

SAFETY DATA SHEET



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

Section 1. Identification

Product identifier	: ES-TOF Biopolymer Analysis Reference Mass Standards Kit, Part Number G1969-85003	
Part No. (Chemical Kit)	: G1969-85003	
Part No.	: 7.0 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

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

Reagents and Standards for Analytical Chemistry Laboratory Use

7.0 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

Supplier/Manufacturer : Agilent Technologies Australia Pty Ltd
679 Springvale Road
Mulgrave
Victoria 3170, Australia
1800 802 402

Emergency telephone number (with hours of operation) : CHEMTREC®: +(61)-290372994

Section 2. Hazard(s) identification

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	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A

Section 2. Hazard(s) identification

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	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A

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	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A

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	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A

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	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A

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	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A

0.0 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%
0.0 M Ammonium formate in deionized, nanopure water	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 6.3%

[GHS label elements](#)

Section 2. Hazard(s) 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 vapour. H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled. H319 - Causes serious eye irritation.
	0.5 mM Tris(2,4,6-trifluoromethyl)-1,3,5 triazine in acetonitrile	H225 - Highly flammable liquid and vapour. H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled. H319 - Causes serious eye irritation.
	0.1 mM	H225 - Highly flammable liquid and vapour.

Section 2. Hazard(s) identification

Hexamethoxyphosphazine in acetonitrile

H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled.

H319 - Causes serious eye irritation.

H225 - Highly flammable liquid and vapour.

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

H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled.

H319 - Causes serious eye irritation.

H225 - Highly flammable liquid and vapour.

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

H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled.

H319 - Causes serious eye irritation.

H225 - Highly flammable liquid and vapour.

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

H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled.

H319 - Causes serious eye irritation.

Precautionary statements

Prevention

: 0.0 M Ammonium formate in deionized, nanopure water

5mM Purine in Acetonitrile Solution

Not applicable.

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.

P261 - Avoid breathing vapour.

P270 - Do not eat, drink or smoke when using this product.

P264 - Wash hands thoroughly after handling.

P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.

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

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.

P261 - Avoid breathing vapour.

P270 - Do not eat, drink or smoke when using this product.

P264 - Wash hands thoroughly after handling.

P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.

0.1 mM Hexamethoxyphosphazine in acetonitrile

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Section 2. Hazard(s) identification

0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy) phosphazine in acetonitrile	<p>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. P261 - Avoid breathing vapour. P270 - Do not eat, drink or smoke when using this product. P264 - Wash hands thoroughly after handling. P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.</p>
0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy) phosphazine in acetonitrile	<p>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. P261 - Avoid breathing vapour. P270 - Do not eat, drink or smoke when using this product. P264 - Wash hands thoroughly after handling. P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.</p>
0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	<p>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. P261 - Avoid breathing vapour. P270 - Do not eat, drink or smoke when using this product. P264 - Wash hands thoroughly after handling. P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.</p>
	<p>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. P261 - Avoid breathing vapour. P270 - Do not eat, drink or smoke when using this product. P264 - Wash hands thoroughly after handling.</p>

Section 2. Hazard(s) identification

Response	: 1.0 M Ammonium formate in deionized, nanopure water 5mM Purine in Acetonitrile Solution	Not applicable. P304 + P340 + P312 - IF INHALED: Remove victim to fresh air and keep at rest in a position 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 - IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. 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	P304 + P340 + P312 - IF INHALED: Remove victim to fresh air and keep at rest in a position 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 - IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. 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	P304 + P340 + P312 - IF INHALED: Remove victim to fresh air and keep at rest in a position 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 - IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. 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	P304 + P340 + P312 - IF INHALED: Remove victim to fresh air and keep at rest in a position 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.

Section 2. Hazard(s) identification

0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy) phosphazine in acetonitrile	<p>P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.</p> <p>P302 + P352 + P312 - IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell.</p> <p>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P337 + P313 - If eye irritation persists: Get medical attention.</p> <p>P304 + P340 + P312 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.</p> <p>P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth.</p> <p>P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.</p> <p>P302 + P352 + P312 - IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell.</p> <p>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P337 + P313 - If eye irritation persists: Get medical attention.</p>
0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	<p>P304 + P340 + P312 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.</p> <p>P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth.</p> <p>P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.</p> <p>P302 + P352 + P312 - IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell.</p> <p>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P337 + P313 - If eye irritation persists: Get medical attention.</p>
Storage	<p>1.0 M Ammonium formate in deionized, nanopure water 5mM Purine in Acetonitrile Solution</p> <p>0.5 mM Tris(2,4,6-trifluoromethyl)-1,3,5 triazine in acetonitrile</p> <p>0.1 mM Hexamethoxyphosphazine in acetonitrile</p> <p>0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy) phosphazine in acetonitrile</p>
	<p>Not applicable.</p> <p>P403 - Store in a well-ventilated place.</p> <p>P235 - Keep cool.</p> <p>P403 - Store in a well-ventilated place.</p> <p>P235 - Keep cool.</p> <p>P403 - Store in a well-ventilated place.</p> <p>P235 - Keep cool.</p> <p>P403 - Store in a well-ventilated place.</p>

