

**Section 1 – Product and Company Identification**
**1.1 Manufacturer Information**

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**1.2 Product Information**

Product Name: Bone Health Antibodies and Proteins (Catalog #'s)

Product Name	Catalog No.	Recommended Use	Quantity (mg)
Bovine H-Pyd	4805	Research Use Only	0.02
Bovine H-Dpd	4807	Research Use Only	0.02
Mouse Anti-Pyd Antibody	4809	Research Use Only	0.1
Mouse Anti-Dpd	4811	Research Use Only	0.1
Mouse Anti-YKL-40 Antibody	4813	Research Use Only	0.1
Rabbit Anti-YKL-40 Antibody	4815	Research Use Only	0.1
Mouse Anti-CICP	4817	Research Use Only	0.1
Mouse YKL-40 Purified Protein	A442	Research Use Only	0.025
Mouse Anti-PINP #1 (9D9C4)	4751	Research Use Only	0.1
Mouse Anti-PINP #2 (9G5A1)	4752	Research Use Only	0.1
Mouse Anti-PINP #3 (7H10C6)	4753	Research Use Only	0.1
Mouse Anti-PINP #4 (12C2C8)	4754	Research Use Only	0.1

 Intended Use: These components are for **Research Use Only**. Not for use in diagnostic procedures.

Components: Various (see table above)

**Section 2 – Hazard Identification**

- |   |                                       |
|---|---------------------------------------|
| <b>2.1 Classification of the Substance of Mixture</b>   | Not a hazardous substance or mixture. |
| <b>2.2 GHS Label Elements, including Precautionary Statements</b>   | Not a hazardous substance or mixture. |
| <b>2.3 Hazards Not Otherwise Classified (HNOC) or not covered by GHS</b>                                      |                                       |
| - Contains potentially infectious materials. Follow Universal Precautions when working with these components. |                                       |

**Section 3 – Composition / Information on Ingredients**
**3.1 Mixtures**

Contains non-hazardous quantities of proprietary ingredients according to OSHA (29 CFR 1910.1200).  
 Not a hazardous mixture according to Regulation (EC) No. 1272/2008.

- 3.2**
- No chemicals need to be disclosed according to the applicable regulations for the components in this kit.

**Section 4 – First Aid Measures**
**4.1 Description of First Aid Measures**

<b><i>If inhaled:</i></b>	Move the person to fresh air and support breathing as required.
<b><i>In case of skin contact:</i></b>	Wash affected area with soap and water. Seek medical advice if irritation develops.
<b><i>In case of eye contact:</i></b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists get medical attention.

**Section 4 – First Aid Measures (Cont'd)**

**If swallowed:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Seek medical advice if irritation develops.

**4.2 Most Important Symptoms and Effects (both acute and delayed)**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed**

No specific measures identified.

**Section 5 – Fire Fighting Measures**

Only individuals properly trained and issued appropriate personal protective equipment should respond and attempt to extinguish a fire.

**5.1 Suitable Extinguishing Media**

For small fires, use dry chemical, carbon dioxide or alcohol-resistant foam.

**5.2 Special Hazards Arising From the Substance or Mixture**

Nature of decomposition products not known.

**5.3 General Fire Hazards**

The components within this kit will not significantly contribute to the intensity of a fire.

**5.4 Fire Fighting Equipment**

Firefighters should wear full protective gear when responding to fires.

**Section 6 – Accidental Release Measures**

Only individuals properly trained and issued appropriate personal protective equipment should respond and attempt to clean up a spill or release. A large spill of the components contained within this kit is unlikely.

**6.1 Personal Precautions**

Avoid breathing vapors, mist or gas.

**6.2 Environmental Precautions**

Contain spill to prevent migration to drains, sewers or open water sources. Discharge to the environment must be avoided.

**6.3 Methods and Materials for Clean-Up**

Soak up with inert absorbent material (e.g., paper towel, etc.). Thoroughly wash the area with soap and water after a spill or release clean-up.

**6.4 Recovery and Neutralization**

Collect spilled material and clean-up supplies and place in a sealed container for disposal. Refer to Section 13 for disposal guidance.

**Section 7 – Handling and Storage****7.1 Specific Use**

For professional use only – Not for use by the general public.

**7.2 Precautions for Safe Handling**

As with all chemical and biological substances, avoid getting these components ON YOU or IN YOU. Wash exposed areas thoroughly after using these components. Do not eat or drink while using these components. These components should be handled only by qualified clinical or laboratory employees trained on the use of these antibodies and proteins and who are familiar with the potential hazards. **Universal Precautions should be followed when handling and working with these components.** Keep out of reach of the general public.

**7.3 Conditions for Safe Storage (including any incompatibilities)**

To maintain efficacy, store according to the package insert instructions.

**7.4 Incompatibilities**

To maintain efficacy, store according to the package insert instructions.

**Section 8 – Exposure Controls and Personal Protection**

- 8.1 Exposure Limits** No data available for the Bone Health Antibodies and Proteins.
- 8.2 Exposure Controls**
- Engineering Measures Use with adequate ventilation.
- Personal Protective Equipment
- Respiratory Protection* None needed under normal conditions of use.
- Skin Protection* Handle with appropriately rated chemical resistant gloves. Gloves should be inspected prior to use. Use proper glove technique to remove gloves to avoid contact with skin. Wash hands after handling these components.
- Eye Protection* Wear safety glasses with side shields or goggles to prevent eye contact.
- Body Protection* Use body protection appropriate for the task. A laboratory coat is recommended.
- Hygiene Measures* Wash hands before use, after use and at the end of the workday.
- 8.3 Environmental Exposure Controls** No special environmental controls are required.
- 8.4 Special Notes** No data available.

