

Product name : Human Pentraxin3 / TSG-14 ELISA System (Code No. PP-PD03-E0) 1/7

Reference Number : PT150001

Issuing Date : 5 Augst 2021

Revision Date : 1 July 2023

## 1. Identification of Substance / Mixture and of the Company / Undertaking

- **Other means of identification / Components name** : Anti-human PTX3 antibody precoated strip well plate
- **Application of the substance / the preparation** : For research use only.
- **Company** : Perseus Proteomics Inc.
  - Address** : 30-1 Nihonbashi-hakozakicho, Chuo-ku, Tokyo, 103-0015, Japan
  - Telephone** : +81-3-6264-8268
  - Fax** : +81-3-3668-7776
- **Emergency phone** : +81-3-6264-8268
- **Note** : This SDS is written to address potential health and safety issues associated with the handling of the formulated product.

## 2. Hazards Identification

- **Classification** : Not classified
- **Pictogram** : Not applicable.
- **Signal word** : Not applicable.
- **Hazard statements** : Not applicable.
- **Precautionary statements** : Not applicable.

## 3. Composition / Information on Ingredients

<u>Ingredient</u>	<u>CAS No.</u>	<u>EINECS/ELINCS No.</u>	<u>%Composition</u>	<u>GHS Classification</u>
polystyrene	9003-53-6	500-008-9	-	-
Anti-PTX3 antibody	-	-	<0.01%	-

- **Note** : The ingredients contained in 1% or more are listed in principle.

## 4. First Aid Measures

It is considered that there is no suction from the shape, but debris is generated, take the following measures.

- **If inhaled** : If breathed in, move person into fresh air. If not breathing, give artificial respiration.
- **In case of skin contact** : Wash off with soap and plenty of water. Generally, the product does not irritate the skin.
- **In case of eye contact** : Flush eyes with water as a precaution. Then consult a doctor.
- **If swallowed** : Never give anything by mouth to an unconscious person. Rinse mouth with water. Immediately seek medical attention and appropriate follow-up.

## 5. Firefighting Measures

- **Suitable extinguishing media** : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- **Special hazards arising from the substance or mixture** : In the event of a fire, be aware that black smoke and harmful volatile components such as carbon monoxide and styrene monomer will be generated due to thermal decomposition and incomplete combustion.

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- **Advice for firefighters** : Wear self-contained breathing apparatus for firefighting if necessary.

## 6. Accidental Release Measures

- **Person-related safety precautions** : Use standard laboratory practices including proper personal protective equipment.
- **Measures for environmental protection** : Not available.
- **Measures for containment and cleaning up** : Collect with a broom and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

## 7. Handling and Storage

- **Precautions for safe handling** : Store in a well ventilated place.
- **Information about protection against explosions and fires** : Normal measures for preventive fire protection.
- **Conditions for safe storage, including any incompatibilities** : Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

## 8. Exposure controls and Personal Protection

- **Control parameters** : Not available.
- **Appropriate engineering controls** : Follow usual standard laboratory practices. The following personal protection is recommended:
  - Respiratory Protection** : Respiratory Protection not required. For nuisance exposures use respirators and components approved under appropriate government standards.
  - Hand Protection** : Handle with gloves. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.
  - Eye Protection** : Use equipment for eye protection tested and approved under appropriate government standards.
  - Skin and Body Protection** : Use impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
  - Hygiene Measures** : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

## 9. Physical and Chemical Properties

Appearance	Solid
Color	Clear
Odor	Little to none
Odor threshold	Not available.
pH	Not available.
Melting point/Freezing point	Not available.
Boiling point/Boiling range	Not available.
Evaporation rate	345~360°C.
Flash point	427°C
Upper/lower flammability or explosive limits	Not available.
Vapor pressure	Not available.

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Vapor density	Not available.
Relative density	1.050
Water solubility	Insoluble.
Partition coefficient :n-octanol/water	Not available.
Auto-ignition temperature	Product is not self-igniting
Decomposition temperature	Not available.
Viscosity	Not available.
Flammability	Not available.
Explosive properties	Not available.
Oxidizing properties	Not available.

## **10. Stability and Reactivity**

- **Reactivity** : Stable under normal ambient.
- **Chemical Stability** : Stable under normal ambient.
- **Incompatible materials to be avoided** : Excessive heating may decompose and generate harmful gas.
- **Incompatible materials** : Not available.
- **Hazardous decomposition products** : Not available.

## **11. Toxicological Information**

- **Acute toxicity** : Not available.
- **Skin corrosion / irritation** : Not available.
- **Serious eye damage / irritation** : Not available.
- **Respiratory or skin sensitization** : Not available.
- **Germ cell mutagenicity** : Not available.
- **Carcinogenicity** : Not available.
- **Reproductive toxicity** : Not available.
- **Specific Target Organ Toxicity - single exposure** : Not available.
- **Specific Target Organ Toxicity - repeated exposure** : Not available.
- **Aspiration hazard** : Not available.
- **Information on likely routes of exposure** : Routes of entry anticipated: oral, dermal, inhalation.
- **Symptoms related to the physical, chemical and toxicological characteristics** :
  - Inhalation** : Not available.
  - Ingestion** : Not available.
  - Skin contact** : Not available.
- **Eye contact** : May cause eye burns.
- **Delayed and immediate effects and also chronic effects from short and long term exposure** :
  - Short term exposure / Potential immediate effects** : Not available.
  - Potential delayed effects** : Not available.

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**Long term (chronic) exposure / Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

• **Numerical measures of toxicity** : Not available.

## **12. Ecological Information**

• **Ecotoxicity** : Not available.

• **Persistence and degradability** : Not available.

• **Bioaccumulative potential** : Not available.

• **Mobility in soil** : Not available.

• **Other adverse effects** : Not available.

## **13. Disposal Considerations**

• **Disposal methods** : Dispose of waste in accordance to applicable national, regional, or local laws and regulations. Contact a licensed professional waste disposal service for appropriate methods of disposal.

• **Contaminated packaging** : Dispose in the same manner as unused product.

## **14. Transportation Information**

• **ADR/RID AND/ADNR IMDG IATA/DOT** : Not applicable.

• **UN Number** : Not applicable.

• **DOT regulations** : Not applicable.

• **Hazard class** : Not applicable.

• **Land transport ADR/RID (cross-border)** : Not applicable.

• **Maritime transport IMDG** : Not applicable.

• **Marine pollutant** : Not applicable.

• **Air transport ICAO-TI and IATA-DGR** : Not applicable.

• **Transport/Additional information** : Not applicable.

## **15. Regulatory Information**

• **US Federal and State Regulations**

**TSCA (Toxic Substances Control Act)** : Benzene, ethenyl-, homopolymer

**SARA 313** : Not applicable.

**SARA 311/312 Hazards** : Not applicable.

**CERCLA Reportable Quantity** : Not applicable.

**California Proposition 65** : Not applicable.

• **European Union**

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

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## **16. Other Information**

• **Notice to reader** : To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution.

Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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## 1. Identification of Substance / Mixture and of the Company / Undertaking

- **Other means of identification / Components name** : HRP conjugated Anti-human PTX3 antibody reagent
- **Application of the substance / the preparation** : For research use only.
- **Company** : Perseus Proteomics Inc.
  - Address** : 30-1 Nihonbashi-hakozakicho, Chuo-ku, Tokyo, 103-0015, Japan
  - Telephone** : +81-3-6264-8268
  - Fax** : +81-3-3668-7776
- **Emergency phone** : +81-3-6264-8268
- **Note** : This SDS is written to address potential health and safety issues associated with the handling of the formulated product.

## 2. Hazards Identification

- **Classification** : Not classified
- **Pictogram** : Not applicable.
- **Signal word** : Not applicable.
- **Hazard statements** : Not applicable.
- **Precautionary statements** : Not applicable.

## 3. Composition / Information on Ingredients

<u>Ingredient</u>	<u>CAS No.</u>	<u>EINECS/ELINCS No.</u>	<u>%Composition</u>	<u>GHS Classification</u>
HRP-Anti-PTX3 antibody	-	-	≦0.01%	-
Microcide III	26172-55-4	247-500-7	≦0.2%	-
Caseins	9000-71-9	232-555-1	≦0.1%	-

- **Note** : The ingredients contained in 1% or more are listed in principle.

## 4. First Aid Measures

- **If inhaled** : If breathed in, move person into fresh air. If not breathing, give artificial respiration.
- **In case of skin contact** : Wash off with soap and plenty of water. Generally, the product does not irritate the skin.
- **In case of eye contact** : Flush eyes with water as a precaution. Then consult a doctor.
- **If swallowed** : Never give anything by mouth to an unconscious person. Rinse mouth with water. Immediately seek medical attention and appropriate follow-up.

## 5. Firefighting Measures

- **Suitable extinguishing media** : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- **Special hazards arising from the substance or mixture** : Nature of decomposition products not known.
- **Advice for firefighters** : Wear self-contained breathing apparatus for firefighting if necessary.

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## 6. Accidental Release Measures

- **Person-related safety precautions** : Use standard laboratory practices including proper personal protective equipment.
- **Measures for environmental protection** : Not available.
- **Measures for containment and cleaning up** : Absorb liquid components with inert liquid-binding material. Pick up mechanically. Dispose contaminated material as waste according to section 13.

## 7. Handling and Storage

- **Precautions for safe handling** : Store in a well ventilated place. Keep container tightly closed.
- **Information about protection against explosions and fires** : Normal measures for preventive fire protection.
- **Conditions for safe storage, including any incompatibilities** : Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

## 8. Exposure controls and Personal Protection

- **Control parameters** : Not available.
- **Appropriate engineering controls** : Follow usual standard laboratory practices. The following personal protection is recommended:
  - Respiratory Protection** : Respiratory Protection not required. For nuisance exposures use respirators and components approved under appropriate government standards.
  - Hand Protection** : Handle with gloves. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.
  - Eye Protection** : Use equipment for eye protection tested and approved under appropriate government standards.
  - Skin and Body Protection** : Use impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
  - Hygiene Measures** : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

## 9. Physical and Chemical Properties

Appearance	Aqueous solution
Color	Yellow-Orange
Odor	Little to none
Odor threshold	Not available.
pH	Not available.
Melting point/Freezing point	Not available.
Boiling point/Boiling range	Not available.
Evaporation rate	Not available.
Flash point	Not available.
Upper/lower flammability or explosive limits	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.

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Water solubility	Soluble
Partition coefficient :n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Flammability	Not available.
Explosive properties	Not available.
Oxidizing properties	Not available.

## **10. Stability and Reactivity**

- **Reactivity** : No available.
- **Chemical Stability** : No available.
- **Incompatible materials to be avoided** : Heat and frozen.
- **Incompatible materials** : Metals and metallic compounds, and strong acids/alkalis, strong oxidizing/reducing agents.
- **Hazardous decomposition products** : No available.

## **11. Toxicological Information**

- **Acute toxicity** : Not available.
- **Skin corrosion / irritation** : Not available.
- **Serious eye damage / irritation** : Not available.
- **Respiratory or skin sensitization** : Not available.
- **Germ cell mutagenicity** : Not available.
- **Carcinogenicity** : Not available.
- **Reproductive toxicity** : Not available.
- **Specific Target Organ Toxicity - single exposure** : Not available.
- **Specific Target Organ Toxicity - repeated exposure** : Not available.
- **Aspiration hazard** : Not available.
- **Information on likely routes of exposure** : Routes of entry anticipated: oral, dermal, inhalation.
- **Symptoms related to the physical, chemical and toxicological characteristics** :
  - Inhalation** : Not available.
  - Ingestion** : Not available.
  - Skin contact** : Not available.
- **Eye contact** : May cause eye burns.
- **Delayed and immediate effects and also chronic effects from short and long term exposure** :
  - Short term exposure / Potential immediate effects** : Not available.
  - Potential delayed effects** : Not available.
  - Long term (chronic) exposure / Potential immediate effects** : Not available.
  - Potential delayed effects** : Not available.



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- **Numerical measures of toxicity** : Not available.

## **12. Ecological Information**

- **Ecotoxicity** : Not available.
- **Persistence and degradability** : Not available.
- **Bioaccumulative potential** : Not available.
- **Mobility in soil** : Not available.
- **Other adverse effects** : Not available.

## **13. Disposal Considerations**

- **Disposal methods** : Dispose of waste in accordance to applicable national, regional, or local laws and regulations. Do not dump into any body of water. Contact a licensed professional waste disposal service for appropriate methods of disposal.
- **Contaminated packaging** : Dispose in the same manner as unused product.
- **Special precautions** : Dispose of small amounts of spilled material as described in section 6. Large spills must be dealt with separately by qualified disposal personnel. Avoid dispersal of spilt material to soil, waterways, drains and sewers.

## **14. Transportation Information**

- **ADR/RID AND/ADNR IMDG IATA/DOT** : Not applicable.
- **UN Number** : Not applicable.
- **DOT regulations** : Not applicable.
- **Hazard class** : Not applicable.
- **Land transport ADR/RID (cross-border)** : Not applicable.
- **Maritime transport IMDG** : Not applicable.
- **Marine pollutant** : Not applicable.
- **Air transport ICAO-TI and IATA-DGR** : Not applicable.
- **Transport/Additional information** : Not applicable.

## **15. Regulatory Information**

### • **US Federal and State Regulations**

**TSCA (Toxic Substances Control Act)** : Caseins, 3(2H)-Isothiazolone, 5-chloro-2-methyl-

**SARA 313** : Not applicable.

**SARA 311/312 Hazards** : Not applicable.

**CERCLA Reportable Quantity** : Not applicable.

**California Proposition 65** : Not applicable.

### • **European Union**

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

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## **16. Other Information**

• **Notice to reader** : To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution.

Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

**Product name :** Human Pentraxin3 / TSG-14 ELISA System (Code No. PP-PD03-E0) 3/7

Reference Number : PT150001

Issuing Date : 5 Augst 2021

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## 1. Identification of Substance / Mixture and of the Company / Undertaking

- **Other means of identification / Components name :** Human PTX3 standards
- **Application of the substance / the preparation :** For research use only.
- **Company :** Perseus Proteomics Inc.  
**Address :** 30-1 Nihonbashi-hakozakicho, Chuo-ku, Tokyo, 103-0015, Japan  
**Telephone :** +81-3-6264-8268  
**Fax :** +81-3-3668-7776
- **Emergency phone :** +81-3-6264-8268
- **Note :** This SDS is written to address potential health and safety issues associated with the handling of the formulated product.

## 2. Hazards Identification

- **Classification :** Not classified
- **Pictogram :** Not applicable.
- **Signal word :** Not applicable.
- **Hazard statements :** Not applicable.
- **Precautionary statements :** Not applicable.
- **Other hazards :** Mixture - contains sodium azide. The most common adverse effects reported with exposure to sodium azide include dizziness, headache, nausea and vomiting, rapid breathing and heart rate, restlessness, weakness, runny nose, cough, and red eyes. Overexposure to sodium azide may cause convulsions, low blood pressure, loss of consciousness, lung injury, reduced heart rate, and potentially fatal respiratory failure. Inhalation of sodium azide may cause respiratory irritation.
- **Note :** This mixture is not classified as hazardous according to Regulation EC No 1272/ 2008 (EU CLP) and Hazard Communication Standard No. 1910.1200 (US OSHA). The pharmacological, toxicological and ecological properties of this mixture have not been fully characterized.

## 3. Composition / Information on Ingredients

<u>Ingredient</u>	<u>CAS No.</u>	<u>EINECS/ELINCS No.</u>	<u>%Composition</u>	<u>GHS Classification</u>
Sodium azide	26628-22-8	247-852-1	≤0.1%	ATO2:H300; AA1:H400; CA1:H410; EUH032
Human PTX3	-	-	≤0.0001%	-

- **Note :** The ingredient(s) listed above are considered hazardous. The remaining components are non-hazardous and/or present at amounts below reportable limits. See Section 16 for full text of GHS classifications.  
The ingredients contained in 1% or more are listed in principle.

## 4. First Aid Measures

- **If inhaled :** If breathed in, move person into fresh air. If not breathing, give artificial respiration.
- **In case of skin contact :** Wash off with soap and plenty of water. Generally, the product does not irritate the skin.
- **In case of eye contact :** Flush eyes with water as a precaution. Then consult a doctor.
- **If swallowed :** Never give anything by mouth to an unconscious person. Rinse mouth with water. Immediately seek medical attention and

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appropriate follow-up.

## 5. Firefighting Measures

- **Suitable extinguishing media** : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- **Special hazards arising from the substance or mixture** : Nature of decomposition products not known.
- **Advice for firefighters** : Wear self-contained breathing apparatus for firefighting if necessary.

## 6. Accidental Release Measures

- **Person-related safety precautions** : Use standard laboratory practices including proper personal protective equipment.
- **Measures for environmental protection** : Not available.
- **Measures for containment and cleaning up** : Absorb liquid components with inert liquid-binding material. Pick up mechanically. Dispose contaminated material as waste according to section 13.

## 7. Handling and Storage

- **Precautions for safe handling** : Store in a well ventilated place. Keep container tightly closed.
- **Information about protection against explosions and fires** : Normal measures for preventive fire protection.
- **Conditions for safe storage, including any incompatibilities** : Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

## 8. Exposure controls and Personal Protection

- **Control parameters** : Not available.

- **Permissible Exposure Limits** :

<u>Component</u>	<u>Permissible Exposure Limits(s)</u>
Sodium Azide	ACGIH, TLV: 0.29 mg/m <sup>3</sup> , ceiling,

- **Appropriate engineering controls** : Follow usual standard laboratory practices. The following personal protection is recommended:

**Respiratory Protection**: Respiratory Protection not required. For nuisance exposures use respirators and components approved under appropriate government standards.

**Hand Protection** : Handle with gloves. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

**Eye Protection** : Use equipment for eye protection tested and approved under appropriate government standards.

**Skin and Body Protection** : Use impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Hygiene Measures** : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

## 9. Physical and Chemical Properties

Appearance	Aqueous solution
Color	Clear
Odor	Little to none
Odor threshold	Not available.

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pH	Not available.
Melting point/Freezing point	Not available.
Boiling point/Boiling range	Not available.
Evaporation rate	Not available.
Flash point	Not available.
Upper/lower flammability or explosive limits	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Water solubility	Not available.
Partition coefficient :n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Flammability	Not available.
Explosive properties	Not available.
Oxidizing properties	Not available.

## **10. Stability and Reactivity**

- **Reactivity** : Sodium azide may react with lead or copper plumbing to form highly explosive metal azide.
- **Chemical Stability** : Stable under normal ambient and storage and handling temperatures.
- **Incompatible materials to be avoided** : Heat.
- **Incompatible materials** : Metals and metallic compounds, and strong acids/alkalis, strong oxidizing/reducing agents.
- **Hazardous decomposition products** : May form carbon dioxide and carbon monoxide, metal oxides.

## **11. Toxicological Information**

- **Acute toxicity** : Not available.
- **Skin corrosion / irritation** : Not available.
- **Serious eye damage / irritation** : Not available.
- **Respiratory or skin sensitization** : Not available.
- **Germ cell mutagenicity** : Not available.
- **Carcinogenicity** : Not available.
- **Reproductive toxicity** : Not available.
- **Specific Target Organ Toxicity - single exposure** : Not available.
- **Specific Target Organ Toxicity - repeated exposure** : Not available.
- **Aspiration hazard** : Not available.
- **Information on likely routes of exposure** : Routes of entry anticipated; oral, dermal, inhalation.
- **Symptoms related to the physical, chemical and toxicological characteristics** :

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**Inhalation** : Not available.

**Ingestion** : Not available.

**Skin contact** : Not available.

• **Eye contact** : May cause eye burns.

• **Delayed and immediate effects and also chronic effects from short and long term exposure** :

**Short term exposure / Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

**Long term (chronic) exposure / Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

• **Numerical measures of toxicity** : Not available.

• **Other Information** : See Section 2- "Other hazards".

## **12. Ecological Information**

• **Ecotoxicity** : Not available.

• **Persistence and degradability** : Not available.

• **Bioaccumulative potential** : Not available.

• **Mobility in soil** : Not available.

• **Other adverse effects** : Not available.

• **Note** : May be harmful to the environment, particularly aquatic organisms. Although present at low concentrations, disposal should consider that sodium azide is present. Releases to the environment should be avoided.

## **13. Disposal Considerations**

• **Disposal methods** : Dispose of waste in accordance to applicable national, regional, or local laws and regulations. Do not dump into any body of water. Contact a licensed professional waste disposal service for appropriate methods of disposal.

• **Contaminated packaging** : Dispose in the same manner as unused product.

• **Special precautions** : Dispose of small amounts of spilled material as described in section 6. Large spills must be dealt with separately by qualified disposal personnel. Avoid dispersal of spilt material to soil, waterways, drains and sewers.

## **14. Transportation Information**

• **ADR/RID AND/ADNR IMDG IATA/DOT** : Not applicable.

