

MATERIAL SAFETY DATA SHEET

Date Revised: September 12, 2012

PRODUCT AND COMPANY INFORMATION

Product Name: CF568 goat anti-mouse IgG (H+L), highly cross-adsorbed
Catalog Number: 20101/20101-1
Unit Size: 0.5 mL/50ul (2 mg/mL)
Manufacturer/Supplier: Biotium, Inc.
3159 Corporate Place. Hayward, CA 94545, USA
Phone: 1-510-265-1027, Fax: 1-510-265-1352
Web: http://www.biotium.com

COMPOSITION AND INFORMATION ON INGREDIENTS**Hazardous / Non-hazardous Components**

| Chemical Name | CAS-No. | EINECS-No. | Weight% |
|--|------------|------------|---------|
| CF568 goat anti-mouse IgG (H+L), highly cross-adsorbed | - | - | 0.2% |
| Glycerol | 56-81-5 | 200-272-2 | <50% |
| Bovine Serum Albumin | 9048-46-8 | 232-936-2 | <0.5% |
| Sodium Azide | 26628-22-8 | 247-852-1 | <0.01% |
| Disodium hydrogenorthophosphate | 7558-79-4 | 231-448-7 | <0.5% |
| Sodium dihydrogenorthophosphate | 7558-80-7 | 231-449-2 | <0.5% |
| Sodium chloride | 7647-14-5 | 231-589-3 | <0.5% |
| Water | 7732-18-5 | 231-791-2 | >50% |

HAZARDS IDENTIFICATION**European labeling in Accordance with EC regulations no.1272/2008**

| Chemical Name | Classification. | R-Phrase(s) |
|--|---|----------------|
| CF568 goat anti-mouse IgG (H+L), highly cross-adsorbed | - | - |
| Glycerol | - | - |
| Bovine Serum Albumin | - | - |
| Sodium Azide | T+= very toxic N=dangerous for the environment | R28,R32,R50-53 |
| Disodium hydrogenorthophosphate | - | - |
| Sodium dihydrogenorthophosphate | - | - |
| Sodium chloride | - | - |
| Water | - | - |

Under the current component concentration. This product is not toxic according to the regulation (EC) no. 1272/2008

GHS label element, including precaution statement

Pictogram None
Signal word None
Hazard statements
None

FIRST AID MEASURES

Skin contact Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

Ingestion Never give anything by mouth to an unconscious person. Consult a physician if necessary

Inhalation Move to fresh air. Oxygen or artificial respiration if needed. Get medical attention if symptoms persist.

Note to physician

Treat symptomatically

FIRE FIGHTING MEASURES

Use carbon dioxide, dry chemical extinguishers, foam extinguishers or water. An approved self-contained breathing apparatus and protective clothing are recommended.

ACCIDENTAL RELEASE MEASURES

Use appropriate protective equipment and methods to clean up spilled substance promptly. Absorb spill onto an appropriate material. Collect and dispose of all waste in accordance with applicable laws.

HANDLING AND STORAGE

Store refrigerated and avoid freeze-thaw cycles. Avoid long-term light exposure.

EXPOSURE CONTROLS AND PERSONAL PROTECTION**POTENTIAL HEALTH EFFECTS**

| | |
|---------------------------|---|
| Inhalation: | May cause irritation to respiratory system. |
| Ingestions: | May be harmful if swallowed. |
| Skin: | Moderate skin irritation. Components of this product may be absorbed into the body through the skin |
| Eyes: | Mild eye irritation |
| Chronic Exposures: | May cause damage to the liver and kidneys |
| Target Organs: | Eye, skin, respiratory system, kidney, liver |

Environmental exposure controls: Prevent product from entering drains

Engineering measures: Ensure adequate ventilation

| | |
|-----------------------------|----------------|
| Personal protection: | Lab coat |
| Eye protection: | Safety goggles |
| Hand protection: | Rubber gloves |

ACGIH/OSHA Permissible Exposure Limit Data: Contains no substances over occupational exposure limit values

PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-----------------------------|----------------|
| Form: | Pink solution |
| Odor: | None |
| Solubility in Water: | High |
| Specific Gravity: | Not determined |
| pH: | 7.4 |
| Boiling Point: | Not determined |
| Melting Point: | Not determined |
| Flash Point: | Not determined |
| Vapor Pressure: | Not determined |

STABILITY AND REACTIVITY

| | |
|---|---|
| Thermal Decomposition: | No decomposition if used according to specifications. |
| Dangerous R Stability: | Stable |
| Conditions to avoid: | Prolong heating above 150°C (302°F) |
| Thermal Decomposition: | No decomposition if used according to specifications |
| Dangerous Reactions: | No dangerous reactions identified if used according to specification |
| Dangerous Products of Decomposition: | No dangerous decomposition products identified if used according to specification |
| Hazardous polymerization: | Will not occur |

TOXICOLOGICAL INFORMATION

RTECS Number: None known**Toxicity:**

| Chemical Name | LD50 (oral) rat | LD50 (dermal) rabbit | LC50 (inhalation) |
|--|-------------------|----------------------|-------------------|
| CF568 goat anti-mouse IgG (H+L), highly cross-adsorbed | No data available | No data available | No data available |
| Glycerol | No data available | No data available | No data available |
| Bovine Serum Albumin | No data available | No data available | No data available |
| Sodium Azide | 27mg/kg | 20mg/kg | No data available |
| Disodium hydrogenorthophosphate | 17000mg/kg | No data available | No data available |
| Sodium dihydrogenorthophosphate | 8290mg/kg | No data available | No data available |
| Sodium chloride | 3g/kg | 10g/kg | 42g/m3/H |
| Water | No data available | No data available | No data available |

Potential Health Hazards:

| | |
|-------------------|--------------------------|
| Eyes | No information available |
| Skin | No information available |
| Inhalation | No information available |
| Ingestion | No information available |

Carcinogenicity:**IARC/ACGIH/NTP/OSHA** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed carcinogen.**Mutagenicity:** No information available**Reproductive toxicity:** No information available**Under the current component concentration. This product is not toxic according to the regulation (EC) no. 1272/2008**

ECOLOGICAL INFORMATION

Ecotoxicity effects: All components are degradable in waste water treatment plants

| | | |
|--------------------------|--|---|
| Aquatic toxicity: | CF568 goat anti-mouse IgG (H+L), highly cross-adsorbed | No data available |
| | Glycerol | No data available |
| | Bovine Serum Albumin | No data available |
| | Disodium hydrogenorthophosphate | No data available |
| | Sodium dihydrogenorthophosphate | No data available |
| | Sodium chloride | No data available |
| | Water | No data available |
| | Sodium azide | Very toxic to aquatic organism. May cause long term adverse effect in aquatic environment. 96hours LC50 Lepomis macrochirus 0.7mg/ml H400 |

Mobility: Completely soluble**Biodegradation:** Inherently biodegrade**Bioaccumulation:** Does not bioaccumulate**Under the current component concentration. This product is not ecotoxic according to the regulation (EC) no. 1272/2008**

DISPOSAL CONSIDERATIONS

Consult local, state or national regulations for proper disposal

TRANSPORT INFORMATION

Hazards Class: Not determined**Identification Number:** Not determined**Packing Group:** Not classified

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info@biotium.com
<http://www.biotium.com/>

Proper Shipping Name (Technical Name): Not determined
DOT/IMDG/IATA No dangerous goods

REGULATIONS

In accordance with local and national regulations, this product is classified and labeled according to Regulation (EC) no.1272/2008

US Toxic Substances Control Act (TSCA): Not listed

US Other: Not applicable

EEC EINECS Number: Not identified

EEC Risk Statements: None identified

Other Country Regulations: None identified

OTHER INFORMATION

Disclaimer: The information provided above is believed to be correct to our best knowledge, but does not purport to be all inclusive, and shall be used only as a guide. This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. Biotium shall not be held liable for any damage resulting from handling or contact with the above product.