Section 2. Hazard(s) identification

	0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy) phosphazine in acetonitrile	P235 - Keep cool. P403 - Store in a well-ventilated place.
	0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile	P235 - Keep cool. P403 - Store in a well-ventilated place.
Disposal	<p>0.0 M Ammonium formate in deionized, nanopure water 5mM Purine in Acetonitrile Solution</p> <p>0.5 mM Tris(2,4,6-trifluoromethyl)-1,3,5 triazine in acetonitrile</p> <p>0.1 mM Hexamethoxyphosphazine in acetonitrile</p> <p>0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy) phosphazine in acetonitrile</p> <p>0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy) phosphazine in acetonitrile</p> <p>0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile</p>	<p>P235 - Keep cool. Not applicable.</p> <p>P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.</p> <p>P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.</p> <p>P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.</p> <p>P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.</p> <p>P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.</p> <p>P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.</p>
Supplemental label elements		
Additional warning phrases	<p>0.0 M Ammonium formate in deionized, nanopure water 5mM Purine in Acetonitrile Solution</p> <p>0.5 mM Tris(2,4,6-trifluoromethyl)-1,3,5 triazine in acetonitrile</p> <p>0.1 mM Hexamethoxyphosphazine in acetonitrile</p> <p>0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy) phosphazine in acetonitrile</p> <p>0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy) phosphazine in acetonitrile</p> <p>0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile</p>	<p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p>
Other hazards which do not result in classification	<p>0.0 M Ammonium formate in deionized, nanopure water 5mM Purine in Acetonitrile Solution</p> <p>0.5 mM Tris(2,4,6-trifluoromethyl)-1,3,5 triazine in acetonitrile</p> <p>0.1 mM Hexamethoxyphosphazine in acetonitrile</p> <p>0.2 mM Hexakis(1H,1H,4H-</p>	<p>None known.</p> <p>None known.</p> <p>None known.</p> <p>None known.</p> <p>None known.</p>

Section 2. Hazard(s) identification

hexafluorobutyloxy)
 phosphazine in acetonitrile
 0.2 mM Hexakis(1H,1H,6H- None known.
 decafluorohexyloxy)
 phosphazine in acetonitrile
 0.5 mM Hexakis(1H,1H,8H- None known.
 tetradecafluorooctyloxy)
 phosphazine in acetonitrile

Section 3. Composition and ingredient information

Substance/mixture : 7.0 M Ammonium formate Mixture
 in deionized, nanopure water
 5mM Purine in Acetonitrile Mixture
 Solution
 0.5 mM Tris(2,4, Mixture
 6-trifluoromethyl)-1,3,5
 triazine in acetonitrile
 0.1 mM Mixture
 Hexamethoxyphosphazine in
 acetonitrile
 0.2 mM Hexakis(1H,1H,4H- Mixture
 hexafluorobutyloxy)
 phosphazine in acetonitrile
 0.2 mM Hexakis(1H,1H,6H- Mixture
 decafluorohexyloxy)
 phosphazine in acetonitrile
 0.5 mM Hexakis(1H,1H,8H- Mixture
 tetradecafluorooctyloxy)
 phosphazine in acetonitrile

CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
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
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

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

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.
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 if adverse health effects persist or are severe. 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 if

Section 4. First aid measures

0.1 mM
Hexamethoxyphosphazine in
acetonitrile

adverse health effects persist or are severe. 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.

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 if adverse health effects persist or are severe. 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 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 if adverse health effects persist or are severe. 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 if adverse health effects persist or are severe. 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

	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 if adverse health effects persist or are severe. 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.
Skin contact	: 0.0 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 if adverse health effects persist or are severe. 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 if adverse health effects persist or are severe. 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 if adverse health effects persist or are severe. 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 if adverse health effects persist or are severe. 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 if adverse health effects persist or are severe. 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)	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash

Section 4. First aid measures

	phosphazine in acetonitrile	contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention if adverse health effects persist or are severe. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: 17.0 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 Solution	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 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-hexafluorobutoxy)	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a

Section 4. First aid measures

phosphazine in acetonitrile	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,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.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: 1.0 M Ammonium formate in deionized, nanopure water 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	No known significant effects or critical hazards. Causes serious eye irritation. Causes serious eye irritation. Causes serious eye irritation. Causes serious eye irritation.
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Section 4. First aid measures

	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.
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.

