1. PRODUCT AND COMPANY IDENTIFICATION

Product name                     Goat Anti-Human IgG Fc (HRP) preadsorbed

Recommended use                  For research use only

Supplier Address                  Abcam Inc
                                1 Kendall Square, Ste 341
                                Cambridge, MA 02139-1517
                                USA
                                Tel: (617)225-2272 or 888-77-ABCAM (22226) (US toll free)
                                Fax: (866) 739-9884 or (866) 457-9616 (both US toll free)

E-mail address                    technical@abcam.com

Emergency telephone              +1 866 928 0789 (Toll free) /+1 202 464 2554

2. HAZARDS IDENTIFICATION

GHS - Classification             

<table>
<thead>
<tr>
<th>Ozone</th>
<th>Not applicable</th>
</tr>
</thead>
</table>

GHS Label elements, including precautionary statements

Not dangerous

Precautionary Statements - EU (§28, 1272/2008)

P280 - Wear protective gloves/ protective clothing

Other information

No information available
3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>Classification (Reg. 1272/2008)</th>
</tr>
</thead>
</table>
| 5-Chloro-2-methyl-3-isothiazolone     | 26172-55-4 | <0.1     | STOT SE 3 (H335)  
|                                       |          |          | Skin Dam. 1B (H314)  
|                                       |          |          | Eye Dam. 1 (H318)  
|                                       |          |          | Skin Sens. 1 (H317)  
|                                       |          |          | Acute Tox. 3 (H301)  
|                                       |          |          | Acute Tox. 3 (H311)  
|                                       |          |          | Aquatic Acute 1 (H400)                                              |
| 2-methyl-4-isothiazolin-3-one         | 2682-20-4 | <0.1     | STOT SE 3 (H335)  
|                                       |          |          | Skin Dam. 1B (H314)  
|                                       |          |          | Eye Dam. 1 (H318)  
|                                       |          |          | Skin Sens. 1 (H317)  
|                                       |          |          | Acute Tox. 3 (H301)  
|                                       |          |          | Acute Tox. 3 (H311)  
|                                       |          |          | Aquatic Acute 1 (H400)                                              |

For the full text of the H-Statements mentioned in this Section, see Section 16

4. FIRST AID MEASURES

Eye contact  Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes.

Skin contact  Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Inhalation  Move to fresh air.

Ingestion  Clean mouth with water. Drink plenty of water.

Notes to physician  Treat symptomatically. May cause sensitization of susceptible persons.

5. FIRE-FIGHTING MEASURES

Flammable properties  Not flammable.

Flash point  not determined

Suitable extinguishing media  Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Explosion Data

Sensitivity to Mechanical Impact  None.

Sensitivity to Static Discharge  None.

Specific hazards arising from the chemical  Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact.

Protective equipment and precautions for firefighters  As in any fire, wear self-contained breathing apparatus, pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear to prevent contact with skin and eyes.
6. ACCIDENTAL RELEASE MEASURES

Personal precautions
Use personal protective equipment. Avoid contact with the skin and the eyes. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Environmental precautions
Try to prevent the material from entering drains or water courses.

Methods for containment
Prevent further leakage or spillage if safe to do so.

Methods for cleaning up
Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. After cleaning, flush away traces with water. Prevent product from entering drains. Dam up.

7. HANDLING AND STORAGE

Advice on safe handling
Ensure adequate ventilation. Wear personal protective equipment. Use only in area provided with appropriate exhaust ventilation. Do not breathe vapors or spray mist.

Technical measures/Storage conditions

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines
This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering measures
Showers
Eyewash stations
Ventilation systems

Personal protective equipment

Eye/face protection
Tightly fitting safety goggles. Face-shield.

Skin and body protection
Long sleeved clothing. Protective gloves.

Respiratory protection
If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene measures
When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>No information available.</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No information available.</td>
</tr>
<tr>
<td>pH</td>
<td>No information available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No information available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No information available</td>
</tr>
<tr>
<td>Melting point/range</td>
<td>No information available</td>
</tr>
<tr>
<td>Explosion limits</td>
<td>No information available</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>No data available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No data available</td>
</tr>
<tr>
<td>Odor</td>
<td>No information available</td>
</tr>
<tr>
<td>Physical State @20°C</td>
<td>No information available</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No information available</td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td>No information available</td>
</tr>
<tr>
<td>Solubility</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor Pressure @20°C (kPa)</td>
<td>No information available</td>
</tr>
<tr>
<td>VOC Content(%)</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>
10. STABILITY AND REACTIVITY

Stability
Stable under recommended storage conditions.

