

### 1. IDENTIFICATION OF PRODUCT AND SUPPLIER

**Product name:** Total Protein (CATALOG No. HT928, HT728, HT428, OT928)

**Product Use:** For quantitative determination of Total Protein in serum using Hitachi Analyzers.

**Supplier:** POINTE SCIENTIFIC INC.  
5449 Research Drive  
Canton, Michigan 48188  
Ph: 1-734-487-8300  
Fax: 1-734-483-1592  
Email: [info@pointescientific.com](mailto:info@pointescientific.com)

**Emergency:** Pointe Scientific, Inc. Tel. 1-800-445-9853

### 2. HAZARD(S) IDENTIFICATION

R1:

Hazard Classifications:

Acute Toxicity, Oral (Category 4)  
Skin Corrosion/Irritation (Category 1)  
Serious Eye Damage/Irritation (Category 1)

Hazard Statements

H302: Harmful if swallowed  
H314: Causes severe skin burns and eye damage  
H318: Causes serious eye damage

Precautionary Statements

**Prevention:**

P260: Do not breathe dust/fume/gas/mist/vapours/spray  
P264: Wash skin thoroughly after handling  
P270: Do not eat, drink or smoke when using this product  
P280: Wear protective gloves/protective clothing/eye protection/ face protection

**Response:**

P310: Immediately call a POISON CENTER or doctor/physician  
P363: Wash contaminated clothing before reuse  
P301 + P330 + P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower  
P304 + P340: IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing  
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

**Storage:**

P404: Store in a closed container.

**Disposal:**

P501: Dispose of contents into sewer system after diluting with large volumes of water, if in accordance with local regulations.



Signal Word: Danger

R2:

Hazard Classifications:

Acute Toxicity, Oral (Category 4)  
Skin Corrosion/Irritation (Category 1)  
Serious Eye Damage/Irritation (Category 1)

Hazard Statements

H302: Harmful if swallowed  
H314: Causes severe skin burns and eye damage  
H318: Causes serious eye damage

Precautionary Statements

**Prevention:**

P260: Do not breathe dust/fume/gas/mist/vapours/spray  
P264: Wash skin thoroughly after handling  
P270: Do not eat, drink or smoke when using this product  
P280: Wear protective gloves/protective clothing/eye protection/ face protection



Signal Word: Danger

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P310: Immediately call a POISON CENTER or doctor/physician  
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Continue rinsing

**Storage:**

P404: Store in a closed container.

**Disposal:**

P501: Dispose of contents into sewer system after diluting with large volumes of water, if in accordance with local regulations.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

R1: Sodium Hydroxide (CAS # 1310-73-2) 3.00%

R2: Sodium Hydroxide (CAS # 1310-73-2) 3.00%  
Copper Sulfate (CAS # 7758-99-8) 0.52%

## 4. FIRST AID MEASURES

**SKIN:** In case of contact, immediately flush area with plenty of water.  
**EYES:** Immediately flush eyes with plenty of water for at least 15 minutes and get medical attention.  
**ORAL:** If ingested drink plenty of fluids and contact a physician.  
**INHALATION:** If inhaled move victim to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen, and call physician.

## 5. FIRE-FIGHTING MEASURES

**Flammable:** NO  
**Extinguishing media:** As appropriate for fire in surrounding materials.  
**Flash point:** Not Applicable  
**Upper flammable limit:** Not Applicable  
**Lower flammable limit:** Not Applicable  
**Autoignition temperature:** Not Applicable  
**Hazardous combustion products:** No data

**Explosion data**

**Sensitivity to mechanical impact:** Not Applicable  
**Sensitivity to static discharge:** Not Applicable  
**Unusual fire and explosion hazards:** No Data

## 6. ACCIDENTAL RELEASE MEASURES

**Local exhaust:** Not Required  
**Protective clothing:** Lab Coat  
**Protective gloves:** Rubber/Latex  
**Eye protection:** Safety glasses  
**Respiratory protection:** Required if inadequate ventilation  
**Leak and spill procedure:** Absorb small leaks or spills with sponge, mop up large spills with plenty of soap and water.

## 7. HANDLING AND STORAGE

**Handling:** Normal precautions for handling chemicals must be observed.  
**Storage:** Store at room temperature  
**Shipping regulations:** Not regulated

## 8. EXPOSURE CONTROLS / PERSONNEL PROTECTION

**Local exhaust:** Not Required  
**Protective clothing:** Lab Coat  
**Protective gloves:** Rubber/Latex  
**Eye protection:** Safety glasses  
**Respiratory protection:** Required if inadequate ventilation  
**Other precautions:** Avoid contact and inhalation, do not get in eyes, on skin or clothing. Do not pipet by mouth. Wash contaminated clothing before reuse.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state:	Reagent are provided as stable liquids.
Appearance and odor:	R1 is clear colorless solution. R2 is a blue solution.
Odor threshold:	Not Available
Vapor pressure:	Not Available
Vapor density:	Not Available
Specific gravity:	Not Available
Evaporation rate:	Not Available
Melting point:	Not Available
Boiling point:	Not Available
Solubility in water:	Not Applicable
pH:	Reagent = 13.20
Coefficient of oil/water distribution:	Not Available

**10. STABILITY AND REACTIVITY**

Stable:	Yes
Hazardous polymerization:	Will not occur.
Incompatibility with other substances:	Not Available
Hazardous decomposition products:	Not Available

**11. TOXICOLOGICAL INFORMATION**

**ROUTE OF ENTRY/EXPOSURE**

SKIN CONTACT: [x] EYE CONTACT: [x] INHALATION: [x] INGESTION: [x] SKIN ABSORPTION [x]

**Effects of acute exposure:**

<b>SKIN CONTACT:</b>	Will cause irritation.
<b>EYE CONTACT:</b>	Will cause irritation.
<b>INGESTION:</b>	Will be harmful if ingested.
<b>INHALATION:</b>	Will cause irritation to mucous membranes and upper respiratory tract.

**Effects of chronic exposure:** No data available.

<b>SENSITIZATION TO PRODUCT:</b>	Not Available
<b>SYNERGISTIC PRODUCTS:</b>	Not Available
<b>LD50: MOPSO:</b>	Not Available

**12. ECOLOGICAL INFORMATION**

**Water Hazard Class:** Data not yet available.

**13. DISPOSAL CONSIDERATIONS**

**Waste disposal:** Dilute with large volumes of water and dispose of into sewer system, in accordance with local regulations.

**14. TRANSPORT INFORMATION**

**Shipping information:** Not regulated

**15. REGULATORY INFORMATION**

Not applicable.

**16. OTHER INFORMATION**

The information herein is believed to be correct as of the date hereof but is provided without warranty of any kind. The recipient of our products is responsible for observing any laws and guidelines applicable.

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