

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 |

Article Number :

25900166-6



Page: 1/8 Validation date 27 April 2021 Antiserum; part of 'cAMP Direct Biotrak™ EIA (non-acetylation protocol), 96 wells'

| 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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| dangerous to the person providing aid to give mouth-to-mouth resuscitation. | • | • |
| 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



| , and of ann, part of of ann Bhoot | | | | |
|---|------------------------------------|--|--|--|
| 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

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