Section 4. First aid measures

phosphazine in acetonitrile

Over-exposure signs/symptoms

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
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.

Inhalation

Section 4. First aid measures

Skin contact	:	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	:	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.				

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

Notes to physician	:	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 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.
		0.5 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.

Section 4. First aid measures

	phosphazine 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-decafluorohexyloxy) 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

Section 4. First aid measures

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

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.

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. Firefighting measures

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. |

Section 5. Firefighting 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 vapour. 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 vapour/gas is heavier than air and will spread along the ground. Vapours 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 vapour. 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 vapour/gas is heavier than air and will spread along the ground. Vapours 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 vapour. 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 vapour/gas is heavier than air and will spread along the ground. Vapours 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 vapour. 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 vapour/gas is heavier than air and will spread along the ground. Vapours 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 vapour. 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 vapour/gas is heavier than air and will spread along the ground. Vapours 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 vapour. 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 vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.
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	Decomposition products may include the following materials:

Section 5. Firefighting measures

triazine in acetonitrile	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

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)-1,3,5 triazine 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.
0.1 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-	Promptly isolate the scene by removing all persons

Section 5. Firefighting measures

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

Section 6. Accidental release measures

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 spilt 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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour 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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour 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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour 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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour 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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour 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-tetradecafluorooctyloxy) 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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid

Section 6. Accidental release measures

		breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	<p>1.0 M Ammonium formate in deionized, nanopure water</p> <p>5mM Purine in Acetonitrile Solution</p> <p>0.5 mM Tris(2,4,6-trifluoromethyl)-1,3,5 triazine in acetonitrile</p> <p>0.1 mM Hexamethoxyphosphazine in acetonitrile</p> <p>0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy) phosphazine in acetonitrile</p> <p>0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy) phosphazine in acetonitrile</p> <p>0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile</p>	<p>If specialised 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".</p> <p>If specialised 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".</p> <p>If specialised 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".</p> <p>If specialised 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".</p> <p>If specialised 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".</p> <p>If specialised 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".</p>
Environmental precautions	<p>1.0 M Ammonium formate in deionized, nanopure water</p> <p>5mM Purine in Acetonitrile Solution</p> <p>0.5 mM Tris(2,4,6-trifluoromethyl)-1,3,5 triazine in acetonitrile</p> <p>0.1 mM Hexamethoxyphosphazine in acetonitrile</p> <p>0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy) phosphazine in acetonitrile</p> <p>0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy) phosphazine in acetonitrile</p>	<p>Avoid dispersal of spilt 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).</p> <p>Avoid dispersal of spilt 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).</p> <p>Avoid dispersal of spilt 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).</p> <p>Avoid dispersal of spilt 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).</p> <p>Avoid dispersal of spilt 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).</p> <p>Avoid dispersal of spilt 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).</p>

Section 6. Accidental release measures

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

Avoid dispersal of spilt 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).

Methods and material 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.

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

Precautions for safe handling

Protective measures

: 0.0 M Ammonium formate in deionized, nanopure water	5mM Purine in Acetonitrile Solution	Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. 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 ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. 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 ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. 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,4H-hexafluorobutyloxy) phosphazine in acetonitrile		Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. 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

Section 7. Handling and storage

	<p>0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy) phosphazine in acetonitrile</p>	<p>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. Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. 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.</p>
	<p>0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile</p>	<p>Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. 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.</p>
<p>Advice on general occupational hygiene</p>	<p>: 1.0 M Ammonium formate in deionized, nanopure water</p>	<p>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.</p>
	<p>5mM Purine in Acetonitrile Solution</p>	<p>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.</p>
	<p>0.5 mM Tris(2,4,6-trifluoromethyl)-1,3,5 triazine in acetonitrile</p>	<p>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.</p>
	<p>0.1 mM Hexamethoxyphosphazine in acetonitrile</p>	<p>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</p>

Section 7. Handling and storage

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

additional information on hygiene measures. 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.

Conditions for safe storage, including any incompatibilities

0.0 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 unlabelled 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.

