

SAFETY DATA SHEET

United States

Section 1. Identification Product name

Peroxidase-labelled anti-BrdU; part of 'Cell Proliferation Biotrak[™] ELISA, 10 x 96 wells'

RPN2

Catalogue Number

RPN250

Other means of identification Solid. Product type

Not available.

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

Identified uses

Use in laboratories

In case of emergency

Industrial applications: Analytical chemistry. Research.

Supplier

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

ChemTree LIS (available 24/7) 1-800-424-9300

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

In case of emergency	Chem I rec US (available 24/7) 1-800-424-9300	
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	AQUATIC HAZARD (LONG-TERM) - Category 2	
	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 3.5% Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 3.5%	
GHS label elements		
Hazard pictograms		
Signal word	No signal word.	
Hazard statements	Toxic to aquatic life with long lasting effects.	
Precautionary statements		
Prevention	Avoid release to the environment.	
Response	Collect spillage.	
Storage	Not applicable.	
Disposal	Dispose of contents and container in accordance with all local, regional, national and international regulations.	
Hazards not otherwise classified	None known.	

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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 tetrapotassium hexacyanoferrate		% 3.5	CAS number 13943-58-3

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

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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 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. 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	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 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	ts, acute and delayed		
Potential acute health effects			
Eye contact	No known significant effects or critical hazards.		
Inhalation	No known significant effects or critical hazards.		
Skin contact	No known significant effects or critical hazards.		
Ingestion	No known significant effects or critical hazards.		
Over-exposure signs/symptom	<u>s</u>		
Eye contact	No specific data.		
Inhalation	No specific data.		
Skin contact	No specific data.		
Ingestion	No specific data.		
Indication of immediate medical 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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.		
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 toxic 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 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. Collect spillage.		
Methods and materials for containment and cleaning up			
Small spill	Move containers from spill area. Vacuum or sweep up material and place 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. Vacuum or sweep up material and place in a designated, 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 between the following temperatures: 2 to 8°C (35.6 to 46.4°F). 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	
Ingredient name	Exposure limits
tetrapotassium hexacyanoferrate	-
Appropriate engineering controls	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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Environmental exposure	Emissions from ventilation or work process equipment should be checked to ensure they comply
controls	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: 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.
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	Solid.
Color	White.
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)	Non-flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat, shocks and mechanical impacts, oxidizing materials, reducing materials, combustible materials, organic materials, metals, acids, alkalis and moisture.
Lower and upper explosive (flammable) limits	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility	Not available.
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.
Aerosol product	



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

<u>Acute toxicity</u>	Decult	0	Dees	F
Product/ingredient name	Result	Species	Dose	Exposure
tetrapotassium hexacyanoferrate	ED50 Oral	Rat	6400 mg/kg	-
Irritation/Corrosion				
Not available.				
<u>Sensitization</u>				
Not available.				
Mutanasiaita				
Mutagenicity				
Not available.				
Carcinogenicity				
Not available.				
Reproductive toxicity				
Not available.				
<u>Teratogenicity</u>				
Not available.				
Specific target organ toxicity (si	<u>ngle exposure)</u>			
Not available.				
Specific target organ toxicity (re	neated exposure)			
Not available.				
Aspiration hazard				
Not available.				
Information on the likely routes	Not available.			
of exposure				
Potential acute health effects				
Eye contact	No known significant effects or critical h			
Inhalation Skin contact	No known significant effects or critical h			
	No known significant effects or critical h			
Ingestion	No known significant effects or critical h			
Symptoms related to the physical	, chemical and toxicological characte	ristics		
Eye contact	No specific data.			
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				
Potential immediate effects	Not available.			
Potential delayed effects	Not available.			
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Potential chronic health effects				



