Athens Research and Technology, Inc.

Revision Date: 13 Jan 25

SDS – SAFETY DATA SHEET

Version: 3

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 – Product Identifiers

Product Name: Polyclonal Antisera to Human Protein Antigens produced in Rabbit

- Anti-Apolipoprotein AI
- Anti-Apolipoprotein CII
- Anti-Azurocidin
- Anti-Catalase
- Anti-Cathepsin B
- Anti-Cathepsin D
- Anti-Cathepsin H
- Anti-Cathepsin L
- Anti-Elastase
- Anti-Haptoglobin
- Anti-Myeloperoxidase
- Anti-Thrombospondin
- Anti-Trypsin

Synonyms: Polyclonal Rabbit IgG, IgG-Rbt

Product Numbers:

- 01-16-120101
- 01-16-120302
- 01-14-012621
- 01-05-030000
- 01-12-030102
- 01-12-030104
- 01-12-030108
- 01-12-030112
- 01-14-051200
- 01-16-080116
- 01-14-130000
- 01-20-201319
- 01-19-032000

Brand: Athens Research and Technology

1.2 – Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Identified uses: Research Reagent Only, Not Approved for Therapeutic Use

Uses Advised Against: Not for Use as a Drug or Drug Component for Humans or Animals

1.3 – Details of the Supplier of the Safety Data Sheet

Supplier: Athens Research and Technology
110 Trans Tech Drive
Athens, GA 30601
USA

Email: sales@athensresearch.com

Telephone: +1 706-546-0207

Fax: +1 706-546-7395

1.4 – Emergency Telephone Number

Emergency Phone: +1 706-546-0207

Section 2: Hazards Identification

2.1 – Classification of the Substance or Mixture

GHS Classification:

Acute toxicity, Oral (Category 2), H300
Acute toxicity, Dermal (Category 1), H310
Acute toxicity, Inhalation (Category 2), H330
Specific target organ toxicity – repeated exposure, Oral (Category 2), Brain, H373
Short-term (acute) aquatic hazard (Category 1), H400
Long-term (chronic) aquatic hazard (Category 1), H410

OSHA Classification: No known OSHA Hazards

2.2 – GHS Label Elements, including precautionary statements

Pictogram 

Signal Word Danger

Hazard Statements

H300+H310+H330	Fatal if swallowed, in contact with skin, or if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

Precautionary Statements

P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P262	Do not get in eyes, on skin, or on clothing.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing.
P284	In case of inadequate ventilation, wear respiratory protection.
P301+P316	IF SWALLOWED: Get emergency medical help immediately.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P316	Get emergency medical help immediately.
P319	Get medical help if you feel unwell.
P361+P364	Take off immediately all contaminated clothing and wash it before reuse.
P391	Collect spillage.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 – Hazards not otherwise classified (HNOC) or not covered by GHS - Animal source material

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Section 3: Composition/Information on Ingredients

3.1 – Substance – Polyclonal Antisera to Human Protein Antigens produced in Rabbit. The product contains no substances which at their present concentrations are considered hazardous to health.

3.2 – Mixtures

Chemical ID	Synonyms	CAS-No.	EC-No.	Classification	Concentration
H_2O	Water	7732-18-5	231-791-2	None	≤98.9%
NaCl	Sodium Chloride	77647-14-5	24867-26-3	None	≤0.80%
Na_2HPO_4	Sodium phosphate, dibasic	7558-79-4	231-448-7	None	≤0.14%
KCl	Potassium chloride	7447-40-7	231-211-8	None	≤0.02%
KH_2PO_4	Potassium Phosphate, monobasic	7778-77-0	231-913-4	None	≤0.02%
Rabbit IgG Antisera to Human Antigens	IgG-Rbt	N/A	N/A	None	≥0.1%
NaN_3	Sodium azide	26628-22-8	247-852-1	Acute Tox. 2; Acute Tox. 1; STOT RE2; Aquatic Acute 1; Aquatic Chronic 1; H300, H330, H310, H373, H400, H410 M-Factor – Aquatic Acute: 1; M-Factor – Aquatic Chronic: 1	≤0.05%

Section 4: First Aid Measures

4.1 – Description of First Aid Measures

If Inhaled – If inhaled, move person into fresh air. If not breathing, give CPR

In Case of Skin Contact – Remove contaminated clothing. Wash skin with soap and water

In Case of Eye Contact – Flush eyes with plenty of water. Remove contact lens

If Swallowed - Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult physician

4.2 – Most Important Symptoms and Effect, both Acute and Delayed – No Information Available

4.3 – Indication of Immediate Medical Attention and Special Treatment Needed – Notes to Physician – Treat Symptomatically

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Section 5: Firefighting Measures

5.1 – Extinguishing Media - Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. No limitations of extinguishing agents are given.