• **UN Number** : Not applicable.

• **DOT regulations** : Not applicable.

• **Hazard class** : Not applicable.

• **Land transport ADR/RID (cross-border)** : Not applicable.

• **Maritime transport IMDG** : Not applicable.

• **Marine pollutant** : Not applicable.

• **Air transport ICAO-TI and IATA-DGR** : Not applicable.

• **Transport/Additional information** : Not applicable.

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## **15. Regulatory Information**

### • US Federal and State Regulations

**TSCA (Toxic Substances Control Act)** : Sodium azide (Na(N<sub>3</sub>))

**SARA 313** : Sodium azide: CAS No.26628-22-8, concentration <0.1%

**SARA 311/312 Hazards** : Sodium azide:Acute health hazard

**CERCLA Reportable Quantity** : Not applicable.

**California Proposition 65** : Not applicable.

### • European Union

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

## **16. Other Information**

• **NFPA Ratings** : Sodium azide      **Health:** 3      **Fire:** 0      **Reactivity:** 2

• **Full text of H phrases and GHS classifications** : ATO2 – Acute Toxicity (Oral) Category 2. H300 – Fatal if swallowed. AA1 – Acute aquatic toxicity Category 1. H400 – Very toxic to aquatic life. CA1 – Aquatic toxicity (chronic) – Category 1.  
EUH032 - Contact with acids liberates very toxic gas.

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Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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## 1. Identification of Substance / Mixture and of the Company/Undertaking

- **Other means of identification / Components name** : 10X Wash buffer concentrate
- **Application of the substance / the preparation** : For research use only.
- **Company** : Perseus Proteomics Inc.
  - Address** : 30-1 Nihonbashi-hakozakicho, Chuo-ku, Tokyo, 103-0015, Japan
  - Telephone** : +81-3-6264-8268
  - Fax** : +81-3-3668-7776
- **Emergency phone** : +81-3-6264-8268
- **Note** : This SDS is written to address potential health and safety issues associated with the handling of the formulated product.

## 2. Hazards Identification

- **Classification** : Not classified
- **Pictogram** : Not applicable.
- **Signal word** : Not applicable.
- **Hazard statements** : Not applicable.
- **Precautionary statements** : Not applicable.

## 3. Composition / Information on Ingredients

<u>Ingredient</u>	<u>CAS No.</u>	<u>EINECS/ELINCS No.</u>	<u>%Composition</u>	<u>GHS Classification</u>
Sodium chloride	7647-14-5	231-598-3	≤ 10%	-
Disodium hydrogen phosphate dodecahydrate	10039-32-4	-	≤ 3%	-
Potassium dihydrogenphosphate	7778-77-0	231-913-4	≤ 0.3%	-

- **Note** : The ingredients contained in 1% or more are listed in principle.

## 4. First Aid Measures

- **If inhaled** : If breathed in, move person into fresh air. If not breathing, give artificial respiration.
- **In case of skin contact** : Wash off with soap and plenty of water. Generally, the product does not irritate the skin.
- **In case of eye contact** : Flush eyes with water as a precaution. Then consult a doctor.
- **If swallowed** : Never give anything by mouth to an unconscious person. Rinse mouth with water. Immediately seek medical attention and appropriate follow-up.

## 5. Firefighting Measures

- **Suitable extinguishing media** : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- **Special hazards arising from the substance or mixture** : Nature of decomposition products not known.
- **Advice for firefighters** : Wear self-contained breathing apparatus for firefighting if necessary.



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## 6. Accidental Release Measures

- **Person-related safety precautions** : Use standard laboratory practices including proper personal protective equipment.
- **Measures for environmental protection** : Not available.
- **Measures for containment and cleaning up** : Absorb liquid components with inert liquid-binding material. Pick up mechanically. Dispose contaminated material as waste according to section 13.

## 7. Handling and Storage

- **Precautions for safe handling** : Store in a well ventilated place. Keep container tightly closed.
- **Information about protection against explosions and fires** : Normal measures for preventive fire protection.
- **Conditions for safe storage, including any incompatibilities** : Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

## 8. Exposure controls and Personal Protection

- **Control parameters** : Not available.
- **Appropriate engineering controls** : Follow usual standard laboratory practices. The following personal protection is recommended:
  - Respiratory Protection** : Respiratory Protection not required. For nuisance exposures use respirators and components approved under appropriate government standards.
  - Hand Protection** : Handle with gloves. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.
  - Eye Protection** : Use equipment for eye protection tested and approved under appropriate government standards.
  - Skin and Body Protection** : Use impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
  - Hygiene Measures** : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

## 9. Physical and Chemical Properties

Appearance	Aqueous solution
Color	Clear
Odor	Little to none
Odor threshold	Not available.
pH	Not available.
Melting point/Freezing point	Not available.
Boiling point/Boiling range	Not available.
Evaporation rate	Not available.
Flash point	Not available.
Upper/lower flammability or explosive limits	Not available.
Vapor pressure	Not available.
Vapor density	Not available.

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Relative density	Not available.
Water solubility	Not available.
Partition coefficient :n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Flammability	Not available.
Explosive properties	Not available.
Oxidizing properties	Not available.

## **10. Stability and Reactivity**

- **Reactivity** : Not available.
- **Chemical Stability** : Stable under normal ambient and storage and handling temperatures.
- **Incompatible materials to be avoided** : Heat and frozen.
- **Incompatible materials** : Not available.
- **Hazardous decomposition products** : Not available.

## **11. Toxicological Information**

- **Acute toxicity** : Not available.
- **Skin corrosion / irritation** : Not available.
- **Serious eye damage / irritation** : Not available.
- **Respiratory or skin sensitization** : Not available.
- **Germ cell mutagenicity** : Not available.
- **Carcinogenicity** : Not available.
- **Reproductive toxicity** : Not available.
- **Specific Target Organ Toxicity - single exposure** : Not available.
- **Specific Target Organ Toxicity - repeated exposure** : Not available.
- **Aspiration hazard** : Not available.
- **Information on likely routes of exposure** : Routes of entry anticipated: oral, dermal, inhalation.
- **Symptoms related to the physical, chemical and toxicological characteristics** :
  - Inhalation** : Not available.
  - Ingestion** : Not available.
  - Skin contact** : Not available.
- **Eye contact** : May cause eye burns.
- **Delayed and immediate effects and also chronic effects from short and long term exposure** :
  - Short term exposure / Potential immediate effects** : Not available.
  - Potential delayed effects** : Not available.
  - Long term (chronic) exposure / Potential immediate effects** : Not available.

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Potential delayed effects : Not available.

• Numerical measures of toxicity : Not available.

## 12. Ecological Information

• Ecotoxicity : Not available.

• Persistence and degradability : Not available.

• Bioaccumulative potential : Not available.

• Mobility in soil : Not available.

• Other adverse effects : Not available.

## 13. Disposal Considerations

• **Disposal methods** : Dispose of waste in accordance to applicable national, regional, or local laws and regulations. Do not dump into any body of water. Contact a licensed professional waste disposal service for appropriate methods of disposal.

• **Contaminated packaging** : Dispose in the same manner as unused product.

