

SAFETY DATA SHEET

United States

Section 1. Identification Product name

Mouse IgG, HRP-linked Whole Ab, sheep, 1 ml

Catalogue Number NXA931-1ML

Other means of identification Product type

Not available. Liquid.

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. Research.

Supplier

Article Number :

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
	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 3% Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 3%
<u>GHS label elements</u> Hazard pictograms	
Signal word	Danger
Hazard statements	May cause an allergic skin reaction. May cause cancer.
Precautionary statements	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves. Avoid breathing vapor. Contaminated work clothing should not be allowed out of the workplace.
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.



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Hazards not otherwise	None known.
classified	

Section 3. Composition/information on ingredients

Mixture Not available.		
Not applicable.		
	%	CAS number
sodium nitrate 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)		7631-99-4 55965-84-9
	Not available. Not applicable. -4-isothiazolin-3-one [EC no. 247-500-7] and	Not available. Not applicable. -4-isothiazolin-3-one [EC no. 247-500-7] and Not available. % 0.105 - 0.1175 0.005 - 0.0125

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.
Most important symptoms/effect	s, 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 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 suitable training. If it is suspected
that fumes are still present, the rescuer should wear an appropriate mask or self-contained
breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth
resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)



Section 5. Fire-fighting measures

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.
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).						
Methods and materials for contai	nment 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 neget. Avoid breathing vapor or mist. 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 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. 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.

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Section 8. Exposure controls/personal protection

Control parameters							
Occupational exposure limits							
sodium nitrate	-						
reaction mass of: 5-chloro-2-meth							
247-500-7] and 2-methyl-2H-isoth (3:1)	niazoi-3-one [EC no. 220-239-6]						
Appropriate engineering controls							
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	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.						

Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	Liquid.
Color	•
	Colorless. / Brown. [Light]
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 (flammable) limits	Not available.
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.



Aerosol product

Section 10.	Stability and	d reactivity
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Reactivity Chemical stability Possibility of hazardous reactions	No specific test data related to reactivity available for this product or its ingredients. The product is stable. 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				0		Dese	-	
Product/ingredient name sodium nitrate 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 LD50 Oral LD50 Oral			Species Dose Rat 1267 mg/kg Rat 53 mg/kg		Exposure - -		
Irritation/Corrosion								
Product/ingredient name	Result			Species	Score	e Expos	ure Observation	۱
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)	Skin - Severe irritant		Human	-	0.01 Pe	ercent -		
Sensitization Not available.								
Mutagenicity Not available.								
Carcinogenicity Not available.								
Classification								
Product/ingredient name	OSHA	IARC	NTP					
sodium nitrate	-	2A	-					
Reproductive toxicity Not available.								
<u>Teratogenicity</u> Not available.								
Specific target organ toxicity (s Not available.	ingle exposu	<u>re)</u>						
Specific target organ toxicity (re Not available.	epeated expo	<u>sure)</u>						
Aspiration hazard Not available.								
Information on the likely routes of exposure	Routes of en	try anticipate	ed: Oral,	, Dermal, Inha	lation.			
Potential acute health effects								
Eye contact	No known si	anificant effe	ects or c	ritical hazards.				
Inhalation		0		ritical hazards.				
Skin contact	May cause a	-						
	-	-						

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Ingestion	No known significant effect							
Symptoms related to the physica	al, chemical and toxicolog	ical characteris	stics					
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 a	nd also chronic effects fro	om short and le	ong te	erm expo	<u>sure</u>			
<u>Short term exposure</u>								
Potential immediate effects	Not available.							
Potential delayed effects	Not available.							
Long term exposure								
Potential immediate effects	Not available.							
Potential delayed effects	Not available.							
Potential chronic health effects								
Not available.								
General	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.							
Carcinogenicity	May cause cancer. Risk of cancer depends on duration and level of exposure.							
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)	Der (mg		Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg	
sodium nitrate reaction mass of 5-chloro-2-meth 2-methyl-2H-isothiazol-3-one (3:1	5	1267 53	N/A 50		N/A N/A	N/A 0.5	I) N/A N/A	
Section 12. Ecological in	formation							
Toxicity								
Product/ingredient name	Result			Species			Exposure	
sodium nitrate	Acute EC50 522 mg/l Fre	sh water		•	mephales pror	melas	96 hours	
	Acute LC50 161 mg/l Fresh water			Crustaceans - Hyalella azteca - Adult				
	Acute LC50 323 mg/l Fresh water Chronic NOEC 1.6 mg/l Fresh water			Daphnia - Daphnia magna - Neonate Fish - Coregonus clupeaformis -				
		Testi walei		Embryo		earonnis -	120 days	
Persistence and degradability				,				
Not available.								
Bioaccumulative potential								
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 cor	U							
Section 15. Disposal col	1510612110115							
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							

RCRA classification

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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 Water Act (CWA) 311: disodium hydrogenorthophosphate							
Clean Air Act Section 112(b) Ha (HAPs)	zardous Air Pollutants	Not listed						
Clean Air Act Section 602 Class I Substances		Not listed						
Clean Air Act Section 602 Class II Substances		Not listed						
DEA List I Chemicals (Precursor Chemicals)		Not listed						
DEA List II Chemicals (Essentia	l Chemicals)	Not listed						
SARA 302/304								
Composition/information on in	ngredients							
No products were found.								
SARA 304 RQ	Not applicable.							
SARA 311/312 Classification	SKIN SENSITIZATION CARCINOGENICITY - (
Composition/information on ir	ngredients							
Name	%	Classification						
sodium nitrate	≤0.3	ACUTE TOXICITY (oral) - Category 4 CARCINOGENICITY - Category 1B						
reaction mass of 5-chloro-2-met	hvl- <0.025	ACUTE TOXICITY (oral) - Category 3						
2H-isothiazol-3-one and 2-methy	5	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		<i>,</i> ,						
Massachusetts	The following components are listed: PHOSPHORIC ACID, DISODIUM SALT							
New York	The following components are listed: Sodium phosphate, dibasic							
New Jersey		nts are listed: SODIUM PHOSPHATE, DIBASIC; PHOSPHORIC ACID,						
Pennsylvania		DISODIUM SALT The following components are listed: PHOSPHORIC ACID, DISODIUM SALT; NITRIC ACID SODIUM SALT						
International regulations								
Chemical Weapon Convention List Schedules I, II & III Chemicals								
Not listed.								
Montreal Protocol								
Not listed.								
Stockholm Convention on Per	sistent Organic Pollutant	<u>15</u>						
Not listed.								
Rotterdam Convention on Price	or Informed Consent (PIC	2						
Not listed.								
UNECE Aarhus Protocol on PO	<u>DPs and Heavy Metals</u>							
Not listed.								
Inventory list								
United States	Not determined.							
Europe	Not determined.							
•		All components are listed or exempted.						
Canada inventory	All components are liste	eu 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.

Procedure used to derive the classification

Classification		Justification				
SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1B AQUATIC HAZARD (LONG-TERM) - Category 3		Calculation method Calculation method Calculation method				
History						
Date of printing	2/8/2021					
Date of issue/Date of revision	2/3/2021					
Date of previous issue	1/16/2020					
Version	8					
	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 = Internediate 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.					
Visite the information that has also and from maximuch insured version						

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.