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

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 unlabelled 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

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

Section 7. Handling and storage

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

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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

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 unlabelled 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls and personal protection

[Control parameters](#)

[Occupational exposure limits](#)

Section 8. Exposure controls and personal protection

Ingredient name	Exposure limits
5mM Purine in Acetonitrile Solution Acetonitrile	Safe Work Australia (Australia, 1/2014). Absorbed through skin. STEL: 101 mg/m ³ 15 minutes. STEL: 60 ppm 15 minutes. TWA: 67 mg/m ³ 8 hours. TWA: 40 ppm 8 hours.
0.5 mM Tris(2,4,6-trifluoromethyl)-1,3,5 triazine in acetonitrile Acetonitrile	Safe Work Australia (Australia, 1/2014). Absorbed through skin. STEL: 101 mg/m ³ 15 minutes. STEL: 60 ppm 15 minutes. TWA: 67 mg/m ³ 8 hours. TWA: 40 ppm 8 hours.
0.1 mM Hexamethoxyphosphazine in acetonitrile Acetonitrile	Safe Work Australia (Australia, 1/2014). Absorbed through skin. STEL: 101 mg/m ³ 15 minutes. STEL: 60 ppm 15 minutes. TWA: 67 mg/m ³ 8 hours. TWA: 40 ppm 8 hours.
0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy)phosphazine in acetonitrile Acetonitrile	Safe Work Australia (Australia, 1/2014). Absorbed through skin. STEL: 101 mg/m ³ 15 minutes. STEL: 60 ppm 15 minutes. TWA: 67 mg/m ³ 8 hours. TWA: 40 ppm 8 hours.
0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy)phosphazine in acetonitrile Acetonitrile	Safe Work Australia (Australia, 1/2014). Absorbed through skin. STEL: 101 mg/m ³ 15 minutes. STEL: 60 ppm 15 minutes. TWA: 67 mg/m ³ 8 hours. TWA: 40 ppm 8 hours.
0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy)phosphazine in acetonitrile Acetonitrile	Safe Work Australia (Australia, 1/2014). Absorbed through skin. STEL: 101 mg/m ³ 15 minutes. STEL: 60 ppm 15 minutes. TWA: 67 mg/m ³ 8 hours. TWA: 40 ppm 8 hours.

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, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Section 8. Exposure controls and personal protection

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

Appearance

Physical state :

0.0 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.
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.

Section 9. Physical and chemical properties

Colour	:	17.0 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.		
		Odour	:	17.0 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		
Odour threshold	:	17.0 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-tetradecafluorooctyloxy) phosphazine in acetonitrile	70 ppm		
		pH	:		

Section 9. Physical and chemical properties

		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	:	17.0 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%
Vapour pressure	:	17.0 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]
Vapour density	:	17.0 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

Reactivity	<ul style="list-style-type: none"> : 1.0 M Ammonium formate in deionized, nanopure water 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 	<ul style="list-style-type: none"> No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	<ul style="list-style-type: none"> : 1.0 M Ammonium formate in deionized, nanopure water 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 	<ul style="list-style-type: none"> The product is stable.
Possibility of hazardous reactions	<ul style="list-style-type: none"> : 1.0 M Ammonium formate in deionized, nanopure water 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 	<ul style="list-style-type: none"> Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.

Section 10. Stability and reactivity

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 pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapour 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 pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapour to accumulate in low or confined areas.
	0.1 mM Hexamethoxyphosphazine in acetonitrile	Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapour 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 pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapour 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 pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapour to accumulate in low or confined areas.
Incompatible materials	: 1.0 M Ammonium formate in deionized, nanopure water	May react or be incompatible with oxidising 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

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

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
5mM Purine in Acetonitrile Solution Acetonitrile	LC50 Inhalation Vapour 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 Vapour LD50 Oral	Rat Rat	17100 ppm 2460 mg/kg	4 hours -
0.1 mM Hexamethoxyphosphazine in acetonitrile Acetonitrile	LC50 Inhalation Vapour 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 Vapour 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 Vapour LD50 Oral	Rat Rat	17100 ppm 2460 mg/kg	4 hours -
0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile Acetonitrile	LC50 Inhalation Vapour LD50 Oral	Rat Rat	17100 ppm 2460 mg/kg	4 hours -

Section 11. Toxicological information

Irritation/Corrosion

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

Sensitisation

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Section 11. Toxicological information

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on 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-	Harmful if inhaled.