• **Special precautions** : Dispose of small amounts of spilled material as described in section 6. Large spills must be dealt with separately by qualified disposal personnel. Avoid dispersal of spilt material to soil, waterways, drains and sewers.

## 14. Transportation Information

• **ADR/RID AND/ADNR IMDG IATA/DOT** : Not applicable.

• **UN Number** : Not applicable.

• **DOT regulations** : Not applicable.

• **Hazard class** : Not applicable.

• **Land transport ADR/RID (cross-border)** : Not applicable.

• **Maritime transport IMDG** : Not applicable.

• **Marine pollutant** : Not applicable.

• **Air transport ICAO-TI and IATA-DGR** : Not applicable.

• **Transport/Additional information** : Not applicable.

## 15. Regulatory Information

• **US Federal and State Regulations**

**TSCA (Toxic Substances Control Act)** : Sodium chloride (NaCl), Phosphoric acid, potassium salt (1:1)

**SARA 313** : Not applicable.

**SARA 311/312 Hazards** : Not applicable.

**CERCLA Reportable Quantity** : Not applicable.

**California Proposition 65** : Not applicable.

• **European Union**

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

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**Product name** : Human Pentraxin3 / TSG-14 ELISA System (Code No. PP-PD03-E0) 4/7

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## **16. Other Information**

• **Notice to reader** : To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution.

Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

**Product name** : Human Pentraxin3 / TSG-14 ELISA System (Code No. PP-PD03-E0) 5/7

Reference Number : PT150001

Issuing Date : 5 Augst 2021

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## 1. Identification of Substance / Mixture and of the Company / Undertaking

- **Other means of identification / Components name** : Dilution buffer
- **Application of the substance / the preparation** : For research use only.
- **Company** : Perseus Proteomics Inc.  
**Address** : 30-1 Nihonbashi-hakozakicho, Chuo-ku, Tokyo, 103-0015, Japan  
**Telephone** : +81-3-6264-8268  
**Fax** : +81-3-3668-7776
- **Emergency phone** : +81-3-6264-8268
- **Note** : This SDS is written to address potential health and safety issues associated with the handling of the formulated product.

## 2. Hazards Identification

- **Classification** : Not classified
- **Pictogram** : Not applicable.
- **Signal word** : Not applicable.
- **Hazard statements** : Not applicable.
- **Precautionary statements** : Not applicable.

## 3. Composition / Information on Ingredients

<u>Ingredient</u>	<u>CAS No.</u>	<u>EINECS/ELINCS No.</u>	<u>%Composition</u>	<u>GHS Classification</u>
Sodium chloride	7647-14-5	231-598-3	≤ 1.0%	-
Disodium hydrogen phosphate dodecahydrate	10039-32-4	-	≤ 0.3%	-
Sodium dihydrogen phosphate dihydrate	13472-35-0	-	≤ 0.03%	-
Caseins	9000-71-9	232-555-1	≤ 0.1%	-

- **Note** : The ingredients contained in 1% or more are listed in principle.

## 4. First Aid Measures

- **If inhaled** : If breathed in, move person into fresh air. If not breathing, give artificial respiration.
- **In case of skin contact** : Wash off with soap and plenty of water. Generally, the product does not irritate the skin.
- **In case of eye contact** : Flush eyes with water as a precaution. Then consult a doctor.
- **If swallowed** : Never give anything by mouth to an unconscious person. Rinse mouth with water. Immediately seek medical attention and appropriate follow-up.

## 5. Firefighting Measures

- **Suitable extinguishing media** : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- **Special hazards arising from the substance or mixture** : Nature of decomposition products not known.

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- **Advice for firefighters** : Wear self-contained breathing apparatus for firefighting if necessary.

## 6. Accidental Release Measures

- **Person-related safety precautions** : Use standard laboratory practices including proper personal protective equipment.
- **Measures for environmental protection** : Not available.
- **Measures for containment and cleaning up** : Absorb liquid components with inert liquid-binding material. Pick up mechanically. Dispose contaminated material as waste according to section 13.

## 7. Handling and Storage

- **Precautions for safe handling** : Store in a well ventilated place. Keep container tightly closed.
- **Information about protection against explosions and fires** : Normal measures for preventive fire protection.
- **Conditions for safe storage, including any incompatibilities** : Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

## 8. Exposure controls and Personal Protection

- **Control parameters** : Not available.
- **Appropriate engineering controls** : Follow usual standard laboratory practices. The following personal protection is recommended:
  - Respiratory Protection**: Respiratory Protection not required. For nuisance exposures use respirators and components approved under appropriate government standards.
  - Hand Protection** : Handle with gloves. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.
  - Eye Protection** : Use equipment for eye protection tested and approved under appropriate government standards.
  - Skin and Body Protection** : Use impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
  - Hygiene Measures** : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

## 9. Physical and Chemical Properties

Appearance	Aqueous solution
Color	Clear
Odor	Little to none
Odor threshold	Not available.
pH	Not available.
Melting point/Freezing point	Not available.
Boiling point/Boiling range	Not available.
Evaporation rate	Not available.
Flash point	Not available.
Upper/lower flammability or explosive limits	Not available.
Vapor pressure	Not available.

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Vapor density	Not available.
Relative density	Not available.
Water solubility	Soluble.
Partition coefficient :n-octanol/water	Not available.
Auto-ignition temperature	Product is not self-igniting
Decomposition temperature	Not available.
Viscosity	Not available.
Flammability	Not available.
Explosive properties	Not available.
Oxidizing properties	Not available.

## **10. Stability and Reactivity**

- **Reactivity** : Not available.
- **Chemical Stability** : Stable under normal ambient and storage and handling temperatures.
- **Incompatible materials to be avoided** : Heat and frozen.
- **Incompatible materials** : Not available.
- **Hazardous decomposition products** : Not available.

## **11. Toxicological Information**

- **Acute toxicity** : Not available.
- **Skin corrosion / irritation** : Not available.
- **Serious eye damage / irritation** : Not available.
- **Respiratory or skin sensitization** : Not available.
- **Germ cell mutagenicity** : Not available.
- **Carcinogenicity** : Not available.
- **Reproductive toxicity** : Not available.
- **Specific Target Organ Toxicity - single exposure** : Not available.
- **Specific Target Organ Toxicity - repeated exposure** : Not available.
- **Aspiration hazard** : Not available.
- **Information on likely routes of exposure** : Routes of entry anticipated: oral, dermal, inhalation.
- **Symptoms related to the physical, chemical and toxicological characteristics** :
  - Inhalation** : Not available.
  - Ingestion** : Not available.
  - Skin contact** : Not available.
- **Eye contact** : May cause eye burns.
- **Delayed and immediate effects and also chronic effects from short and long term exposure** :
  - Short term exposure / Potential immediate effects** : Not available.
  - Potential delayed effects** : Not available.

**Product name** : Human Pentraxin3 / TSG-14 ELISA System (Code No. PP-PD03-E0) 5/7

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**Long term (chronic) exposure / Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

• **Numerical measures of toxicity** : Not available.

## **12. Ecological Information**

• **Ecotoxicity** : Not available.

