

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

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**1.2 Product Information**

Product Name: Normal Human Serum Complement (Catalog #: A111, A112, A113)

Intended Use: Human Serum Complement is intended for use expressly in experiments to assess levels of *in vitro* complement activation or complement cytotoxicity. It has been characterized in the Quidel Complement Activation Assays for level of Bb, C4d, C3a, iC3b, and TCC as well as for total CH50.

Components: 1.0 – 5.0 mL vials (typically frozen)

**Section 2 – Hazard Identification**

**2.1 Classification of the Substance of Mixture** Not a hazardous substance or mixture.

**2.2 GHS Label Elements, including Precautionary Statements** Not a hazardous substance or mixture.

**2.3 Supplemental Hazard Statements**

- Contains potentially infectious materials. Refer to Universal Precautions information in Section 7, Handling and Storage.
- Potentially infectious material

**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**

- If inhaled:** Move the person to fresh air and support breathing as required.
- In case of skin contact:** Wash affected area with soap and water. Seek medical advice if irritation develops.
- In case of eye contact:** 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.
- If swallowed:** Never give anything by mouth to an unconscious person. Rinse mouth with water (do not swallow). 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 any of the components listed in this SDS is unlikely.

**6.1 Personal Precautions**

Use personal protective equipment, including protective gloves and safety glasses when cleaning up small spills of the Bone Health antibodies or proteins. Avoid breathing vapors, mist or gas. Keep all unnecessary personnel away from the spill area.

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

Wipe 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.

**6.3 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.

**6.4 Environmental Precautions**

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

**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. Keep out of reach of the general public.

**7.3 Universal Precautions**

No known test method can offer complete assurance that product(s) derived from human blood, serum or plasma used in components of this kit will not transmit infectious agents. All blood products should be treated as potentially infectious; use universal precautions. Users should ensure the use of proper personal protective equipment (PPE), covering of any cuts or abrasions on the skin (hands), and follow standard protocols for the decontamination of work surfaces when testing has been completed. Always wash hands thoroughly after handling the components within this kit.

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

To maintain efficacy, store according to the Package Insert instructions or Technical Data Sheet.

**7.5 Incompatibilities**

To maintain efficacy, store according to the Package Insert instructions or Technical Data Sheet.

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

<b>8.1 Exposure Limits</b>	No data available for this component.
<b>8.2 Exposure Controls</b>	
Engineering Measures	Use with adequate ventilation.
Personal Protective Equipment	
<i>Respiratory Protection</i>	None needed under normal conditions of use.
<i>Skin Protection</i>	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.
<i>Eye Protection</i>	Wear safety glasses with side shields or goggles to prevent eye contact.
<i>Body Protection</i>	Use body protection appropriate for the task. A laboratory coat is recommended.
<i>Hygiene Measures</i>	Wash hands before use, after use and at the end of the workday.
<b>8.3 Environmental Exposure Controls</b>	No special environmental controls are required.
<b>8.4 Special Notes</b>	No data available.

**Section 9 – Physical and Chemical Properties**

Characteristic	Normal Human Serum Complement
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 (frozen)

**Section 10 – Stability and Reactivity**

Characteristic	Normal Human Serum Complement
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

**Section 11 – Toxicological Properties (cont'd)**

Carcinogenicity	No component, of the Normal Human Serum Complement, is 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>Skin:</i> May cause skin irritation upon contact.
	<i>Ingestion:</i> May be harmful if swallowed.	<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 this component.

**11.3 Additional Information**

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

**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 component. Do not discharge this component 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**

<b>14.1 U.S Department of Transportation (DOT)</b>	This component is not regulated for transport.
<b>14.2 International Air Transportation Association (IATA)</b>	This component is not regulated for transport.
<b>14.3 International Maritime Dangerous Goods (IMDG)</b>	This component is 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
--	-	-	-	-	-	-	-

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 Classification**

Chemical Name	CAS #	Classification
Normal Human Serum Complement	--	Potentially Infections Material

**15.4 Additional Regulatory Information**
**Safety, Health and Environmental Regulations/Legislation Specific for the Mixture**

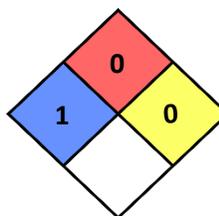
European Union – Regulation (EC) 1907/2006

**Chemical Safety Assessment**

Not completed for the components contained within this kit.

**NFPA Kit Classification:**

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


**Section 16 – Other Information**

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**SUPERSEDES:** July 9, 2013

**REVISIONS:** Updated from one-page SDS template to 16-Section SDS template.

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