

SAFETY DATA SHEET

United States

Product type

Supplier

Section 1. Identification Product name



Cytiva Amersham Place Little Chalfont Buckinghamshire HP7 9NA United Kingdom +44 0800 515 313

Cytiva USA 100 Results Way Marlborough, MÁ 01752 1-800-526-3593

In case of emergency	INFOTRAC - 24 Hour number: 1-800-535-5053	
	Outside of the United States, call 24 Hour number: 001-352-323-3500 (Call Collect	t)

Section 2. Hazards identification

OSHA/HCS status	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	RESPIRATORY SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3
	Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 12% Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 38.8% Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 50.9%
GHS label elements	
Hazard pictograms	
Signal word	Danger
Hazard statements	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.
Precautionary statements	

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Prevention	Wear protective gloves. Wear respiratory protection. Avoid release to the environment. Avoid breathing dust. Contaminated work clothing must not be allowed out of the workplace.
Response Storage	IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing If experiencing respiratory symptoms: Call a POISON CENTER or physician. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. Not applicable.
Disposal	Dispose of contents and container in accordance with all local, regional, national and international regulations.
lazards not otherwise lassified	None known.

Substance/mixture	Mixture		
Other means of identification	Not available.		
CAS number/other identifiers			
CAS number	Not applicable.		
Ingredient name		%	CAS number
Proprietary		4.43	-
sodium azide		0.44	26628-22-8
Any concentration shown as a ran	ge is to protect confidentiality or is due	to batch variation	

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

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified 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	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
	if irritation occurs.
Inhalation	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 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. In the event of any complaints or symptoms, avoid further exposure.
Skin contact	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. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	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 adverse health effects persist or are severe. 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/effect	s, acute and delayed
Potential acute health effects	
Eye contact	No known significant effects or critical hazards.
Inhalation	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin contact	May cause an allergic skin reaction.
Ingestion	No known significant effects or critical hazards.
Over-exposure signs/symptom	<u>s</u>
Eye contact	No specific data.
Inhalation	Adverse symptoms may include the following:
	$(1, 1, \dots, 2^n)$ and $(1, \dots, 4^n)$ and (2^n) and (2^n)

Adverse symptoms may include the following: wheezing and breathing difficulties

No specific data.

Adverse symptoms may include the following:

Skin contact

Ingestion

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asthma

irritation redness

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Indication of immediate medica	al attention and special treatment needed, if necessary	
Notes to physician	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	No specific treatment.	
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.	
See toxicological information (Section 11)		

Section 5. Fire-fighting measures

- 5 5	
Extinguishing media	
Suitable extinguishing media	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides phosphorus oxides halogenated compounds metal oxide/oxides
Special protective actions for fire-fighters	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.
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
Methods and materials for contain	inment and cleaning up
Small spill	Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling	
Protective measures	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	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 includin

carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters Occupational exposure limits Ingredient name **Exposure limits** Proprietary None sodium azide ACGIH TLV (United States, 3/2017). C: 0.29 mg/m³, (as Sodium azide) C: 0.11 ppm, (as Hydrazoic acid vapor) OSHA PEL 1989 (United States, 3/1989). Absorbed through skin. CEIL: 0.1 ppm, (as HN3) CEIL: 0.3 mg/m3, (as NaN3) NIOSH REL (United States, 10/2016). Absorbed through skin. CEIL: 0.1 ppm, (as HN3) CEIL: 0.3 mg/m³, (NAN3) Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use Appropriate engineering controls process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. **Environmental exposure** 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 controls 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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. Safety eyewear complying with an approved standard should be used when a risk assessment Eve/face protection 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: safety glasses with side-shields. 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. Appropriate footwear and any additional skin protection measures should be selected based on the Other skin protection 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

<u>Appearance</u>	
Physical state	Solid.
Color	Blue.
Odor	Odorless.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Boiling point, initial boiling point, and boiling range	Not available.
Flash point	Not applicable.