• **Persistence and degradability** : Not available.

• **Bioaccumulative potential** : Not available.

• **Mobility in soil** : Not available.

• **Other adverse effects** : Not available.

## **13. Disposal Considerations**

• **Disposal methods** : Dispose of waste in accordance to applicable national, regional, or local laws and regulations. Do not dump into any body of water. Contact a licensed professional waste disposal service for appropriate methods of disposal.

• **Contaminated packaging** : Dispose in the same manner as unused product.

• **Special precautions** : Dispose of small amounts of spilled material as described in section 6. Large spills must be dealt with separately by qualified disposal personnel. Avoid dispersal of spilt material to soil, waterways, drains and sewers.

## **14. Transportation Information**

• **ADR/RID AND/ADNR IMDG IATA/DOT** : Not applicable.

• **UN Number** : Not applicable.

• **DOT regulations** : Not applicable.

• **Hazard class** : Not applicable.

• **Land transport ADR/RID (cross-border)** : Not applicable.

• **Maritime transport IMDG** : Not applicable.

• **Marine pollutant** : Not applicable.

• **Air transport ICAO-TI and IATA-DGR** : Not applicable.

• **Transport/Additional information** : Not applicable.

## **15. Regulatory Information**

• **US Federal and State Regulations**

**TSCA (Toxic Substances Control Act)** : Sodium chloride (NaCl)

**SARA 313** : Not applicable.

**SARA 311/312 Hazards** : Not applicable.

**CERCLA Reportable Quantity** : Not applicable.

**California Proposition 65** : Not applicable.

• **European Union**

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.



# Safety Data Sheet

**Product name** : Human Pentraxin3 / TSG-14 ELISA System (Code No. PP-PD03-E0) 5/7

Reference Number : PT150001

Issuing Date : 5 Augst 2021

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## **16. Other Information**

• **Notice to reader** : To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution.

Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

**Product name** : Human Pentraxin3 / TSG-14 ELISA System (Code No. PP-PD03-E0) 6/7

Reference Number : PT150001

Issuing Date : 5 Augst 2021

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## 1. Identification of Substance / Mixture and of the Company / Undertaking

- **Other means of identification / Components name** : TMB solution
- **Application of the substance / the preparation** : For research use only.
- **Company** : Perseus Proteomics Inc.
  - Address** : 30-1 Nihonbashi-hakozakicho, Chuo-ku, Tokyo, 103-0015, Japan
  - Telephone** : +81-3-6264-8268
  - Fax** : +81-3-3668-7776
- **Emergency phone** : +81-3-6264-8268
- **Note** : This SDS is written to address potential health and safety issues associated with the handling of the formulated product.

## 2. Hazards Identification

- **Classification** : Flammable liquids (Category 3) – H226
  - Acute toxicity, Oral (Category 4) – H302
  - Acute toxicity, Inhalation (Category 4) – H332
  - Acute toxicity, Dermal (Category 4) – H312
  - Specific target organ toxicity - single exposure (Category 1) – H370
- **Pictogram** :



- **Signal word** : Danger.
- **Hazard statements** : H302 + H312 + H332 – Harmful if swallowed, in contact with skin or if inhaled  
H370 – Causes damage to organs
- **Precautionary statements** : P202 – Do not handle until all safety precautions [on SDS] have been read and understood.
  - P302 + P350 – IF ON SKIN: Gently wash with plenty of soap and water
  - P305 + P351+P315 – IF IN EYES: Rinse cautiously with water for several minutes. Get immediate medical advice/attention
  - P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
  - P210 – Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
  - P260 – Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
- **NFPA Scale: 0-4** : Health: 2 Fire: 1 Reactivity: 0
- **HIMIS(U.S.A) Scale: 0-4** : Health: 2 Flammability: 1 Physical Hazard: 0 Personal Protection: G
- **Other hazards** : PBT: This mixture does not contain any substances that are assessed to be a PBT.  
vPvB: This mixture does not contain any substances that are assessed to be a vPvB.

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### 3. Composition / Information on Ingredients

<u>Ingredient</u>	<u>CAS No.</u>	<u>EINECS/ELINCS No.</u>	<u>%Composition</u>	<u>GHS Classification</u>
Methanol	67-56-1	200-659-6	≤30%	Danger. 3 H225, 3 H301, 3 H311, 1 H370
Dimethylsulfoxide	67-68-5	200-664-3	≤10%	Warning. 2 H315, 3 H226
Acetone	67-64-41	200-662-2	≤10%	Danger. 2 H225, Warning. 2 H319, STOT 3 H336
3-3'-5-5'- Tetramethylbenzidine	64285-73-0	264-769-6	≤0.1%	Warning. 2 H315, 2 H319, 3 H335
Hydrogen Peroxide	7722-84-1	231-765-0	≤0.1%	Danger. 1. H271, B.H314, Warning. 4 H302, H333, H402

### 4. First Aid Measures

- **If inhaled** : If inhaled, remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.  
Get medical attention if symptoms worsen.
- **In case of skin contact** : Remove contaminated clothing and wash contact area with mild soap and copious amounts of water. Get medical attention if irritation develops.
- **In case of eye contact** : Check for and remove contact lenses. Immediately flush eyes with copious amounts of water and get immediate Medical attention.
- **If swallowed** : Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.  
Loosen tight clothing such as collar, tie, belt or waistband. Get immediate medical attention.

### 5. Firefighting Measures

- **Suitable extinguishing media** : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- **Special hazards arising from the substance or mixture** : May produce flammable vapors when heated during fire conditions.
- **Advice for firefighters** : Wear self-contained breathing apparatus for firefighting if necessary.

### 6. Accidental Release Measures

- **Person-related safety precautions** : Wear chemical resistant clothing, gloves, and eye protection. Wear NIOSH/MSHA approved breathing apparatus.
- **Measures for environmental protection** : Keep material away from heat, flame, ignition sources, and reactive materials. Don't allow product to enter drain.
- **Measures for containment and cleaning up** : Absorb liquid components with inert liquid-binding material. Pick up mechanically. Dispose contaminated material as waste according to section 13.

### 7. Handling and Storage

- **Precautions for safe handling** : Avoid contact with skin and eyes. Wash thoroughly after handling. Avoid breathing vapor.
- **Information about protection against explosions and fires** : Use only if adequate ventilation is provided.
- **Conditions for safe storage, including any incompatibilities** : Store in well ventilated area. Keep container tightly closed. Store at 15-30°C.

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## 8. Exposure controls and Personal Protection

• Permissible Exposure Limits :	Component	Permissible Exposure Limits(s)
	Methanol	NIOSH REL : TWA 200 ppm (260 mg/m <sup>3</sup> ) ST 250 ppm (325 mg/m <sup>3</sup> ) [skin] OSHA PEL : TWA 200 ppm (260 mg/m <sup>3</sup> ) ACGIH TLV : TWA 200 ppm (262 mg/m <sup>3</sup> ) STEL 250 ppm (328 mg/m <sup>3</sup> )
	Acetone	NIOSH REL : TWA 250 ppm (590 mg/m <sup>3</sup> ) OSHA PEL : TWA 1,000 ppm (2,400 mg/m <sup>3</sup> ) ACGIH TLV : TWA 500 ppm (1,188 mg/m <sup>3</sup> ) STEL 750 ppm (1,782mg/m <sup>3</sup> )

• **Appropriate engineering controls** : Follow usual standard laboratory practices. The following personal protection is recommended:

**Respiratory Protection**: Avoid breathing vapor. Use respirators and components approved under appropriate government standards.