Section 11. Toxicological information

	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	Harmful if inhaled. Harmful if inhaled.
Skin contact	: 17.0 M Ammonium formate in deionized, nanopure water 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	No known significant effects or critical hazards. Harmful in contact with skin. Harmful in contact with skin.
Ingestion	: 17.0 M Ammonium formate in deionized, nanopure water 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	No known significant effects or critical hazards. Harmful if swallowed. Harmful if swallowed. Harmful if swallowed. Harmful if swallowed. Harmful if swallowed. Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: 17.0 M Ammonium formate in deionized, nanopure water 5mM Purine in Acetonitrile Solution	No specific data. 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	Adverse symptoms may include the following:

Section 11. Toxicological information

Hexamethoxyphosphazine in acetonitrile	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.

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.

Section 11. Toxicological information

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.

Delayed and immediate effects as well as 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

Not available.

General	: 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.
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	No known significant effects or critical hazards.

Section 11. Toxicological information

	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.
Mutagenicity	: 0.0 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	: 0.0 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	: 0.0 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.

Section 11. Toxicological information

	phosphazine in acetonitrile 0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy)	No known significant effects or critical hazards.
Fertility effects	: 17.0 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.

Numerical measures of toxicity

Acute toxicity estimates

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

Section 11. Toxicological information

Other information	: 7.0 M Ammonium formate in deionized, nanopure water 5mM Purine in Acetonitrile Solution	Not available. 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 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

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
0.5 mM Tris(2,4,6-trifluoromethyl)-1,3,5 triazine in acetonitrile Acetonitrile	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
	Acute IC50 3685000 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
0.1 mM Hexamethoxyphosphazine in acetonitrile Acetonitrile	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-	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
0.2 mM Hexakis(1H,1H,8H-	Chronic NOEC 160000 µg/l Fresh water	Daphnia - Daphnia magna	21 days

Section 12. Ecological information

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

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

Section 12. Ecological information

Bioaccumulative potential

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

Mobility in soil

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

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

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimised 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. Vapour 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	ADG	IMDG	IATA
UN number	UN3316	UN3316	UN3316
UN proper shipping name	CHEMICAL KIT	CHEMICAL KIT	Chemical kit
Transport hazard class(es)	9 	9 	9 
Packing group	II	II	II
Environmental hazards	No.	No.	No.

Additional information

Remarks : Excepted Quantity

ADG : **Hazchem code** 2Z
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

Standard Uniform Schedule of Medicine and Poisons

Not regulated.

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

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.

Section 15. Regulatory information

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. Any other relevant information

History

Date of issue/Date of revision	: 20/01/2018
Date of previous issue	: 21/07/2017.
Version	: 6

Key to abbreviations

: ADG = Australian Dangerous Goods
: ATE = Acute Toxicity Estimate
: BCF = Bioconcentration Factor
: GHS = Globally Harmonized System of Classification and Labelling of Chemicals
: IATA = International Air Transport Association
: IBC = Intermediate Bulk Container
: IMDG = International Maritime Dangerous Goods
: LogPow = logarithm of the octanol/water partition coefficient
: MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
: NOHSC = National Occupational Health and Safety Commission
: SUSMP = Standard Uniform Schedule of Medicine and Poisons
: UN = United Nations

Procedure used to derive the classification

Classification	Justification
5mM Purine in Acetonitrile Solution Flam. Liq. 2, H225 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Eye Irrit. 2A, H319	On basis of test data Calculation method Calculation method Calculation method Calculation method
0.5 mM Tris(2,4,6-trifluoromethyl)-1,3,5 triazine in acetonitrile Flam. Liq. 2, H225 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Eye Irrit. 2A, H319	On basis of test data Calculation method Calculation method Calculation method Calculation method
0.1 mM Hexamethoxyphosphazine in acetonitrile Flam. Liq. 2, H225	On basis of test data

Section 16. Any other relevant information

Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Eye Irrit. 2A, H319	Calculation method Calculation method Calculation method Calculation method
0.2 mM Hexakis(1H,1H,4H-hexafluorobutyloxy) phosphazine in acetonitrile Flam. Liq. 2, H225 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Eye Irrit. 2A, H319	On basis of test data Calculation method Calculation method Calculation method Calculation method
0.2 mM Hexakis(1H,1H,6H-decafluorohexyloxy) phosphazine in acetonitrile Flam. Liq. 2, H225 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Eye Irrit. 2A, H319	On basis of test data Calculation method Calculation method Calculation method Calculation method
0.5 mM Hexakis(1H,1H,8H-tetradecafluorooctyloxy) phosphazine in acetonitrile Flam. Liq. 2, H225 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Eye Irrit. 2A, H319	On basis of test data Calculation method Calculation method Calculation method Calculation method

References : Not available.

✔ Indicates information that has changed from previously issued version.

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