

# Athens Research and Technology, Inc.

## SDS - SAFETY DATA SHEET

### 1. IDENTIFICATION

PRODUCT NAME	IgG, Rat Serum
PRODUCT NO.	16-16-090707-RAT
BRAND	Athens Research and Technology
Use of substance	Research Reagent

SUPPLIER	Athens Research and Technology 110 Trans Tech Drive Athens, GA 30601 USA
TELEPHONE	+1 706-546-0207
FAX	+1 706-546-7395
EMERGENCY PHONE	+1 706-546-0207

### 2. HAZARDS IDENTIFICATION

OSHA Hazards	No known OSHA Hazards
Other Hazards which do not result in classification	Rat Source: Appropriate safety procedure must be followed. Handle as if capable of transmitting infectious agents.

GHS Classification	Not a dangerous substance or mixture according to the Globally Harmonised System (GHS)
Signal Word	Warning

#### Hazard Statements:

<b>H303</b>	<b>Ingestion</b>	May be harmful if swallowed
<b>H313/H316</b>	<b>Skin</b>	May be harmful if absorbed through the skin. May cause irritation.
<b>H319</b>	<b>Eyes</b>	May cause eye irritation
<b>H333/H335</b>	<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.

<b>HMIS Classification:</b>		<b>NFPA Rating:</b>	
<b>HEALTH</b>	<b>1</b>	<b>HEALTH</b>	<b>0</b>
<b>FLAMMABILITY</b>	<b>0</b>	<b>FIRE</b>	<b>0</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>	<b>REACTIVITY</b>	<b>0</b>
<b>PERSONAL PROTECTION</b>	Safety Glasses/gloves	<b>SPECIAL</b>	

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**3. COMPOSITION/INFORMATION ON INGREDIENTS:**

The product contains no substances which at their present concentrations are considered to be hazardous to health.

SUBSTANCE					MIXTURE
Chemical ID	Common name/synonym	CAS-No.	EC No.	Classifications	Concentration
IgG-Rat	Immunoglobulin G, Rat	-	-	-	≥8%
NaH <sub>2</sub> PO <sub>4</sub> +H <sub>2</sub> O	Sodium phosphate, monobasic, monohydrate/ Monosodium phosphate	10049-21-5	231-449-2	-	≤21%
NaCl	Sodium Chloride/ Halite	7647-14-5	231-598-3	-	≤67%
NaN <sub>3</sub>	Sodium Azide	26628-22-8	247-852-1	-	≤0.05%

**4. FIRST AID MEASURES**

<b>Inhalation</b>	If inhaled, move person into fresh air. If not breathing, give CPR
<b>Skin Contact</b>	In case of skin contact wash off with soap and plenty of water
<b>Eye Contact</b>	In case of eye contact flush eyes with water
<b>Ingestion</b>	If swallowed never give anything by mouth to an unconscious person. Rinse mouth with water. Consult physician.

**5. FIRE FIGHTING MEASURES**

<b>Suitable Extinguishing Media</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Hazards From Chemical</b>	Not flammable or combustible
<b>Special PPE for Firefighters</b>	Use SCBA and full turnout gear
<b>Hazardous Combustion Products</b>	Hazardous decomposition products formed under fire conditions. Nature of decomposition products not known

**6. ACCIDENTAL RELEASE MEASURES**

<b>Personal Precautions</b>	Safety glasses/goggles, gloves, labcoat. Avoid breathing vapors, mist, or gas
<b>Environmental Precautions</b>	Do not let product enter drain system

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<b>Methods &amp; Materials for containment and clean up</b>	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.
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## 7. HANDLING AND STORAGE

<b>Precautions for safe handling</b>	Avoid contact with skin and eyes. Provide appropriate exhaust ventilation at places where dust is formed.
<b>Conditions for safe storage</b>	Keep container tightly closed in a dry and well-ventilated place. Recommended Storage temperature: -20 C

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Exposure Limit Value</b>	Contains no substances with occupational exposure limit values
<b>PPE – Personal Protective Equipment</b>	<p><b>Respiratory Protection</b> – Not required</p> <p><b>Hand Protection</b> – Handle with gloves, inspect prior to use</p> <p><b>Eye Protection</b> – Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH or EN 166</p> <p><b>Skin &amp; Body Protection</b> – PPE must be selected according to the concentration and amount of the dangerous substance at the specific workplace.</p> <p><b>Hygiene Measures</b> – General industrial hygiene practice</p>