5.2 – Special Hazards Arising from Substance – Not flammable or combustible

Carbon oxides
Nitrogen Oxides (Nox)
Oxides of phosphorus
Sodium oxides

5.3 – Advise for Firefighters – Use SCBA and full turn-out gear

5.4 – Further Information – Suppress (knockdown) gases/vapors/mists with a water spray jet

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Section 6: Accidental Release Measures

6.1 – Personal Precautions, Protective Equipment and Emergency Procedures – Safety glasses/goggles, gloves, lab coat. Avoid inhalation of dust

6.2 – Environmental Precautions - Do not let product enter drain system

6.3 – Methods and Material for Containment and Cleaning up - Pick up and arrange disposal in accordance with existing disposal practices employed for infectious waste at your location. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 – Reference to Other Sections – See Section 13 for disposal

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Section 7: Handling and Storage

7.1 – Precautions for Safe Handling – Avoid contact with skin and eyes. Provide appropriate exhaust ventilation at places where dust is formed.

7.2 – Conditions for Safe Storage, including any Incompatibilities – Keep container tightly closed in a dry and well-ventilated place. Recommended Storage temperature: 2-8°C

7.3 – Specific End Uses – Apart from the uses mentioned in Section 1.2, no other specific uses are stipulated.

Section 8: Exposure Controls/Personal Protection

8.1 – Control Parameters – Ingredients with Workplace Control Parameters

Component	CAS-No.	Value	Control Parameters	Basis	Remarks
Sodium azide	26628-22-8	C	0.29mg/m^3	USA. ACGIH Threshold Limit Value (TLV)	Not classifiable as a human carcinogen.
		C	0.11 ppm	USA. ACGIH Threshold Limit Value (TLV)	Not classifiable as a human carcinogen.
		C	0.1 ppm	USA. NIOSH Recommended Exposure Limits	Potential for absorption.

C	0.3 mg/m^3	USA. NIOSH Recommended Exposure Limits	Potential for absorption
C	0.1 ppm & 0.3mg/m^3	California Permissible exposure limits for chemical contaminants (Title 8, Article 10)	Skin

8.2 – Exposure Controls

Appropriate engineering controls – Change contaminated clothing. Wash hands after working with substance

Personal Protective Equipment

Respiratory Protection – Ensure adequate ventilation

Hand Protection – Handle with gloves, inspect prior to use

Eye Protection – Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH or EN 166

Skin & Body Protection – Lab coat, long pants/skirt, and closed toe shoes. PPE must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Engineering Measures – Ensure adequate ventilation

Hygiene Measures – General industrial hygiene practice

Control of Environmental Exposure – No special precautions necessary

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Section 9: Physical and Chemical Properties

9.1 – Information on Basic Physical and Chemical Properties

Physical State @ 20°C	Aqueous Solution
Color	Clear liquid
Odor	No data available

pH	7.4
Melting point/Freezing Point	No data available
Boiling Point/Boiling Range	No data available
Flash Point	No data available
Flammability	No data available
Ignition temperature	No data available
Auto-ignition temperature	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapor pressure	No data available
Density	No data available
Solubility in Water	No data available
Solubility in Oil	No data available
Solubility in Acetone	No data available
Relative vapor density	No data available
Decomposition temperature	No data available
Kinematic viscosity	No data available
Partition coefficient n-octanol/water	No data available
Evaporation Rate	No data available
Odor Threshold	No data available
Particle Characteristics	Not Applicable

9.2 – Other information – No data available

Section 10: Stability and Reactivity

10.1 – Reactivity – No data available

10.2 – Chemical Stability – Stable under recommended storage conditions

10.3 – Possibility of Hazardous Reactions – No data available

10.4 – Conditions to Avoid – No data available

10.5 – Incompatible Materials – Halogenated hydrocarbon, acids, bases, oxidizing agents, strong oxidizing agents, metal, acid chlorides

10.6 – Hazardous Decomposition Products – In the event of fire see Section 5

Section 11: Toxicological Information

11.1 – Information on Hazard Classes

Mixture

Acute Toxicity Data

Oral – No data available

Inhalation – No data available

Dermal – No data available

Ingestion – No data available.

Skin Corrosion/Irritation – No data available.

Serious Eye Damage/Irritation – No data available.

Respiratory or Skin sensitization – No data available.