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Combination Pack (Cy3, Cy5, Hy	ybond ^{IM} ECL ^{IM}) ^r		
Burning time	Not available.		
Burning rate	Not available.		
Evaporation rate	Not available.		
Flammability	Not available.		
Lower and upper explosive (flammable) limits	Not available.		
Vapor pressure	Not available.		
Relative vapor density	Not available.		
Relative density	Not available.		
Solubility(ies)			
	Media	Result	
	cold water hot water	Easily soluble Easily soluble	
Solubility in water	Not available.		
Partition coefficient: n-octanol water	I/ Not available.		
Auto-ignition temperature	Not available.		
Decomposition temperature	Not available.		
SADT	Not available.		
Viscosity	Not available.		
Flow time (ISO 2431)	Not available.		
Particle characteristics			
Median particle size	Not available.		

Section 10. Stability and reactivity

Reactivity	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	The product is stable.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	No specific data.
Incompatible materials	No specific data.
Hazardous decomposition products	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
sodium azide	LD50 Dermal	Rabbit	20 mg/kg	-
	LD50 Dermal	Rat	50 mg/kg	-
	LD50 Oral	Rat	27 mg/kg	-
Irritation/Corrosion				

Not available.

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure) Not available.

<u>Specific target organ toxicity (repeated exposure)</u> Not available.

Article Number :



Aspiration hazard

Not available.

Information on the likely routes Routes of entry anticipated: Oral, Dermal, Inhalation.

