitrile	Acute IC50 3685000 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 3600000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 1000000 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Chronic NOEC 160000 µg/l Fresh water	Daphnia - Daphnia magna	21 days

Section 12. Ecological information

0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy) phosphazine in acetonitrile			
Acetonitrile	Acute IC50 3685000 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 3600000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 1000000 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Chronic NOEC 160000 µg/l Fresh water	Daphnia - Daphnia magna	21 days
0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile			
Acetonitrile	Acute IC50 3685000 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 3600000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 1000000 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Chronic NOEC 160000 µg/l Fresh water	Daphnia - Daphnia magna	21 days

12.2 Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
5mM Purine in Acetonitrile Solution			
Acetonitrile	-	-	Readily
0.5 mM Tris(2,4,6-trifluoromethyl)-1,3,5 triazine in acetonitrile			
Acetonitrile	-	-	Readily
0.1 mM Hexamethoxyphosphazine in acetonitrile			
Acetonitrile	-	-	Readily
0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy) phosphazine in acetonitrile			
Acetonitrile	-	-	Readily
0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy) phosphazine in acetonitrile			
Acetonitrile	-	-	Readily
0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile			
Acetonitrile	-	-	Readily

12.3 Bioaccumulative potential

Section 12. Ecological information

Product/ingredient name	$LogP_{ow}$	BCF	Potential
5mM Purine in Acetonitrile Solution			
Acetonitrile	-0.34	3	low
0.5 mM Tris(2,4, 6-trifluoromethyl)-1,3,5 triazine in acetonitrile			
Acetonitrile	-0.34	3	low
0.1 mM Hexamethoxyphosphazine in acetonitrile			
Acetonitrile	-0.34	3	low
0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy) phosphazine in acetonitrile			
Acetonitrile	-0.34	3	low
0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy) phosphazine in acetonitrile			
Acetonitrile	-0.34	3	low
0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile			
Acetonitrile	-0.34	3	low

12.4 Mobility in soil

Soil/water partition coefficient (K_{OC}) : Not available.

12.5 Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

13.1 Waste treatment methods

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Toxic hazardous waste "U" List

Section 13. Disposal considerations

Ingredient	CAS #	Status	Reference number
5mM Purine in Acetonitrile Solution			
Acetonitrile (I,T)	75-05-8	Listed	U003
0.5 mM Tris(2,4,6-trifluoromethyl)-1,3,5 triazine in acetonitrile			
Acetonitrile (I,T)	75-05-8	Listed	U003
0.1 mM Hexamethoxyphosphazine in acetonitrile			
Acetonitrile (I,T)	75-05-8	Listed	U003
0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile			
Acetonitrile (I,T)	75-05-8	Listed	U003
0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile			
Acetonitrile (I,T)	75-05-8	Listed	U003
0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy)phosphazine in acetonitrile			
Acetonitrile (I,T)	75-05-8	Listed	U003

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
UN number	UN3316	UN3316	UN3316	UN3316	UN3316
UN proper shipping name	Chemical kits	CHEMICAL KIT	EQUIPO QUIMICO	CHEMICAL KIT	Chemical kit
Transport hazard class(es)	9 	9 	9 	9 	9 
Packing group	II	II	II	II	II
Environmental hazards	No.	No.	No.	No.	No.

Additional information

Remarks : Excepted Quantity

Section 14. Transport information

DOT Classification : **Reportable quantity** 5934.7 lbs / 2694.3 kg. The classification of the product is due solely to the presence of one or more US DOT-listed 'Hazardous substances' that are subject to reportable quantity requirements and only applies to shipments of packages greater than, or equal to, the product reportable quantity. Package sizes less than the product reportable quantity are not regulated as hazardous materials.
Limited quantity Yes.
Packaging instruction Exceptions: 161. Non-bulk: 161. Bulk: None.
Quantity limitation Passenger aircraft/rail: 10 kg. Cargo aircraft: 10 kg.
Special provisions 15

TDG Classification : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.43-2.45 (Class 9).
Passenger Carrying Road or Rail Index 10
Special provisions 65, 141

Mexico Classification : **Special provisions** 251, 340

IMDG : **Emergency schedules** F-A, _S-P_
Special provisions 251, 340

IATA : **Quantity limitation** Passenger and Cargo Aircraft: 10 kg. Packaging instructions: 960. Cargo Aircraft Only: 10 kg. Packaging instructions: 960. Limited Quantities - Passenger Aircraft: 1 kg. Packaging instructions: Y960.
Special provisions A44, A163

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL and the IBC Code : Not available.