**Hand Protection** : Handle with gloves. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

**Eye Protection** : Use equipment for eye protection tested and approved under appropriate government standards.

**Skin and Body Protection** : Use impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Hygiene Measures** : Working area should be adequately large and well ventilated to prevent concentration of vapors. Provide mechanical exhaust ventilation or other engineering controls to keep airborne concentrations of vapors below their respective threshold limits.

## 9. Physical and Chemical Properties

Appearance	Liquid
Color	Translucent, clear to slightly yellow.
Odor	Mils alcohol odor.
Odor threshold	Not available.
pH	Not available.
Melting point/Freezing point	Not available.
Boiling point/Boiling range	Not available.
Evaporation rate	Not available.
Flash point	Not available.
Upper/lower flammability or explosive limits	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Water solubility	Soluble.
Partition coefficient :n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Flammability	Not available.

Product name : Human Pentraxin3 / TSG-14 ELISA System (Code No. PP-PD03-E0) 6/7

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Explosive properties

Not explosive.

Oxidizing properties

Not available.

## 10. Stability and Reactivity

- **Reactivity** : Not available.
- **Chemical Stability** : Stable under normal ambient and storage and handling temperatures.
- **Incompatible materials to be avoided** : Fire, static electricity, direct sunlight..
- **Incompatible materials** : Strong oxidizing agents such as sulfuric acid, nitrates, and perchlorates.
- **Hazardous decomposition products** : May form carbon dioxide and carbon monoxide, metal oxides, and formaldehyde under fire conditions.

## 11. Toxicological Information

- **Acute toxicity** : *Methanol*: Oral LD50 LDLO Oral - Human - 143 mg/kg and diarrhea. LD50 Oral - rat - 1,187 - 2,769 mg/kg  
Inhalation LC50 LC50 Inhalation - rat - 4 h - 128.2 mg/l, LC50 Inhalation - rat - 6 h - 87.6 mg/l  
Dermal LD50 LD50 Dermal - rabbit - 17,100 mg/kg

*Dimethylsulfoxide*: LD50 Oral - rat - 14,500 mg/kg  
LC50 Inhalation - rat - 4 h - 40250 ppm  
LD50 Dermal - rabbit - > 5,000 mg/kg

- **Skin corrosion / irritation** : May be irritating to skin and mucous membranes..
- **Serious eye damage / irritation** : May be irritating to eye.
- **Respiratory or skin sensitization** : Not available.
- **Germ cell mutagenicity** : Not available.
- **Carcinogenicity** : None of the components are listed in IARC and NTP.
- **Reproductive toxicity** : Not available.
- **Specific Target Organ Toxicity - single exposure** : Not available.
- **Specific Target Organ Toxicity - repeated exposure** : Not available.
- **Aspiration hazard** : Not available.
- **Information on likely routes of exposure** : Routes of entry anticipated; oral, dermal, inhalation.
- **Symptoms related to the physical, chemical and toxicological characteristics** :
  - Inhalation** : Not available.
  - Ingestion** : Not available.
  - Skin contact** : Not available.
- **Eye contact** : May cause eye burns.
- **Delayed and immediate effects and also chronic effects from short and long term exposure** :
  - Short term exposure / Potential immediate effects** : Not available.
  - Potential delayed effects** : Not available.
  - Long term (chronic) exposure / Potential immediate effects** : Not available.
  - Potential delayed effects** : Not available.
- **Numerical measures of toxicity** : Not available.

Product name : Human Pentraxin3 / TSG-14 ELISA System (Code No. PP-PD03-E0) 6/7

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## 12. Ecological Information

- **Ecotoxicity** : Not available.
- **Persistence and degradability** : Not available.
- **Bioaccumulative potential** : Not available.
- **Mobility in soil** : Miscible in water. May spread in water systems. This component is non-volatile.
- **Other adverse effects** : Not available.

## 13. Disposal Considerations

- **Disposal methods** : Dispose of waste in accordance to applicable national, regional, or local laws and regulations. Do not dump into any body of water. Contact a licensed professional waste disposal service for appropriate methods of disposal.
- **Contaminated packaging** : Dispose in the same manner as unused product.
- **Special precautions** : Dispose of small amounts of spilled material as described in section 6. Large spills must be dealt with separately by qualified disposal personnel. Avoid dispersal of spilt material to soil, waterways, drains and sewers.

## 14. Transportation Information

- **ADR/RID AND/ADNR IMDG IATA/DOT** : METHANOL
- **UN Number** : UN1230.
- **DOT regulations** : Quantity limitation, Cargo aircraft: 60 L.
- **Hazard class** : DOT:3 IATA:3 ADR/RID3
- **Land transport ADR/RID (cross-border)** : Not applicable.
- **Maritime transport IMDG** : Not applicable.
- **Marine pollutant** : Not applicable.
- **Air transport ICAO-TI and IATA-DGR** : Not applicable.
- **Transport/Additional information** : Not applicable.

## 15. Regulatory Information

### • US Federal and State Regulations

**TSCA (Toxic Substances Control Act)** : All of the components in this mixture are listed.

**SARA 313** : Not applicable.

**SARA 311/312 Hazards** : Not applicable.

**CERCLA Reportable Quantity** : Not applicable.

**California Proposition 65** : Methanol is listed as a having developmental toxicity.

### • European Union

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

# Safety Data Sheet

**Product name** : Human Pentraxin3 / TSG-14 ELISA System (Code No. PP-PD03-E0) 6/7

Reference Number : PT150001

Issuing Date : 5 Augst 2021

Revision Date : 1 July 2023

## **16. Other Information**

• **Notice to reader** : To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution.

Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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## 1. Identification of Substance / Mixture and of the Company / Undertaking

- **Other means of identification / Components name** : Stop solution
- **Application of the substance / the preparation** : For research use only.
- **Company** : Perseus Proteomics Inc.  
**Address** : 30-1 Nihonbashi-hakozakicho, Chuo-ku, Tokyo, 103-0015, Japan  
**Telephone** : +81-3-6264-8268  
**Fax** : +81-3-3668-7776
- **Emergency phone** : +81-3-6264-8268
- **Note** : This SDS is written to address potential health and safety issues associated with the handling of the formulated product.