Information on the likely routes of exposure						
Potential acute health effects						
Eye contact Inhalation Skin contact Ingestion	No known significant effec May cause allergy or asthr May cause an allergic skin No known significant effec	na symptoms o reaction.	r breathing	g difficulties if inhal	led.	
Symptoms related to the physica	al, chemical and toxicologi	cal characteris	stics			
Eye contact Inhalation	No specific data. Adverse symptoms may in wheezing and breathing di asthma		ving:			
Skin contact	Adverse symptoms may in irritation redness	clude the follow	/ing:			
Ingestion	No specific data.	m chart and la				
Delayed and immediate effects a Short term exposure	ind also chi onic enects fro	III SHULL AND IC		evhoanig		
Potential immediate effects	Net evellette					
Potential delayed effects	Not available. Not available.					
Long term exposure						
Potential immediate effects	Not available.					
Potential delayed effects	Not available.					
Potential delayed effects <u>Potential chronic health effects</u> Not available.	Not available.					
Potential chronic health effects	Not available. Once sensitized, a severe No known significant effec No known significant effec No known significant effec	ts or critical haz ts or critical haz	zards. zards.	cur when subseque	ntly exposed to	very low levels.
Potential chronic health effects Not available. General Carcinogenicity Mutagenicity	Once sensitized, a severe No known significant effec No known significant effec	ts or critical haz ts or critical haz	zards. zards.	cur when subseque	ntly exposed to	very low levels.
Potential chronic health effects Not available. General Carcinogenicity Mutagenicity Reproductive toxicity	Once sensitized, a severe No known significant effec No known significant effec	ts or critical haz ts or critical haz	zards. zards.	cur when subseque	ntly exposed to	very low levels.
Potential chronic health effects Not available. General Carcinogenicity Mutagenicity Reproductive toxicity Numerical measures of toxicity	Once sensitized, a severe No known significant effec No known significant effec	ts or critical haz ts or critical haz	zards. zards.	Inhalation	ntly exposed to Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/
Potential chronic health effects Not available. General Carcinogenicity Mutagenicity Reproductive toxicity Numerical measures of toxicity Acute toxicity estimates	Once sensitized, a severe No known significant effec No known significant effec No known significant effec 5, 150 ug; part of ECL Plex	ts or critical haz ts or critical haz ts or critical haz Oral (mg/kg) 55546.3	zards. zards. zards. Dermal	Inhalation (gases)	Inhalation (vapors)	Inhalation (dusts and
Potential chronic health effects Not available. General Carcinogenicity Mutagenicity Reproductive toxicity Numerical measures of toxicity Acute toxicity estimates Product/ingredient name	Once sensitized, a severe No known significant effec No known significant effec No known significant effec 5, 150 ug; part of ECL Plex	ts or critical haz ts or critical haz ts or critical haz Oral (mg/kg) 55546.3	zards. zards. zards. Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
Potential chronic health effects Not available. General Carcinogenicity Mutagenicity Reproductive toxicity Numerical measures of toxicity Acute toxicity estimates Product/ingredient name ECL Plex goat-anti-rabbit lgG-Cy Western Blotting Combination Pa Proprietary	Once sensitized, a severe No known significant effec No known significant effec No known significant effec 5, 150 ug: part of ECL Plex ack (Cy3, Cy5, Hybond ECL)	ts or critical haz ts or critical haz ts or critical haz Oral (mg/kg) 5546.3 500	zards. zards. zards. Dermal (mg/kg) 9238.8 1100	Inhalation (gases) (ppm) N/A N/A	Inhalation (vapors) (mg/l) N/A N/A	Inhalation (dusts and mists) (mg/ I) 16.6 1.5
Potential chronic health effects Not available. General Carcinogenicity Mutagenicity Reproductive toxicity Numerical measures of toxicity Acute toxicity estimates Product/ingredient name ECL Plex goat-anti-rabbit IgG-Cy Western Blotting Combination Party Proprietary sodium azide Section 12. Ecological in Toxicity	Once sensitized, a severe No known significant effec No known significant effec No known significant effec 5, 150 ug; part of ECL Plex ack (Cy3, Cy5, Hybond ECL)	ts or critical haz ts or critical haz ts or critical haz Oral (mg/kg) 5546.3 500	zards. zards. zards. Dermal (mg/kg) 9238.8 1100 20	Inhalation (gases) (ppm) N/A N/A N/A	Inhalation (vapors) (mg/l) N/A N/A	Inhalation (dusts and mists) (mg/ I) 16.6 1.5 N/A
Potential chronic health effects Not available. General Carcinogenicity Mutagenicity Reproductive toxicity Numerical measures of toxicity Acute toxicity estimates Product/ingredient name ECL Plex goat-anti-rabbit IgG-Cy Western Blotting Combination Party sodium azide Section 12. Ecological in	Once sensitized, a severe No known significant effec No known significant effec No known significant effec 5, 150 ug: part of ECL Plex ack (Cy3, Cy5, Hybond ECL)	ts or critical haz ts or critical haz ts or critical haz Oral (mg/kg) 5546.3 500 27	zards. zards. zards. Dermal (mg/kg) 9238.8 1100 20 Spe	Inhalation (gases) (ppm) N/A N/A	Inhalation (vapors) (mg/l) N/A N/A N/A	Inhalation (dusts and mists) (mg/ I) 16.6 1.5
Potential chronic health effects Not available. General Carcinogenicity Mutagenicity Reproductive toxicity Numerical measures of toxicity Acute toxicity estimates Product/ingredient name ECL Plex goat-anti-rabbit IgG-Cy Western Blotting Combination Parse Proprietary sodium azide Section 12. Ecological in Toxicity Product/ingredient name	Once sensitized, a severe No known significant effec No known significant effec No known significant effec 5, 150 ug; part of ECL Plex ack (Cy3, Cy5, Hybond ECL) formation Result	ts or critical haz ts or critical haz ts or critical haz Oral (mg/kg) 5546.3 500 27 esh water	zards. zards. zards. Dermal (mg/kg) 9238.8 1100 20 Spe Alga sub Cru	Inhalation (gases) (ppm) N/A N/A N/A N/A ecies ae - Pseudokirchne capitata ustaceans - Simoce	Inhalation (vapors) (mg/l) N/A N/A N/A	Inhalation (dusts and mists) (mg/ I) 16.6 1.5 N/A Exposure
Potential chronic health effects Not available. General Carcinogenicity Mutagenicity Reproductive toxicity Numerical measures of toxicity Acute toxicity estimates Product/ingredient name ECL Plex goat-anti-rabbit IgG-Cy Western Blotting Combination Parse Proprietary sodium azide Section 12. Ecological in Toxicity Product/ingredient name	Once sensitized, a severe No known significant effec No known significant effec No known significant effec 5, 150 ug; part of ECL Plex ack (Cy3, Cy5, Hybond ECL) formation Result Acute EC50 0.348 mg/l Fr	ts or critical haz ts or critical haz ts or critical haz Oral (mg/kg) 5546.3 500 27 esh water h water h water sh water	zards. zards. zards. Dermal (mg/kg) 9238.8 1100 20 Spe Alg: sub Cru serr Dap Fisł	Inhalation (gases) (ppm) N/A N/A N/A N/A ecies ae - Pseudokirchne	Inhalation (vapors) (mg/l) N/A N/A N/A eriella ephalus lex - Larvae chirus	Inhalation (dusts and mists) (mg/ I) 16.6 1.5 N/A Exposure 96 hours