Section 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

U.S. Federal regulations : **TSCA 8(a) PAIR**: Acetonitrile
TSCA 8(a) CDR Exempt/Partial exemption: Not determined
Clean Water Act (CWA) 307: Acetonitrile

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

Section 15. Regulatory information

SARA 304 RQ : Not applicable.

SARA 311/312

Classification :

1.0 M Ammonium formate in deionized, nanopure water	Not applicable.
5mM Purine in Acetonitrile Solution	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2
0.5 mM Tris(2,4,6-trifluoromethyl) -1,3,5 triazine in acetonitrile	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2
0.1 mM Hexamethoxyphosphazine in acetonitrile	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2
0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2
0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2
0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2

Composition/information on ingredients

Section 15. Regulatory information

Name	%	Classification
1.0 M Ammonium formate in deionized, nanopure water		
Ammonium formate	<10	EYE IRRITATION - Category 2A
5mM Purine in Acetonitrile Solution		
Acetonitrile	≥75 - ≤90	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2
0.5 mM Tris(2,4, 6-trifluoromethyl)-1,3,5 triazine in acetonitrile		
Acetonitrile	≥90	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2
0.1 mM Hexamethoxyphosphazine in acetonitrile		
Acetonitrile	≥90	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2
0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy) phosphazine in acetonitrile		
Acetonitrile	≥90	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2
0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy) phosphazine in acetonitrile		
Acetonitrile	≥90	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2
0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile		
Acetonitrile	≥90	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4

Section 15. Regulatory information

		ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	**1.0 M Ammonium formate in deionized, nanopure water**		
	Ammonium formate	540-69-2	<10
	5mM Purine in Acetonitrile Solution		
	Acetonitrile	75-05-8	≥75 - ≤90
	0.5 mM Tris(2,4,6-trifluoromethyl)-1,3,5 triazine in acetonitrile		
	Acetonitrile	75-05-8	≥90
	0.1 mM Hexamethoxyphosphazine in acetonitrile		
	Acetonitrile	75-05-8	≥90
	0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy) phosphazine in acetonitrile		
	Acetonitrile	75-05-8	≥90
	0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy) phosphazine in acetonitrile		
	Acetonitrile	75-05-8	≥90
	0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy)phosphazine in acetonitrile		
	Acetonitrile	75-05-8	≥90
Supplier notification	**1.0 M Ammonium formate in deionized, nanopure water**		
	Ammonium formate	540-69-2	<10
	5mM Purine in Acetonitrile Solution		
	Acetonitrile	75-05-8	≥75 - ≤90
	0.5 mM Tris(2,4,6-trifluoromethyl)-1,3,5 triazine in acetonitrile		
	Acetonitrile	75-05-8	≥90
	0.1 mM Hexamethoxyphosphazine in acetonitrile		
	Acetonitrile	75-05-8	≥90
	0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy) phosphazine in acetonitrile		
	Acetonitrile	75-05-8	≥90
	0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy) phosphazine in acetonitrile		
	Acetonitrile	75-05-8	≥90
	0.5 mM Hexakis(1H,1H,8H-		

Section 15. Regulatory information

	tetradecafluorooctyloxy)phosphazine in acetonitrile Acetonitrile	 75-05-8	 ≥90

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts : The following components are listed: ACETONITRILE

New York : The following components are listed: Acetonitrile; Ethanenitrile

New Jersey : The following components are listed: ACETONITRILE; CYANOMETHANE

Pennsylvania : The following components are listed: ACETONITRILE

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : Not determined.

Canada : Not determined.

China : Not determined.

Europe : Not determined.

Japan : **Japan inventory (ENCS)**: Not determined.
Japan inventory (ISHL): Not determined.

Malaysia : Not determined.

New Zealand : Not determined.

Philippines : Not determined.

Republic of Korea : Not determined.

Taiwan : Not determined.

Thailand : Not determined.

Turkey : Not determined.

United States : Not determined.

Viet Nam : Not determined.

Section 16. Other information

History

Date of issue : 01/20/2018

Date of previous issue : 07/21/2017.

Version : 6

Indicates information that has changed from previously issued version.

Notice to reader

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