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### APPEARANCE

<b>Form</b>	Solid, Lyophilized
<b>Color</b>	White

### SAFETY DATA

<b>pH</b>	7.4
<b>Melting point/Freezing Point</b>	No data available
<b>Boiling Point</b>	No data available
<b>Flash Point</b>	No data available
<b>Ignition temperature</b>	No data available
<b>Auto-ignition temperature</b>	No data available
<b>Lower explosion limit</b>	No data available
<b>Upper explosion limit</b>	No data available
<b>Vapor pressure</b>	No data available

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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
Odor Characteristics	No data available
Evaporation rate	No data available

## 10. STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions
Possibility of hazardous reactions	No data available
Conditions to Avoid	No data available
Materials to Avoid	Halogenated hydrocarbon, Acids, Metals, Acid Chlorides
Hazardous Combustion Products	Hazardous decomposition products formed under fire conditions. Nature of decomposition products not known

## 11. Toxicological Information

### Acute Toxicity Data:

### NUMERIC MEASURES OF TOXICITY

Oral LD50	Rabbit - 10mg/kg (Sodium azide)
Inhalation LC50	Rat - 37mg/m <sup>3</sup> (Sodium azide)
Dermal LD50	Rabbit - 20mg/kg (Sodium azide)
Other acute toxicity information	No data available
Remarks	Sense Organs and Special Senses (Nose, Eye, Ear, and Taste): Eye: Other. Behavioral: Convulsions or effect on seizure threshold. Lungs, Thorax, or Respiration: Structural or functional change in trachea or bronchi.

### ROUTES OF EXPOSURE

Ingestion	May be harmful if swallowed
Skin	May be harmful if absorbed through the skin. May cause irritation.
Eyes	May cause eye irritation
Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.

### Potential Health Effects

Single Exposure	No data available
Repeated Exposure	No data available
Related Symptoms	No data available
Acute & Chronic Effects	No data available
Reproductive toxicity	No data available

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<b>Teratogenicity</b>	No data available
<b>Mutagenicity</b>	No data available

Signs and Symptoms of Exposure – Nausea, Headache, Vomiting, Laboratory experiments in animals have shown sodium azide to produce a profound hypotensive effect, demyelination of myelinated nerve fibers in the central nervous system, testicular damage, blindness, attacks of rigidity, and hepatic and cerebral effects. (Sodium azide)

#### Carcinogenicity

<b>IARC</b>	No component of this product present at levels greater than or equal to 0.1% is identified as possible or confirmed human carcinogen.
<b>NTP</b>	
<b>OSHA</b>	

### 12. Ecological Information

#### Ecotoxicity, Persistence/Degradability, Bioaccumulation, Mobility in Soil, and Other Adverse

Effects: Toxicity to daphnia and other aquatic invertebrates - EC50 - Daphnia pulex (Water flea) - 4.2 mg/l - 48 h (Sodium azide)

### 13. Disposal Considerations

<b>Contaminated packaging</b>	Dispose of unused product in accordance with environmental control regulations
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### 14. Transport Information

<b>DOT Classification</b>	Not dangerous goods. This substance is considered to be non-hazardous for transport. Non-hazardous for air transport.
<b>IMDG</b>	Not dangerous goods. This substance is considered to be non-hazardous for transport. Non-hazardous for air transport
<b>IATA</b>	Not dangerous goods. This substance is considered to be non-hazardous for transport. Non-hazardous for air transport

### 15. Regulatory Information

<b>OSHA Hazards</b>	No known OSHA hazards
<b>SARA 311/312 Hazards</b>	No SARA hazards Reportable qty: lowest RQ>999999 lbs
<b>SARA 302 Components</b> Subject to reporting levels established	Sodium Azide –CAS.-No. 26628-22-8

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by SARA Title III, Section 302:	
<b>SARA 313 Components</b> Subject to reporting levels established by SARA Title III, Section 313:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels.
<b>Massachusetts Right To Know Components</b>	IgG, Rat - CAS-No. Not available Sodium phosphate, monobasic, monohydrate –CAS-No. 10049-21-5 Sodium Chloride –CAS-No. 7647-14-5 Sodium Azide –CAS. No. 26628-22-8
<b>Pennsylvania Right To Know Components</b>	IgG, Rat - CAS-No. Not available Sodium phosphate, monobasic, monohydrate –CAS-No. 10049-21-5 Sodium Chloride –CAS-No. 7647-14-5 Sodium Azide –CAS. No. 26628-22-8
<b>New Jersey Right To Know Components</b>	IgG, Rat - CAS-No. Not available Sodium phosphate, monobasic, monohydrate –CAS-No. 10049-21-5 Sodium Chloride –CAS-No. 7647-14-5 Sodium Azide –CAS. No. 26628-22-8
<b>California Prop. 65 Components</b>	This product does not contain any chemicals known to State of California to cause cancer, birth defects or any other reproductive harm.

## 16. Other Information

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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.

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