

SAFETY DATA SHEET

United States

Section 1. Identification Product name

Peroxidase Labelled Anti-mouse Antibody; part of 'ECL Western Blotting Analysis System'

Catalogue Number

9 0 r p n 2 1 0 8

Other means of identification Product type

Not available. Liquid.

RPN2108

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	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1B AQUATIC HAZARD (LONG-TERM) - Category 3
	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1.2% Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1.2%
GHS label elements	
Hazard pictograms	
Signal word	Danger
Hazard statements	May cause an allergic skin reaction. May cause cancer. Harmful to aquatic life with long lasting effects.
Precautionary statements	
General	Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Avoid release to the environment. Avoid breathing vapor. Contaminated work clothing must not be allowed out of the workplace.

Article Number :

25006264-5



Page: 1/8 Validation date 27 April 2021 Peroxidase Labelled Anti-mouse Antibody; part of 'ECL Western Blotting Analysis System'

Response	IF exposed or concerned: Get medical attention. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention.
Storage	Store locked up.
Disposal	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards not otherwise classified	None known.

Substance/mixture Other means of identification	Mixture Not available.		
CAS number/other identifiers			
CAS number	Not applicable.		
Ingredient name		%	CAS number
magnesium nitrate		0.105 - 0.1175	10377-60-3
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 0.005 - 0.0125 55965-84-9 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)		55965-84-9	

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

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.
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 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.
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. 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.

	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	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	No specific data.
Skin contact	Adverse symptoms may include the following: irritation redness
Ingestion	No specific data.
Indication of immediate medical	attention and special treatment needed, if necessary
Notes to physician	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
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)

Article Number :

25006264-5

Page: 2/8 Validation date 27 April 2021

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	In a fire or if heated, a pressure increase will occur and the container may burst. 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: phosphorus 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. Avoid breathing vapor or mist. 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	inment and cleaning up
Small spill	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water- soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. 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 should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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. Store locked up. 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.



Page: 3/8 Validation date 27 April 2021

Section 8. Exposure controls/personal protection

Control parameters	
Occupational exposure limits	
magnesium nitrate reaction mass of: 5-chloro-2-metl 247-500-7] and 2-methyl-2H-isotl (3:1)	
Appropriate engineering controls	If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
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. 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.
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

-	
<u>Appearance</u>	
Physical state	Liquid.
Color	Colorless.
Odor	Odorless.
Odor threshold	Not available.
рН	Not available.
Melting point	Not available.
Boiling point	Not available.
Flash point	Not applicable.
Burning time	Not applicable.
Burning rate	Not applicable.
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/	Not available.
water	
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.

Article Number :

25006264-5

Page: 4/8 Validation date 27 April 2021

SADT	Not available.	
Viscosity	Not available.	
Flow time (ISO 2431)	Not available.	
Aerosol product		

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	D	ose	Exposure
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	LD50 Oral	Rat	53	3 mg/kg	-
Irritation/Corrosion					
Product/ingredient name reaction mass of: 5-chloro- 2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	Result Skin - Severe irritant	Species Human	Score -	Exposure 0.01 %	Observation -
Sensitization Not available.					
<u>Mutagenicity</u> Not available.					
<u>Carcinogenicity</u> Not available.					
Classification Product/ingredient name magnesium nitrate	osha iarc n i - 2A -	ſP			
Reproductive toxicity Not available.					
<u>Teratogenicity</u> Not available.					
Specific target organ toxicity (s Not available.	<u>ingle exposure)</u>				
<u>Specific target organ toxicity (repeated exposure)</u> Not available.					
Aspiration hazard Not available.					
Information on the likely routes of exposure	Routes of entry anticipated: Oral, Dermal, Inhalation.				
Potential acute health effects					
Eye contact	No known significant effects or critical hazards.				
Inhalation	No known significant effects or critical hazards.				
Skin contact	May cause an allergic skin reaction.				
Ingestion	No known significant effects or critical hazards.				