Related Symptoms – No data available

Acute & Chronic Effects – No data available

Reproductive toxicity – No data available

Teratogenicity – No data available

Germ cell Mutagenicity – No data available

STOT-single exposure – No data available

STOT-repeated exposure – No data available

Aspiration Hazard – No data available

Carcinogenicity

IARC – No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen.

NTP – No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen.

OSHA – No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Component – Sodium Azide

Acute Toxicity Data

Oral - LD50 – Rat - 27 mg/kg. Remarks: RTECS
Inhalation LC50 – Rat – male and female - 4 h - 0.054 - 0.52 mg/l. Remarks: US-EPA
Dermal LD50 – Rabbit – 20mg/kg Remarks: RTECS

Ingestion – May be harmful if swallowed.

Skin Corrosion/Irritation – May be harmful if absorbed through the skin. May cause irritation.

Serious Eye Damage/Irritation – May cause eye irritation.

Respiratory or Skin sensitization – May be harmful if inhaled. May cause respiratory tract irritation.

Related Symptoms – No data available

Acute & Chronic Effects – No data available

Reproductive toxicity – No data available

Teratogenicity – No data available

Germ cell Mutagenicity – No data available

STOT-single exposure – No data available

STOT-repeated exposure – Central nervous system (CNS) Cardiovascular system, Liver, Kidney, Heart, and Spleen

Aspiration Hazard – No data available

Carcinogenicity

IARC – No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen.

NTP – No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen.

OSHA – No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

11.2 – Information on Other Hazards – No data available

Section 12: Ecological Information

12.1 – Ecotoxicity – Toxicity to daphnia and other aquatic invertebrates – EC50
- Daphnia pulex (water flea) – 4.2 mg/l – 48 h (sodium azide)

Toxicity to fish – flow-through test LC50 – *Oncorhynchus mykiss* (rainbow trout) – 2.75mg/ml – 96h (OEC Test Guideline 203)

Toxicity to algae – static test ErC50 – *Pseudokirchneriella subcapitata* – 0.35mg/l – 96h (OECD Test Guideline 201)

12.2 – Persistence/Degradability - No data available

12.3 – Bioaccumulation potential - No data available

12.4 – Mobility in Soil - No data available

12.5 – Results of PBT and vPvB assessment - No data available

12.6 – Endocrine disrupting properties - No data available

12.7 – Other Adverse Effects - No data available

Section 13: Disposal Considerations

13.1 – Waste Treatment Methods

Contaminated Packaging – Empty containers should be taken to an approved waste handling site for recycling or disposal.

Waste from Residues/Unused Products – Dispose of in accordance with local regulations

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Section 14: Transport Information

DOT – Not dangerous goods. This substance is considered to be non-hazardous for transport.

ADR – Not dangerous goods. This substance is considered to be non-hazardous for transport.

IATA – Not dangerous goods. This substance is considered to be non-hazardous for transport.

Section 15: Regulatory Information

15.1 – Safety, Health, and Environmental Regulations

OSHA Hazards	No known OSHA hazards
SARA 311/312 Hazards	No SARA hazards.
SARA 302 Components	Sodium Azide – CAS No. 26628-22-8
SARA 313 Components	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels.

Massachusetts Right to Know Components	H_2O CAS-No. 7732-18-5 NaCl CAS-No. 7647-14-5 NaH_2PO_4 CAS-No. 7558-80-7 Rabbit IgG CAS-No. N/A NaN_3 CAS-No. 26628-22-8

Pennsylvania Right to Know Components	H_2O CAS-No. 7732-18-5 NaCl CAS-No. 7647-14-5 NaH_2PO_4 CAS-No. 7558-80-7 Rabbit IgG CAS-No. N/A NaN_3 CAS-No. 26628-22-8
New Jersey Right to Know Components	H_2O CAS-No. 7732-18-5 NaCl CAS-No. 7647-14-5 NaH_2PO_4 CAS-No. 7558-80-7 Rabbit IgG CAS-No. N/A NaN_3 CAS-No. 26628-22-8
California Prop. 65 Components	This product does not contain any chemicals known to State of California to cause cancer, birth defects or any other reproductive harm.

15.2 Chemical Safety Assessment - No data available

Section 16: Other Information

The above information is believed to be correct but does not purport to be all inclusive. It shall be used only as a guide for experienced personnel. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

This material is a laboratory reagent for research use only. It is not to be administered to humans or used for any drug purpose.

Athens Research and Technology shall not be held liable for any damage resulting from handling or from contact with the above product. See www.athensresearch.com for additional terms and conditions of sale.

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Version 3