Incompatible products
None known based on information supplied.

Conditions to avoid
None known based on information supplied.

Hazardous decomposition products
None known based on information supplied.

Hazardous polymerization
Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product Information
Toxic by inhalation, in contact with skin and/or if swallowed. Irritating to skin, eyes and/or respiratory tract. May cause sensitization of susceptible persons.

Inhalation
Toxic by inhalation. May cause irritation of respiratory tract.

Eye contact
Avoid contact with eyes. May cause irritation.

Ingestion
Toxic if swallowed. Ingestion may cause irritation to mucous membranes.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral (Rat)</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation (Rat, 4 h)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5-Chloro-2-methyl-3-isothiazolone</td>
<td>481 mg/kg</td>
<td></td>
<td>1.25 mg/l</td>
</tr>
</tbody>
</table>

Chronic toxicity

Chronic toxicity
Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure.

carcinogenicity
Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Sensitization
As a precaution, the product should be treated as a sensitizer.

Target Organ Effects
None known.

12. ECOLOGICAL INFORMATION

Ecotoxicity
The environmental impact of this product has not been fully investigated.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to algae</th>
<th>Toxicity to fish</th>
<th>Toxicity to microorganisms</th>
<th>Toxicity to daphnia and other aquatic invertebrates</th>
</tr>
</thead>
<tbody>
<tr>
<td>5-Chloro-2-methyl-3-isothiazolone</td>
<td>EC50 (Static)</td>
<td>LC50 (Static)</td>
<td>EC50 (Flow-through)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Skeletonema costatum</td>
<td>Cyprinodon variegatus</td>
<td>Daphnia magna</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(Marine diatom):</td>
<td>(Sheephead minnow):</td>
<td>(Water flea):</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0.021 mg/l (72 h)</td>
<td>0.36 mg/l (96 h)</td>
<td>0.12 - 0.3 mg/l (48 h)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>EC50 (Static)</td>
<td>LC50 (Semi-static)</td>
<td>EC50 (Static)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Anabaena flos-aquae</td>
<td>Oncorhynchus mykiss</td>
<td>Daphnia magna</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(Blue-green algae):</td>
<td>(Rainbow trout):</td>
<td>(Water flea):</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0.31 mg/l (120 h)</td>
<td>1.6 mg/l (96 h)</td>
<td>0.71 - 0.99 mg/l (48 h)</td>
<td></td>
</tr>
</tbody>
</table>
### 13. DISPOSAL CONSIDERATIONS

**Waste disposal methods**
This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated packaging**
Do not re-use empty containers.

### 14. TRANSPORT INFORMATION

- **DOT**
  Not dangerous goods
- **IATA**
  Not dangerous goods
- **ADR**
  Not dangerous goods

### 15. REGULATORY INFORMATION

#### U.S. Federal Regulations

**SARA 313**
Section 3T3 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Yes/No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Health Hazard</td>
<td>yes</td>
</tr>
<tr>
<td>Chronic Health Hazard</td>
<td>no</td>
</tr>
<tr>
<td>Fire Hazard</td>
<td>no</td>
</tr>
<tr>
<td>Sudden Release of Pressure Hazard</td>
<td>no</td>
</tr>
<tr>
<td>Reactive Hazard</td>
<td>no</td>
</tr>
</tbody>
</table>

**Clean Water Act**
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

#### U.S. State Regulations

**California Proposition 65**
This product does not contain any Proposition 65 chemicals.

#### U.S. State Right-to-Know Regulations

#### International Regulations
WHMIS Note: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**16. OTHER INFORMATION**

Full text of H-Statements referred to under sections 2 and 3
H335 - May cause respiratory irritation H314 - Causes severe skin burns and eye damage H318 - Causes serious eye damage H317 - May cause an allergic skin reaction H301 - Toxic if swallowed H311 - Toxic in contact with skin H400 - Very toxic to aquatic life

Revision Date 16-Sep-2019
Revision Note No information available.

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of MSDS