

Athens Research and Technology, Inc.

SDS - SAFETY DATA SHEET

1. IDENTIFICATION

1.1 Product Identifier

PRODUCT NAME	C-Reactive Protein, Human Plasma
PRODUCT NO.	16-16-031816
BRAND	Athens Research and Technology

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of substance	Research Reagent
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1.3 Details of the supplier of the safety data sheet

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

1.4 Emergency telephone number

EMERGENCY PHONE	CHEMTREC, Inside the USA: +1-800-424-9300 CHEMTREC, Outside the USA: +1-703-527-3887
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2. HAZARDS IDENTIFICATION

2.1

Classification of the substance or mixture	Not a hazardous substance or mixture
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2.2

GHS Label elements, including precautionary statements	Not a hazardous substance or mixture
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2.3

Hazards not otherwise classified or not covered by GHS	Human Source Material: Appropriate safety procedure must be followed for human source material as found in: <i>Laboratory Biosafety Guidelines (3rd Ed., 2004)</i> Handle as if capable of transmitting infectious agents
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3. COMPOSITION/INFORMATION ON INGREDIENTS:

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

16-16-031816, C-Reactive Protein Human Plasma

Athens Research & Technology

SUBSTANCE					MIXTURE
Chemical ID	Common name/synonym	CAS-No.	EC No.	Additives	Concentration
C-Reactive Protein	C-Reactive Protein	9007-41-4	N/A	-	0.1-0.2%
Tris(hydroxymethyl)aminomethane	Tris	77-86-1	201-064-4	-	0.24%
Sodium Chloride	Sodium Chloride/ Halite	7647-14-5	231-598-3	-	1.64%
Calcium Chloride Dihydrate	Calcium Chloride	10035-04-8	233-140-8	-	0.075%
Sodium Azide	Sodium Azide	26628-22-8	247-852-1	-	0.05%
H ₂ O	Water	7732-18-5	231-791-2	-	98%

4. FIRST AID MEASURES

4.1 Description of first aid measure

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

4.2

Most important symptoms and effects, both acute and delayed	The most important known symptom and effects are described in the labelling (see section 2.2) and/or in section 11.
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4.3

Indication of immediate medical attention and special treatment needed	No data available
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5. FIRE FIGHTING MEASURES

5.1

Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
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5.2

Special Hazards Arising from the Substance or Mixture	Nature of decomposition products not known
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5.3

Advice for Firefighters	Wear self-contained breathing apparatus and full protective gear.
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6. ACCIDENTAL RELEASE MEASURES

6.1

Personal Precautions, protective equipment, and emergency procedures	Avoid dust formation. Avoid breathing vapors, mist, or gas. Use appropriate personal protective equipment to avoid contact.
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6.2

Environmental Precautions	No special precautions are required for the product
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6.3

Methods & Materials for containment and clean 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.
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6.4

Reference to other sections	Refer to protective measures listed in Sections 8 and 13
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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.
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7.2

Conditions for safe storage	Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: -20 C
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7.3

Specific end use	Laboratory Research Reagent
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

Exposure Limit Value	Contains no substances with occupational exposure limit values
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8.2 Exposure Controls

Engineering Measures	General industrial hygiene practice. Ensure adequate ventilation
PPE – Personal Protective Equipment	<p>Respiratory Protection – Not required</p> <p>Hand Protection – Handle with gloves, inspect prior to use</p> <p>Eye Protection – Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH or EN 166</p> <p>Skin & Body Protection – PPE must be selected according to the concentration and amount of the dangerous substance at the specific workplace.</p>

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Aqueous solution
Odor	No data available
Odor Threshold	No data available
pH	8.0
Melting point/Freezing Point	No data available
Boiling Point	No data available
Flash Point	No data available
Evaporation Rate	No data available
Flammability (solid/gas)	No data available
Explosive Limits	No data available
Vapor Pressure	No data available
Vapor Density	No data available
Relative Density	No data available
Partition coefficient: n-octanol/water	No data available
Auto-ignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available
Explosive Properties	No data available
Oxidizing Properties	No data available

9.2 Other Information

No data available

10. STABILITY AND REACTIVITY

10.1

Reactivity	No data available
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10.2

Chemical Stability	Stable under recommended storage conditions
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10.3

Possibility of hazardous reactions	No data available
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10.4

Conditions to Avoid	No data available
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10.5

Incompatible Material	Halogenated hydrocarbon, Acids, Metals, Acid Chlorides
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10.6

Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. Nature of decomposition products not known
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11. Toxicological Information**11.1 Information on Toxicological Effects**

Acute Toxicity Data: No data available

Oral	Rabbit – 10mg/kg (Sodium azide)
Inhalation	Rat – 37mg/m ³ (Sodium azide)
Dermal	Rabbit – 20mg/kg (Sodium azide)
Other acute toxicity information	No data available
Skin corrosion/ irritation	May be harmful if absorbed through the skin. May cause irritation.
Serious eye damage/ eye irritation	May cause eye irritation
Respiratory or skin sensitization	May be harmful if inhaled. May cause respiratory tract irritation.
Germ cell mutagenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity-single exposure	No data available
Specific target organ toxicity- repeated exposure	No data available
Aspiration hazard	No data available
Additional information	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

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

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

12. Ecological Information

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

12.2 Persistence and degradability - No data available

12.3 Bioaccumulative - No data available

12.4 Mobility in soil - No data available

12.5 Results of PBT and vPvB assessment – No data available

12.6 Other adverse effects - No data available

13. Disposal Considerations

13.1 Waste Treatment Methods

Product and contaminated packaging	Dispose of unused product in accordance with environmental control regulations
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14. Transport Information

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

15. Regulatory Information

OSHA Hazards	No known OSHA hazards
SARA 311/312 Hazards	No SARA hazards Reportable qty: lowest RQ>999999 lbs
SARA 302 Components Subject to reporting levels established by SARA Title III, Section 302:	Sodium Azide –CAS.-No. 26628-22-8
SARA 313 Components 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.

Massachusetts Right To Know Components	C-Reactive Protein – CAS- No. 9007-41-4 Tris(hydroxymethyl)aminomethane – CAS-No. 77-86-1 Sodium Chloride – CAS No. 7647-14-5 Calcium Chloride Dihydrate – CAS No. 10035-04-8 Sodium Azide – CAS No. 26628-22-8 Water – CAS No. 7732-18-5
Pennsylvania Right To Know Components	C-Reactive Protein – CAS- No. 9007-41-4 Tris(hydroxymethyl)aminomethane – CAS-No. 77-86-1 Sodium Chloride – CAS No. 7647-14-5 Calcium Chloride Dihydrate – CAS No. 10035-04-8

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	Sodium Azide – CAS No. 26628-22-8 Water – CAS No. 7732-18-5
New Jersey Right To Know Components	C-Reactive Protein – CAS- No. 9007-41-4 Tris(hydroxymethyl)aminomethane – CAS-No. 77-86-1 Sodium Chloride – CAS No. 7647-14-5 Calcium Chloride Dihydrate – CAS No. 10035-04-8 Sodium Azide – CAS No. 26628-22-8 Water – CAS No. 7732-18-5
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.

16. Other Information

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

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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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SDS Document preparation date: 16 Jan. 2020

Version 1