

SAFETY DATA SHEET

United States

Section 1. Identification Product name

Antiserum; part of 'cAMP Direct Biotrak™ EIA (non-acetylation protocol), 96 wells'

Catalogue Number

Other means of identificationNotProduct typeSol

Not available. Solid.

RPN2251

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

Identified uses

Analytical chemistry. Laboratory chemicals

Scientific research and development

Industrial applications: Analytical chemistry. Laboratory use. Scientific research and development.

Supplier

Cytiva Amersham Place Little Chalfont Buckinghamshire HP7 9NA United Kingdom +44 0800 515 313 Cytiva USA 100 Results Way Marlborough, MA 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)

Section 2. Hazards identification

OSHA/HCS status Classification of the substance or mixture	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). EYE IRRITATION - Category 2A AQUATIC HAZARD (LONG-TERM) - Category 3
	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 70.3% Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30% Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 40.3%
GHS label elements	
Hazard pictograms	
Signal word	Warning
Signal word Hazard statements	Warning Causes serious eye irritation. Harmful to aquatic life with long lasting effects.
•	Causes serious eye irritation.
Hazard statements	Causes serious eye irritation.
Hazard statements Precautionary statements	Causes serious eye irritation. Harmful to aquatic life with long lasting effects. Wear eye or face protection. Avoid release to the environment. Wash hands thoroughly after

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Disposal	Dispose of contents and container in accordance with all local, regional, national and international
Hazards not otherwise	regulations.
classified	None known.

Section 3. Composition/information on ingredients			
Substance/mixture Other means of identification	Mixture Not available.		
CAS number/other identifiers CAS number	Not applicable.		
Ingredient name calcium chloride		<mark>%</mark> 29.97	CAS number 10043-52-4

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

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

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

Section 4. First aid measures

Description of necessary first aid measures

Inhalation Remove victim to fresh air and keep at rest in a position confortable for breathing, if not breathing, if preathing is irregular or if respiratory arrest occurs, providing aid to give mouth-lo-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, beit or waistband. Skin contact Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. 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 lees is ck 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/effects. acute and delayed Potential acute health effects Potential acute health effects No known significant effects or critical hazards. Inhalation No known significant effects or critical hazards. Ingestion No specific data. Skin contact No specific data.	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.
Ingestionmedical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.IngestionWash 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 feel 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/effects. acute and delayedCauses serious eye irritation. InhalationPotential acute health effects skin contactNo known significant effects or critical hazards. Skin contactNo known significant effects or critical hazards.No known significant effects or critical hazards. Dver-exposure signs/symptoms pain or irritation watering rednessAdverse symptoms may include the following: pain or irritation watering rednessInhalationNo specific data.Indication of immediate medical treatment needed. If necessaryNotes to physicianTreat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.specific treatmentsNo specific treatment.Protection of first-aidersNo action shall be taken involving any personal risk or without s	Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 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.
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See toxicological information (Section 11)	Protection of first-aiders	
	See toxicological information (S	ection 11)



Section 5. Fire-fighting measures

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 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 contai	nment 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). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. 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	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled 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 calcium chloride	-
Appropriate engineering controls	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
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.
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

<u>Appearance</u>	
Physical state	Solid.
Color	Blue.
Odor	Odorless.
Odor threshold	Not available.
рН	Not available.
Melting point	Not available.
Boiling point	Not available.
Flash point	[Product does not sustain combustion.]
Burning time	Not available.
Burning rate	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Lower and upper explosive	Not available.
(flammable) limits	
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility	Easily soluble in the following materials: cold water and hot water.
Solubility in water	Not available.
Partition coefficient: n-octanol/ water	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
SADT	Not available.
Viscosity	Not available.
Flow time (ISO 2431)	Not available.



