

# Athens Research and Technology, Inc. SDS - SAFETY DATA SHEET

Revision Date: 10 November 2023 Version: 3

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

## 1.1 - Product Identifiers

Product Name: Immunoglobulin G2, Human Myeloma Plasma

Synonyms: IgG2 Myeloma, IgG2 Kappa Myeloma, and IgG2 Lambda Myeloma

Product Number: 16-16-090707-2M

Brand: Athens Research and Technology

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

Identified uses: Research & In Vitro/Non-Therapeutic Reagent Uses 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: <u>sales@athensresearch.com</u>

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: Not a dangerous substance or mixture according to the Globally Harmonized

System (GHS)

OSHA Classification: No known OSHA Hazards

#### 2.2 - Label Elements



Precautionary Statement: Human Source: Appropriate safety procedures must be followed for

human source material as found in: Laboratory Biosafety Guidelines (3rd

Ed., 2004). Handle as if capable of transmitting infectious agents.

Signal Word: Warning

Hazard Statement:

H303 – Ingestion May be harmful if swallowed.

H313/H316 – Skin May be harmful if absorbed through skin. May cause irritation.

H319 – Eyes May cause eye irritation.

H333/H335 – Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

#### 2.3 - Other Hazards - None

## Section 3: Composition/Information on Ingredients

**3.1 – Substance –** Immunoglobulin G2, Human Myeloma Plasma. 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 <sub>2</sub> O	Water	7732-18-5	231-791-2	None	≥98%
NaCl	Sodium chloride	7647-14-5	231-598-3	None	≤0.9%
NaH <sub>2</sub> PO <sub>4</sub> +H <sub>2</sub> O	Sodium phosphate, Monobasic, monohydrate	10049-21-5	231-449-2	None	≤0.3%
Immunoglobulin G2	lgG2	None	None	None	≥0.1%
NaN <sub>3</sub>	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

## **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 –** Hydrogen chloride gas, Sodium oxides, Not combustible, and Ambient fire may liberate hazardous vapours.
- **5.3 Advise for Firefighters –** Use SCBA and full turn-out gear.
- **5.4 Further Information –** Suppress (knockdown) gases/vapours/mists with a water spray jet.

#### Section 6: Accidental Release Measures

- **6.1 Personal Precautions, Protective Equipment and Emergency Procedures** Safety glasses/goggles, gloves, lab coat. Avoid inhalation of dust, vapours, or aerosols.
- **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

#### 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, vapours, or aerosols are formed.
- **7.2 Conditions for Safe Storage, Including any Incompatibilities –** Keep container tightly closed in a dry and well-ventilated place. Recommended Storage temperature: -20°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	<b>Control Parameters</b>	Basis	Remarks
Sodium azide	26628-22-8	С	0.29mg/m <sup>3</sup>	USA. ACGIH Threshold Limit Value (TLV)	Not classifiable as a human carcinogen.
		С	0.11 ppm	USA. ACGIH Threshold Limit Value (TLV)	Not classifiable as a human carcinogen.
		С	0.1 ppm	USA. NIOSH Recommended Exposure Limits	Potential for dermal absorption.
		С	0.3 mg/m <sup>3</sup>	USA NIOSH Recommended Exposure Limits	Potential for dermal absorption
		С	0.1 ppm & 0.3mg/m <sup>3</sup>	California permissible exposure limits for chemical contaminants (Title 8, Article 10	Skin 7)

#### 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, 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

**Control of Environmental Exposure –** No special precautions necessary

## **Section 9: Physical and Chemical Properties**

## 9.1 – Information on Basic Physical and Chemical Properties

Physical State @ 20°C Aqueous Liquid
Color Clear Liquid
Odour 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 **Odour 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, metals, 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 –** 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** – 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.

**11.2 – Information on Other Hazards –** To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.

# **Component - Sodium azide**

#### **Acute Toxicity Data**

LD50 Oral - Rat - 27 mg/kg. Remarks: RTECS

LC50 Inhalation - Rat - male and female - 4 h - 0.054 - 0.52 mg/l. Remarks: US-EPA

LD50 Dermal - Rabbit - 20 mg/kg. Remarks: RTECS

**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

**Teratogenicity** – No data available

Germ cell Mutagenicity – No data available

Carcinogenicity – See section 11.1

Reproductive Toxicity – 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

## **Section 12: Ecological Information**

- **12.1 Ecotoxicity, Mixture** No data available
- 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

#### Component - Sodium azide

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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)

#### **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.

# **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.

	IgG2 - CAS-No. Not applicable	
Managahusatta Dight Ta Knaw	Sodium phosphate, monobasic –CAS-No. 10049-21-5	
Massachusetts Right To Know	Sodium Chloride –CAS-No. 7647-14-5	
Components	Sodium Azide –CAS-No. 26628-22-8	
	Water -CAS-No. 7732-18-5	
	IgG2 - CAS-No. Not applicable	
Daniel Diekt Ta Koass	Sodium phosphate, monobasic –CAS-No. 10049-21-5	
Pennsylvania Right To Know	Sodium Chloride –CAS-No. 7647-14-5	
Components	Sodium Azide –CAS-No. 26628-22-8	
	Water –CAS-No. 7732-18-5	
	IgG2 - CAS-No. Not applicable	
Nove Issue of Birth To Know	Sodium phosphate, monobasic –CAS-No. 10049-21-5	
New Jersey Right To Know	Sodium Chloride –CAS-No. 7647-14-5	
Components	Sodium Azide –CAS-No. 26628-22-8	
	Water –CAS-No. 7732-18-5	
	This product does not contain any chemicals known to State of	
California Prop. 65 Components	California to cause cancer, birth defects or any other	
	reproductive harm.	



## 15.2 Chemical Safety Assessment - No data available

#### Section 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.

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