**Section 9 – Physical and Chemical Properties**

Characteristic	Antibodies and Proteins
Boiling Point (°C)	No data available
Melting Point (°C)	No data available
Specific Gravity (H <sub>2</sub> O = 1)	No data available
Vapor Pressure (mm Hg)	No data available
Vapor Density (Air = 1)	No data available
Evaporation Rate (Ether = 1)	No data available
pH	No data available
Solubility in Water	Soluble
Appearance and Odor	Clear liquid, Odorless

**Section 10 – Stability and Reactivity**

Characteristic	Antibodies and Proteins
Component Stability	Stable
Hazard Reaction Potential	No data available
Conditions to Avoid	No data available
Materials to Avoid	No data available
Hazardous Decomposition Products	No data available

**Section 11 – Toxicological Properties****11.1 Information on Toxicological Effects**

Acute Toxicity	No data available
Skin Corrosion / Irritation	No data available
Respiratory or Skin Sensitization	No data available
Generative Cell Mutagenicity	No data available
Carcinogenicity	No component of this kit present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by the ACGIH, IARC, NTP or OSHA.
Reproductive Toxicity	No data available
Teratogenicity	No data available
Specified Target Organ Toxicity	
<u>Single Exposure:</u>	No data available
<u>Repeated Exposure:</u>	No data available
Aspiration Hazard	No data available
Potential Health Effects	
<i>Inhalation:</i>	May cause respiratory tract irritation.
<i>Ingestion:</i>	May be harmful if swallowed.
<i>Skin:</i>	May cause skin irritation upon contact.
<i>Eyes:</i>	May cause eye irritation.

**11.2 Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated for the components within this kit.

**11.3 Additional Information**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated for the components within this kit.

**Section 12 – Ecological Information**

<b>12.1 Toxicity</b>	No data available
<b>12.2 Persistence and Degradability</b>	No data available
<b>12.3 Bioaccumulative Potential</b>	No data available
<b>12.4 Mobility in Soil</b>	No data available
<b>12.5 PBT and vPvB Assessment</b>	No data available
<b>12.6 Other Adverse Effects</b>	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Avoid disposal to the environment.

**Section 13 – Disposal Considerations****13.1 Waste Disposal Instructions**

Utilize appropriate personal protective equipment and spill control when handling wastes generated from using this kit. Do not discharge any of the control stocks into drains, water courses or onto the ground.

**13.2 Disposal of Product and Contaminated Packaging**

Dispose of waste materials, unused components and contaminated packaging in compliance with country, federal, state and local regulations. If unsure of the applicable regulatory requirements, contact a licensed professional waste disposal service to dispose of this material.

**Section 14 – Transportation Information**

- 14.1 U.S Department of Transportation (DOT)** These components are not regulated for transport.
- 14.2 International Air Transportation Association (IATA)** These components are not regulated for transport.
- 14.3 International Maritime Dangerous Goods (IMDG)** These components are not regulated for transport.

**Section 15 – Regulatory Information**
**15.1 U.S. Federal Regulations**

- OSHA Hazards None
- SARA 302 The following chemicals are subject to reporting levels established by Sara Title III, Section 302:  
No chemicals in this kit are subject to the reporting requirements of SARA Title III, Section 302.
- SARA 313 The following chemicals are subject to reporting levels established by SARA Title III, Section 313:  
No chemicals in this kit are subject to the reporting requirements of SARA Title III, Section 313.
- SARA311/312 Hazards No SARA hazards.

**15.2 State Regulations**

The following chemicals appear on one or more of the following state hazardous substance lists:

Chemical Name	CAS #	CA	MA	MN	NJ	PA	RI
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California Prop 65: None of the components listed in this SDS contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

**15.3 Canadian – WHMIS Ingredient Disclosure List**

Chemical Name	CAS #	Minimum Concentration
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**15.4 Additional Regulatory Information**

**Safety, Health and Environmental Regulations/Legislation Specific for the Mixture** No data available

**Chemical Safety Assessment** Not completed for the components contained within this kit.

**HMIS Kit Classification:**

Health Hazard: 1  
 Chronic Health Hazard: \*  
 Flammability: 0  
 Physical Hazard: 0

**NFPA Kit Classification:**

Health Hazard (blue): 1  
 Fire Hazard (red): 0  
 Reactivity (yellow): 0  
 Special Hazards (white): None

*\*Use additional care when handling the Bone Health Antibodies and Proteins.*

**Section 16 – Other Information**

Every effort has been made to adhere to the hazard criteria and content requirements of the U.S. OSHA Hazard Communication Standard, European Communities Safety Data Sheets Directive, Canadian Controlled Products Regulations, UK Chemical Hazard information and Packaging Regulations, and UN Globally Harmonized System of Classification and Labeling of Chemicals.

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**SUPERSEDES:** September 13, 2013

**REVISIONS:** Change to 16-section format.

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