

SAFETY DATA SHEET

United States

Section 1. Identification

Product name

Mouse Ig, HRP-linked Whole Ab, Sheep, 100 ul

Cvtiva USA

100 Results Way Marlborough, MA 01752

1-800-526-3593

Catalogue Number NA931-100UI

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 Cytiva

Amersham Place Little Chalfont Buckinghamshire HP7 9NA United Kingdom

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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

GHS label elements

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.

Hazards not otherwise

classified

None known.

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Validation date 4 July 2023



Section 3. Composition/information on ingredients

Substance/mixtureMixtureOther means of identificationNot available.

CAS number/other identifiers

CAS number Not applicable.

Ingredient name%CAS numbersodium nitrate0.105 - 0.11757631-99-4reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-0.005 - 0.012555965-84-93-one (3:1)

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 and hence require reporting in this section.

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

Section 4. First aid measures

Inhalation

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. 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/effects, acute and delayed

Potential acute health effects

Eye contactNo 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/symptoms

Specific treatments

Article Number :

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.
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)

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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 a

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 containment 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. 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.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

sodium nitrate None reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-None

isothiazol-3-one (3:1)

Biological exposure indices

No exposure indices known.

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

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

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

Appearance

Physical state Liquid.

Colorless. / Brown. [Light] Color

Odor Odorless. Odor threshold Not available рΗ Not available. Melting point/freezing point Not available Boiling point, initial boiling Not available point, and boiling range

Flash point Not applicable. **Burning time** Not applicable. **Burning rate** Not applicable. **Evaporation rate** Not available. **Flammability** Not available.

Lower and upper explosive

(flammable) limits

Article Number :

Not available.

Vapor pressure Not available.

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Vapor Pressure at 20°C Vapor pressure at 50°C

Ingredient name mm Ha kPa Method mm Hg kPa Method

water 23.8 3.2

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Relative vapor density Not available.
Relative density Not available.

Solubility(ies)

MediaResultcold waterEasily solublehot waterEasily soluble

Not applicable.

Not available.

Solubility in water Not available.

Miscible with water Yes.

Partition coefficient: n-octanol/

water

Auto-ignition temperature
Decomposition temperature
SADT
Not available.
Not available.
Viscosity
Not available.

Flow time (ISO 2431)

Particle characteristics

Median particle size Not applicable.

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 Under normal conditions of storage and use, hazardous reactions will not occur.

reactions

Conditions to avoid No specific data.

Incompatible materials No specific data.

Hazardous decomposition Under normal conditions of storage and use, hazardous decomposition products should not be

products produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name Result Species Dose Exposure 1267 mg/kg sodium nitrate LD50 Oral Rat reaction mass of: 5-chloro-LD50 Oral Rat 53 mg/kg 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) Irritation/Corrosion

Product/ingredient nameResultSpeciesScoreExposureObservationreaction mass of: 5-chloro-Skin - Severe irritantHuman-0.01 Percent-

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)

220-239-6] (3.

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name OSHA IARC NTP sodium nitrate - 2A -

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, Eyes.

of exposure

Potential acute health effects

Eye contactNo 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.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contactNo specific data.InhalationNo specific data.

Skin contact Adverse symptoms may include the following:

irritation redness

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.

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.

MutagenicityNo known significant effects or critical hazards.Reproductive toxicityNo 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)
sodium nitrate	1267	N/A	N/A	N/A	N/A
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	53	50	N/A	0.5	N/A

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
sodium nitrate	Acute EC50 522 mg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 161 mg/l Fresh water	Crustaceans - Hyalella azteca - Adult	48 hours
	Acute LC50 323 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Chronic NOEC 1.6 mg/l Fresh water	Fish - Coregonus clupeaformis -	120 days
	· ·	Embryo	•

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (K Not available.

oc)

Other adverse effects No known significant effects or critical hazards.

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Section 13. Disposal considerations

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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

RCRA classification Not classified

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) Hazardous Air Pollutants Not listed

(HAPs)

Clean Air Act Section 602 Class I Substances
Clean Air Act Section 602 Class II Substances
DEA List I Chemicals (Precursor Chemicals)
Not listed
DEA List II Chemicals (Essential Chemicals)
Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ Not applicable.

SARA 311/312

Classification SKIN SENSITIZATION - Category 1

CARCINOGENICITY - Category 1B

Composition/information on ingredients

Name % Classification

sodium nitrate 0.105 - 0.1175 ACUTE TOXICITY (oral) - Category 4

CARCINOGENICITY - Category 1B ACUTE TOXICITY (oral) - Category 3

reaction mass of 5-chloro-2-methyl- 0.005 - 0.0125

2H-isothiazol-3-one and 2-methyl-2Hisothiazol-3-one (3:1)

ACUTE TOXICITY (dermal) - Category 2

ACUTE TOXICITY (inhalation) - Category 2

SKIN CORROSION - Category 1C SKIN SENSITIZATION - Category 1A

State regulations

Massachusetts The following components are listed: PHOSPHORIC ACID, DISODIUM SALT

New York The following components are listed: Sodium phosphate, dibasic

New Jersey The following components are listed: SODIUM PHOSPHATE, DIBASIC; PHOSPHORIC ACID,

DISODIUM SALT

Pennsylvania 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 Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

Article Number :

UNECE Aarhus Protocol on POPs and Heavy Metals

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Not listed

Inventory list

United States Not determined.

Canada inventory All components are listed or exempted.

Section 16. Other information

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



Procedure used to derive the classification

Classification Justification

SKIN SENSITIZATION - Category 1 Calculation method CARCINOGENICITY - Category 1B Calculation method AQUATIC HAZARD (LONG-TERM) - Category 3 Calculation method

History

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 10.01

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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 information that has changed from previously issued version.

Notice to reader

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