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	orar (ing/ig)	Dern (mg/		Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalatior (dusts an mists) (m I)						
	6400	N/A		N/A	N/A	N/A						
ormation												
Result			Species			Exposure						
Acute EC50 267 µg/l Ma	rine water					72 hours						
Exponential growth phase						48 hours						
Acute LC50 04000 µg/I Fresh water Daphnia - Daphnia pulex Acute LC50 0.15 mg/I Fresh water Fish - Oncorhynchus mykiss						96 hours						
Chronic NOEC 31 µg/l Marine water Algae - Nitzschia closterium - 7					72 hours							
			Exponen	tial growth pha	ase							
Not available.												
No known significant effe	ects or critical haz	zards.										
iderations												
The generation of waste	should be avoide	ed or n	ninimized	wherever pos	sible Dispose	al of this						
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.												
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	Result Acute EC50 267 µg/l Ma Acute LC50 64000 µg/l Ma Acute LC50 0.15 mg/l Fr Chronic NOEC 31 µg/l M Not available. No known significant effe iderations The generation of waste product, solutions and ar environmental protection equirements. Dispose of contractor. Waste should equirements of all autho or landfill should only be must be disposed of in a have not been cleaned o Avoid dispersal of spilled rmation erous goods for transp Drmation	Result Acute EC50 267 µg/l Marine water Acute LC50 64000 µg/l Fresh water Acute LC50 0.15 mg/l Fresh water Acute LC50 0.15 mg/l Fresh water Chronic NOEC 31 µg/l Marine water Not available. Not available. No known significant effects or critical haz iderations The generation of waste should be avoide product, solutions and any by-products sh equirements. Dispose of surplus and no product, solutions and any by-products sh environmental protection and waste disposed equirements. Dispose of surplus and no product, solutions and any by-products sh environmental protection and waste disposed equirements of all authorities with jurisdid primation acvoid dispersal of spilled material and run rmation erous goods for transport. Ormation rdous Air Pollutants Listed ubstances Not listed Substances Not listed hemicals) Not listed	Result Acute EC50 267 µg/l Marine water Acute LC50 64000 µg/l Fresh water Acute LC50 0.15 mg/l Fresh water Chronic NOEC 31 µg/l Marine water Not available. Not known significant effects or critical hazards. iderations The generation of waste should be avoided or more out, solutions and any by-products should a genvironmental protection and waste disposed of un equirements of all authorities with jurisdiction. For landfill should only be considered when recyclinate out been cleaned or rinsed out. Empty convolution and the disposed of in a safe way. Care should have not been cleaned or rinsed out. 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No products were found.

SARA 304 RQ Not applicable.

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Peroxidase-labelled anti-BrdU; pa	art of Cell Proliferation Biotrak " ELISA, 10 x 96 wells			
SARA 311/312 Classification				
	Not applicable.			
Composition/information on in No products were found.	igredients			
no products were round.				
State regulations				
Massachusetts	None of the components are listed.			
New York	None of the components are listed.			
New Jersey	The following components are listed: CYANIDE compounds			
Pennsylvania	The following components are listed: CYANIDE COMPOUNDS			
<u>California Prop. 65</u>				
This product does not requ	ire a Safe Harbor warning under California Prop. 65.			
International regulations				
Chemical Weapon Convention	List Schedules I, II & III Chemicals			
Not listed.				
Montreal Protocol				
Not listed.				
Stockholm Convention on Persistent Organic Pollutants				
Not listed.				
Rotterdam Convention on Prior Informed Consent (PIC)				
Not listed.				
UNECE Aarhus Protocol on P	OPs and Heavy Metals			
Not listed.				
Inventory list				
United States	All components are listed or exempted.			
Europe	All components are listed or exempted.			
Canada inventory	All components are listed or exempted.			
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.

Calculation method

Justification

Procedure used to derive the classification

Classification AQUATIC HAZARD (LONG-TERM) - Category 2

History

Date of printing	5/7/2020
Date of issue/Date of revision	10/4/2019
Date of previous issue	4/26/2017
Version	9
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sds_author@cytiva.com



Key to abbreviat	ions 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 information 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.

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