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Section 10. Stability and reactivity

Reactivity Chemical stability	No specific test data related to reactivity available for this product or its ingredients. 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
calcium chloride	LD50 Oral	Rat	1 g/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.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

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

Potential acute health effects

Eye contact Inhalation Skin contact Ingestion	Causes serious eye irritation. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.	
Symptoms related to the physical, chemical and toxicological characteristics		
Eye contact	Adverse symptoms may include the following: pain or irritation watering redness	
Inhalation	No specific data.	
Skin contact	No specific data.	
Ingestion	No specific data.	
Delayed and immediate effects and also chronic effects from short and long term exposure		

Short term exposure

Potential immediate effects	Not available.
Potential delayed effects	Not available.
Long term exposure	

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Potential immediate effects	Not available.
Potential delayed effects	Not available.
Potential chronic health effects	
Not available.	
General	No known significant effects or critical hazards.
Carcinogenicity	No known significant effects or critical hazards.
Mutagenicity	No known significant effects or critical hazards.
Teratogenicity	No known significant effects or critical hazards.
Developmental effects	No known significant effects or critical hazards.
Fertility effects	No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
Antiserum, lyophilized - Sodium acetate:Calcium chloride: BSA:Brilliant blue (40:30:30:<0.01) - GROUP	2420	N/A	N/A	N/A	N/A
calcium chloride	1000	N/A	N/A	N/A	N/A

Section 12. Ecological information

Tandala	
Toxicity	

Product/ingredient name	Result	Species	Exposure
calcium chloride	Acute EC50 3130000 µg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute EC50 52000 µg/l Fresh water	Daphnia - Daphnia magna Crustaceans - Americamvsis bahia	48 hours 48 hours
	Acute LC50 270 mg/l Marine water Acute LC50 2110 mg/l Fresh water	Fish - Pimephales promelas	96 hours
Persistence and degradability			
Not available.			
Bioaccumulative potential			
Not available.			
<u>Mobility in soil</u>			
Soil/water partition coefficient (K oc)	Not available.		
Other adverse effects	No known significant effects or critical hazard	s.	

Section 13. Disposal considerations

Section 14. Transport information

Product is not regulated as dangerous goods for transport.

Section 15. Regulatory information

U.S. Federal regulations

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Clean Air Act Section 112(b) Hazardous Air Pollutants Not (HAPs)	listed
Clean Air Act Section 602 Class I Substances Not	t listed
Clean Air Act Section 602 Class II Substances Not	listed
DEA List I Chemicals (Precursor Chemicals) Not	listed
DEA List II Chemicals (Essential Chemicals) Not	listed

SARA 302/304

Composition/information on ingredients



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No products were found.				
SARA 304 RQ	Not applicable.			
SARA 311/312				
Classification	EYE IRRITATION - Category 2A			
Composition/information on	ingredients			
Name	%	Classification		
calcium chloride	≥25 - ≤36	ACUTE TOXICITY (oral) - Category 4 EYE IRRITATION - Category 2A		
State regulations				
Massachusetts	None of the compon	ents are listed.		
New York	None of the compon	ents are listed.		
New Jersey	None of the compon	None of the components are listed.		
Pennsylvania	None of the components are listed.			
<u>California Prop. 65</u>				
This product does not req	uire a Safe Harbor warni	ng under California Prop. 65.		
International regulations				
Chemical Weapon Conventio	on List Schedules LIL&	III Chemicals		
Not listed.				
NUL IISIEU.				
Montreal Protocol				
Not listed.				
Stockholm Convention on Persistent Organic Pollutants				
Not listed.				
Rotterdam Convention on Prior Informed Consent (PIC)				
	ior informed consent (
Not listed.				
UNECE Aarhus Protocol on F	POPs and Heavy Metals	1		
Not listed.				
Inventory list				
United States	All components are	isted or exempted.		
Europe	All components are	listed or exempted.		
Canada inventory	All components are	listed or exempted.		
Castien 10. Other infor	un ati a u			

Section 16. Other information

National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

Classification		
EYE IRRITATION - Category 2A AQUATIC HAZARD (LONG-TERM) - Category 3		
<u>History</u>		
Date of printing	4/27/2021	
Date of issue/Date of revision	4/27/2021	
Date of previous issue	11/22/2019	
Version	11	
	sds_author@cytiva.com	

Calculation method Calculation method Justification

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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 = 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)
	N/A = Not available
	UN = United Nations
References	Not available.
Indicates in	formation that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Article Number :