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (K Not available.

oc) Other adverse effects

No known significant effects or critical hazards.



Section 13. Disposal considerations

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

Section 14. Transport information

Product is not regulated as dangerous goods for transport.

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Section 15. Regulatory i	nformation						
U.S. Federal regulations	TSCA 8(a) CDR Exe	empt/Part	ial exempt	i on : Not d	etermined		
Clean Air Act Section 112(b) Ha (HAPs)	zardous Air Pollutant	S	Not listed	t			
Clean Air Act Section 602 Class	I Substances		Not listed	b			
Clean Air Act Section 602 Class	II Substances		Not listed	b			
DEA List I Chemicals (Precurso	r Chemicals)		Not listed	t			
DEA List II Chemicals (Essentia	l Chemicals)		Not listed	b			
SARA 302/304							
Composition/information on ir	ngredients						
				SARA 3	02 TPQ	SARA 304	4 RQ
Name	c	%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
sodium azide	0	.44	Yes.	500	-	1000	-
SARA 304 RQ	227272.7 lbs / 10318	31.8 kg					
SARA 311/312		-					
Classification	RESPIRATORY SEN SKIN SENSITIZATIO	RESPIRATORY SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1					
Composition/information on ir	ngredients						
Name	%	Cla	ssification	I			
Proprietary	Proprietary	ACI ACI RES	UTE TOXIC	CITY (derm CITY (inhala Y SENSIT	- Category 4 al) - Category 4 ation) - Category 4 IZATION - Categoı Category 1	ry 1	
State regulations							
Massachusetts	None of the compone	ents are li	isted.				
New York	None of the compone						
New Jersey	None of the compone	None of the components are listed.					
Pennsylvania	None of the compone	ents are li	isted.				
International regulations							
Chemical Weapon Convention	List Schedules I, II &	III Chemi	<u>cals</u>				
Not listed.							
Montreal Protocol							
Not listed.							
Stockholm Convention on Per Not listed.	sistent Organic Pollut	<u>ants</u>					
Rotterdam Convention on Price	or Informed Consent (F	PIC)					
Not listed.							
UNECE Aarhus Protocol on PO	<u>DPs and Heavy Metals</u>						
Not listed.							
Inventory list							

United States	Not determined.				
Canada inventory	Not determined.				
Section 16. Other inform	ation				
National Fire Protection Associa	<u>tion (U.S.A.)</u>				
	Flamm	ability			
	Health 2 0 Inst	ability/Reactivity			
Special hazards					
Procedure used to derive the cla	ssification				
Classi	fication	Justification			
RESPIRATORY SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3		Calculation method Calculation method Calculation method			
History					
Date of printing	5/18/2023				
Date of issue/Date of revision	5/18/2023				
Date of previous issue	5/18/2023				
Version	9.02				
	sds_author@cytiva.com				
Key to abbreviations	ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = 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) N/A = Not available UN = United Nations				
References	Not available.				
Indicates information	ation that has changed from pre-	viously issued version.			

Indicates information that has changed from previously issued version.

Notice to reader

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