## 2. Hazards Identification

- **Classification** : Corrosive to metals (Category 1) – H290  
Skin irritation (Category 2) – H315  
Serious eye damage (Category 1) – H318

- **Pictogram** :



- **Signal word** : Danger.
- **Hazard statements** : H290 – May be corrosive to metals.  
H315 – Causes skin irritation.  
H320 – Causes serious eye damage.
- **Precautionary statements** : P302+ P352 - IF ON SKIN: Wash with plenty of soap and water.  
P305 + P351 + P337 + P313- IF IN EYES: Rinse cautiously with water for several minutes.  
If eye irritation persists get medical advice/attention.
- **NFPA Scale: 0-4** : Health: 2 Fire: 0 Reactivity: 0
- **HIMIS(U.S.A) Scale: 0-4** : Health: 2 Flammability: 0 Physical Hazard: 0 Personal Protection: C
- **Potential Environmental Effect** : May affect the acidity (pH) in water with risk of harmful effects to aquatic organisms.
- **Other hazards** : PBT: This mixture does not contain any substances that are assessed to be a PBT.  
vPvB: This mixture does not contain any substances that are assessed to be a vPvB.

## 3. Composition / Information on Ingredients

<u>Ingredient</u>	<u>CAS No.</u>	<u>EINECS/ELINCS No.</u>	<u>%Composition</u>	<u>GHS Classification</u>
Hydrochloric acid	7647-01-0	231-595-7	≤2%	Warning 3. H335, Danger 1B. H314
Sulfuric acid	7664-93-9	231-639-5	≤2%	Danger 1B. H314



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## 4. First Aid Measures

- **If inhaled** : If inhaled, remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.  
Get medical attention if symptoms worsen.
- **In case of skin contact** : Remove contaminated clothing and wash contact area with mild soap and copious amounts of water. Get medical attention if irritation develops.
- **In case of eye contact** : Check for and remove contact lenses. Immediately flush eyes with copious amounts of water and get immediate medical attention.
- **If swallowed** : Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.  
Loosen tight clothing such as collar, tie, belt or waistband. Get immediate medical attention.

## 5. Firefighting Measures

- **Suitable extinguishing media** : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- **Special hazards arising from the substance or mixture** : Hydrogen chloride gas. Emits acrid vapors under fire conditions.
- **Advice for firefighters** : Wear self-contained breathing apparatus for firefighting if necessary.

## 6. Accidental Release Measures

- **Person-related safety precautions** : Wear chemical resistant clothing, gloves, and eye protection. Wear NIOSH/MSHA approved breathing apparatus.
- **Measures for environmental protection** : Keep material away from heat, flame, ignition sources, and reactive materials. Don't allow product to enter drain.
- **Measures for containment and cleaning up** : Absorb liquid components with inert liquid-binding material. Pick up mechanically. Dispose contaminated material as waste according to section 13.

## 7. Handling and Storage

- **Precautions for safe handling** : Avoid contact with skin and eyes. Wash thoroughly after handling. Avoid breathing vapor.
- **Information about protection against explosions and fires** : Use only if adequate ventilation is provided.
- **Conditions for safe storage, including any incompatibilities** : Store in well ventilated area. Keep container tightly closed. Store at 15-30°C.

## 8. Exposure controls and Personal Protection

- **Permissible Exposure Limits** :

<u>Component</u>	<u>Permissible Exposure Limits(s)</u>
Hydrochloric Acid (37%)	NIOSH REL : C 5 ppm (7 mg/m <sup>3</sup> ), OSHA PEL : C 5 ppm (7 mg/m <sup>3</sup> )
- **Appropriate engineering controls** : Follow usual standard laboratory practices. The following personal protection is recommended:
  - **Respiratory Protection** : Avoid breathing vapor. Use respirators and components approved under appropriate government standards.
  - **Hand Protection** : Handle with gloves. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.
  - **Eye Protection** : Use equipment for eye protection tested and approved under appropriate government standards.
  - **Skin and Body Protection** : Use impervious clothing. The type of protective equipment must be selected according to the concentration and

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amount of the dangerous substance at the specific workplace.

**Hygiene Measures** : Working area should be adequately large and well ventilated to prevent concentration of vapors. Provide mechanical exhaust ventilation or other engineering controls to keep airborne concentrations of vapors below their respective threshold limits.

## 9. Physical and Chemical Properties

Appearance	Liquid
Color	Colorless
Odor	Odorless
Odor threshold	Not available.
pH	Not available.
Melting point/Freezing point	Not available.
Boiling point/Boiling range	Not available.
Evaporation rate	Not available.
Flash point	Not available.
Upper/lower flammability or explosive limits	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Water solubility	Soluble.
Partition coefficient :n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Flammability	Not available.
Explosive properties	Not explosive.
Oxidizing properties	Not available.

## 10. Stability and Reactivity

- **Reactivity** : Not available.
- **Chemical Stability** : Stable under normal ambient and storage and handling temperatures.
- **Incompatible materials to be avoided** : Fire, static electricity, direct sunlight.
- **Incompatible materials** : Metals, strong oxidizers, strong bases, metal oxides.
- **Hazardous decomposition products** : Hydrogen Chloride, Hydrogen Gas.

## 11. Toxicological Information

- **Acute toxicity** : Not available.
- **Skin corrosion / irritation** : Irritating to skin and mucous membranes.

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- **Serious eye damage / irritation** : Corrosive to eye.
- **Respiratory or skin sensitization** : Not available.
- **Germ cell mutagenicity** : Not available.
- **Carcinogenicity** : None of the components are listed in IARC and NTP.
- **Reproductive toxicity** : Not available.
- **Specific Target Organ Toxicity - single exposure** : Not available.
- **Specific Target Organ Toxicity - repeated exposure** : Not available.
- **Aspiration hazard** : Not available.
- **Information on likely routes of exposure** : Routes of entry anticipated: oral, dermal, inhalation.
- **Symptoms related to the physical, chemical and toxicological characteristics** :
  - Inhalation** : Not available.
  - Ingestion** : Not available.
  - Skin contact** : Not available.
- **Eye contact** : May cause eye burns.
- **Delayed and immediate effects and also chronic effects from short and long term exposure** :
  - Short term exposure / Potential immediate effects** : Not available.
  - Potential delayed effects** : Not available.
  - Long term (chronic) exposure / Potential immediate effects** : Not available.
  - Potential delayed effects** : Not available.
- **Numerical measures of toxicity** : Not available.

## 12. Ecological Information

- **Ecotoxicity** : Not available.
- **Persistence and degradability** : Not available.
- **Bioaccumulative potential** : Not available.
- **Mobility in soil** : Miscible in water. May spread in water systems. This component is non-volatile.
- **Other adverse effects** : Not available.

## 13. Disposal Considerations

- **Disposal methods** : Dispose of waste in accordance to applicable national, regional, or local laws and regulations. Do not dump into any body of water. Contact a licensed professional waste disposal service for appropriate methods of disposal.
- **Contaminated packaging** : Dispose in the same manner as unused product.
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## 14. Transportation Information

- **ADR/RID AND/ADNR IMDG IATA/DOT** : Not applicable.
- **UN Number** : Not applicable.

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- **DOT regulations** : Not applicable.
- **Hazard class** : Not applicable.
- **Land transport ADR/RID (cross-border)** : Not applicable.
- **Maritime transport IMDG** : Not applicable.
- **Marine pollutant** : Not applicable.
- **Air transport ICAO-TI and IATA-DGR** : Not applicable.
- **Transport/Additional information** : Not applicable.

## **15. Regulatory Information**

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