



Athens Research and Technology, Inc.

Revision Date: 20 Dec 24

SDS – SAFETY DATA SHEET

Version: 3

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

### **1.1 – Product Identifiers**

Product Name: Thrombospondin, Human Platelet

Synonyms: TSP

Product Number: 16-20-201319

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](mailto:sales@athensresearch.com)

Telephone: +1 706-546-0207

Fax: +1 706-546-7395

### **1.4 – Emergency Telephone Number**

Emergency Phone: +1 706-546-0207

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## 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 – GHS Label Elements, including precautionary statements** – Not a hazardous substance or mixture.

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

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## Section 3: Composition/Information on Ingredients

**3.1 – Substance** – Thrombospondin from Human Platelet. 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
C <sub>12</sub> H <sub>22</sub> O <sub>11</sub>	Sucrose, Sugar, D(+)- Saccharose, α-DGlucopyranosyl β-Dfructofuranoside	57-50-1	200-334-9	None	≤84.0%
NaCl	Sodium Chloride	7647-14-5	231-598-3	None	≤14.8%
C <sub>4</sub> H <sub>11</sub> NO <sub>3</sub>	Tris, Tris(hydroxymethyl) Aminomethane	77-86-1	201-064-4	None	≤1.03%
CaCl <sub>2</sub>	Calcium Chloride	10035-04-8	233-140-8	None	≤0.10%
Thrombospondin	TSP	N/A	N/A	None	≥0.02%

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## 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

**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: -20°C

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

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## **Section 8: Exposure Controls/Personal Protection**

**8.1 – Control Parameters** – Exposure Limit Value – Contains no substances with occupational exposure limit values

### **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	Solid, Lyophilized
Color	White
Odor	No data available
pH	8.0
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**

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### **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 – Strong oxidizing agents**

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

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### **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.

**11.2 – Information on Other Hazards** – No data available

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**Section 12: Ecological Information**

**12.1 – Ecotoxicity** - 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** - No data available

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## 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.

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## Section 15: Regulatory Information

### 15.1 – Safety, Health, and Environmental Regulations

<b>OSHA Hazards</b>	No known OSHA hazards
<b>SARA 311/312 Hazards</b>	No SARA hazards.
<b>SARA 302 Components</b>	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
<b>SARA 313 Components</b>	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>	NaCl CAS-No. 7647-14-5 $C_{12}H_{22}O_{11}$ CAS-No. 57-50-1 $C_4H_{11}NO_3$ CAS-No. 77-86-1 Thrombospondin CAS-No. N/A $CaCl_2$ CAS-No. 10035-04-8
<b>Pennsylvania Right to Know Components</b>	NaCl CAS-No. 7647-14-5 $C_{12}H_{22}O_{11}$ CAS-No. 57-50-1 $C_4H_{11}NO_3$ CAS-No. 77-86-1 Thrombospondin CAS-No. N/A $CaCl_2$ CAS-No. 10035-04-8
<b>New Jersey Right to Know Components</b>	NaCl CAS-No. 7647-14-5 $C_{12}H_{22}O_{11}$ CAS-No. 57-50-1 $C_4H_{11}NO_3$ CAS-No. 77-86-1 Thrombospondin CAS-No. N/A $CaCl_2$ CAS-No. 10035-04-8
<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.

## 15.2 Chemical Safety Assessment - No data available

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### 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.

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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