25006264-5



Peroxidase Labelled Anti-mouse Ar	illoody; part of ECL weste	rn Blotting Anal	ysis System			RPN210
Symptoms related to the physical	l, chemical and toxicologi	ical characteris	<u>stics</u>			
Eye contact	No specific data.					
Inhalation	No specific data.					
Skin contact	Adverse symptoms may include the following: irritation redness					
Ingestion	No specific data.					
Delayed and immediate effects ar	<u>nd also chronic effects fro</u>	om short and lo	ong term exp	osure		
Short term exposure						
Potential immediate effects Potential delayed effects	Not available. Not available.					
Long term exposure						
Potential immediate effects Potential delayed effects	Not available. Not available.					
Potential chronic health effects						
Not available.						
General	Once sensitized, a severe levels.	allergic reaction	n may occur v	when subseque	ntly exposed to	very low
Carcinogenicity	May cause cancer. Risk c	of cancer depen	ds on duratio	n and level of e	xposure.	
Mutagenicity	No known significant effec	cts or critical haz	zards.			
Teratogenicity	No known significant effect	cts or critical haz	zards.			
Developmental effects	No known significant effec	cts or critical haz	zards.			
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
reaction mass of 5-chloro-2-methy 2-methyl-2H-isothiazol-3-one (3:1)		53	50	N/A	0.5	I) N/A
Section 12. Ecological inf	formation					
•	ormation					
Toxicity Not available.						
Persistence and degradability Not available.						
<u>Bioaccumulative potential</u> Not available.						
<u>Mobility in soil</u> Soil/water partition coefficient (K	Not available.					
₀c) Other adverse effects	No known significant effects or critical hazards.					
Section 13. Disposal con	siderations					
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.					
RCRA classification	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Not classified					



Page: 6/8 Validation date 27 April 2021

Section 14. Transport information

Product is not regulated as dangerous goods for transport.

Product is not regulated as dangerous goods for transport.					
Section 15. Regulatory in	Section 15. Regulatory information				
U.S. Federal regulations	TSCA 8(a) CDR Exempt/Partial exemption: Not determined				
	Clean Water Act (CWA) 311: disodium hydrogenorthophosphate				
Clean Air Act Section 112(b) Haz (HAPs)	zardous Air Pollutants	Not listed			
Clean Air Act Section 602 Class		Not listed			
Clean Air Act Section 602 Class II Substances		Not listed			
DEA List I Chemicals (Precursor DEA List II Chemicals (Essential	,	Not listed Not listed			
SARA 302/304	,				
Composition/information on in	gredients				
No products were found.					
SARA 304 RQ	Not applicable.				
SARA 311/312					
Classification	SKIN SENSITIZATION - CARCINOGENICITY - C				
Composition/information on in					
Name	%	Classification			
magnesium nitrate	≤0.3	OXIDIZING SOLIDS - Category 2			
reaction mass of 5-chloro-2-meth	vl- <0.025	CARCINOGENICITY - Category 1B ACUTE TOXICITY (oral) - Category 3			
2H-isothiazol-3-one and 2-methy		ACUTE TOXICITY (dermal) - Category 2			
isothiazol-3-one (3:1)		ACUTE TOXICITY (inhalation) - Category 2 SKIN CORROSION - Category 1C			
		SKIN SENSITIZATION - Category 1A			
State regulations					
Massachusetts	The following componer PHOSPHATE, DIBASIC	nts are listed: PHOSPHORIC ACID, DISODIUM SALT; SODIUM			
New York	,	nts are listed: Sodium phosphate, dibasic			
New Jersey		nts are listed: SODIUM PHOSPHATE, DIBASIC; PHOSPHORIC ACID, NESIUM NITRATE; NITRIC ACID, MAGNESIUM SALT			
Pennsylvania		nts are listed: PHOSPHORIC ACID, DISODIUM SALT; NITRIC ACID,			
<u>California Prop. 65</u>					
This product does not requir	e a Safe Harbor warning ι	under California Prop. 65.			
International regulations					
Chemical Weapon Convention	List Schedules I, II & III C	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 POPs and Heavy Metals					
Not listed.					
Inventory list					
United States	Not determined.				
Europe	Not determined.				
Canada inventory	All components are liste	d or exempted.			
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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

Classit	fication	Justification	
SKIN SENSITIZATION - Categor CARCINOGENICITY - Categor AQUATIC HAZARD (LONG-TER	1B	Calculation method Calculation method Calculation method	
History			
Date of printing	4/27/2021		
Date of issue/Date of revision	4/27/2021		
Date of previous issue	9/27/2019		
Version	7		
	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 = 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.

