

### Kit Summary

**Product Code(s)** AB190525  
**Product name** Guinea Pig IgG ELISA Kit

#### 5X Diluent Concentrate

| Chemical Name | EC-No | CAS-No     | Weight % | Classification (Reg. 1272/2008)  | REACH Registration Number |
|---------------|-------|------------|----------|--|---------------------------|
| Proclin       | -     | 55965-84-9 | 0.25     | Skin Corr. 1B (H314)<br>Skin Sens. 1 (H317)<br>Acute Tox. 3 (H301)<br>Acute Tox. 3 (H311)<br>Acute Tox. 3 (H331)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410) | -                         |

#### 20X Wash Buffer Concentrate

| Chemical Name | EC-No | CAS-No     | Weight % | Classification (Reg. 1272/2008)  | REACH Registration Number |
|---------------|-------|------------|----------|--|---------------------------|
| Proclin       | -     | 55965-84-9 | 0.05     | Skin Corr. 1B (H314)<br>Skin Sens. 1 (H317)<br>Acute Tox. 3 (H301)<br>Acute Tox. 3 (H311)<br>Acute Tox. 3 (H331)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410) | -                         |

#### Stop Solution

| Chemical Name  | EC-No     | CAS-No    | Weight % | Classification (Reg. 1272/2008) | REACH Registration Number |
|----------------|-----------|-----------|----------|---------------------------------|---------------------------|
| Sulphuric acid | 231-639-5 | 7664-93-9 | 2.94     | Skin Corr. 1A (H314)            | -                         |

#### TMB Substrate

| Chemical Name | EC-No | CAS-No     | Weight % | Classification (Reg. 1272/2008)                                 | REACH Registration Number |
|---------------|-------|------------|----------|---|---------------------------|
| TMB           | -     | 54827-17-7 | 0.05     | STOT SE 3 (H335)<br>Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319) | -                         |

#### IgG Guinea pig Calibrator (lyophilized)

| Chemical Name | EC-No     | CAS-No     | Weight % | Classification (Reg. 1272/2008)  | REACH Registration Number |
|---------------|-----------|------------|----------|--|---------------------------|
| Sodium azide  | 247-852-1 | 26628-22-8 | 0.1      | Acute Tox. 2 (H300)<br>Acute Tox. 1 (H310)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410)<br>(EUH032) | -                         |

#### IgG Guinea pig HRP Conjugate

| Chemical Name | EC-No     | CAS-No  | Weight % | Classification (Reg. 1272/2008)   | REACH Registration Number |
|---------------|-----------|---------|----------|---|---------------------------|
| Thimerosal    | 200-210-4 | 54-64-8 | 0.004    | Acute Tox. 2 (H300)<br>Acute Tox. 1 (H310)<br>Acute Tox. 2 (H330)<br>STOT RE 2 (H373)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410) | -                         |

### GHS / CLP - GHS - Classification



#### Signal Word

Warning

#### Hazard statements

H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H317 - May cause an allergic skin reaction  
H412 - Harmful to aquatic life with long lasting effects

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

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P337 + P313 - If eye irritation persists: Get medical advice/ attention  
P333 + P313 - If skin irritation or rash occurs: Get medical advice/ attention  
P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray  
P272 - Contaminated work clothing should not be allowed out of the workplace  
P264 - Wash face, hands and any exposed skin thoroughly after handling  
P273 - Avoid release to the environment  
P280 - Wear protective gloves/ eye protection/ face protection  
P501 - Dispose of contents/ container to an approved waste disposal plant  
P362 - Take off contaminated clothing and wash before reuse

### 2.3 Other information

A safety datasheet follows for all potentially hazardous components – all other components are non-hazardous.

### TRANSPORT INFORMATION

DOT Not dangerous goods

IATA Not dangerous goods

ADR Not dangerous goods

# Safety Data Sheet

Issuing date No data available

Revision Date 12-Oct-2017

Version 2

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name** 5X Diluent Concentrate

**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** Tel: (617)225-2272 or 888-77-ABCAM (22226) (US toll free) - Monday-Friday 8am-9pm EST

## 2. HAZARDS IDENTIFICATION

### GHS - Classification

|                                   |            |
|-----------------------------------|------------|
| Skin corrosion/irritation         | Category 2 |
| Serious eye damage/eye irritation | Category 2 |
| Skin sensitization                | Category 1 |

### GHS Label elements, including precautionary statements



### Signal Word

Warning

### Hazard statements

H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation

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

P333 + P313 - If skin irritation or rash occurs: Get medical advice/ attention

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/ attention

P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray

P280 - Wear protective gloves/ eye protection/ face protection

P272 - Contaminated work clothing should not be allowed out of the workplace

P362 - Take off contaminated clothing and wash before reuse

P264 - Wash face, hands and any exposed skin thoroughly after handling

P501 - Dispose of contents/ container to an approved waste disposal plant

**Other information**

No information available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**3.1 Substances**

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

### 4. FIRST AID MEASURES

|                           |   |
|---------------------------|---|
| <b>General advice</b>     | If symptoms persist, call a physician.  |
| <b>Eye contact</b>        | Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If symptoms persist, call a physician.   |
| <b>Skin contact</b>       | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician. May cause an allergic skin reaction. |
| <b>Inhalation</b>         | Move to fresh air. If symptoms persist, call a physician.   |
| <b>Ingestion</b>          | Rinse mouth. If symptoms persist, call a physician.   |
| <b>Notes to physician</b> | May cause sensitization of susceptible persons. Treat symptomatically.  |

### 5. FIRE-FIGHTING MEASURES

|   |   |
|---|---|
| <b>Flammable properties</b>             | Not flammable.  |
| <b>Flash point</b>                      | not determined  |
| <b>Suitable extinguishing media</b>     | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| <b><u>Explosion Data</u></b>            |   |
| <b>Sensitivity to Mechanical Impact</b> | None.   |
| <b>Sensitivity to Static Discharge</b>  | None.   |

|  |  |
|--|--|
| <b>Specific hazards arising from the chemical</b>            | 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 |
| <b>Protective equipment and precautions for firefighters</b> | 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**

|                                  |   |
|----------------------------------|---|
| <b>Personal precautions</b>      | 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.                          |
| <b>Environmental precautions</b> | Prevent further leakage or spillage if safe to do so. Try to prevent the material from entering drains or water courses.  |
| <b>Methods for containment</b>   | Prevent further leakage or spillage if safe to do so.   |
| <b>Methods for cleaning up</b>   | 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**

|  |   |
|--|---|
| <b>Advice on safe handling</b>               | Ensure adequate ventilation. Wear personal protective equipment. Use only in area provided with appropriate exhaust ventilation. Do not breathe vapors or spray mist.   |
| <b>Technical measures/Storage conditions</b> | Keep out of the reach of children. Keep container tightly closed. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers. |

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

|                                      |   |
|--------------------------------------|---|
| <b>Exposure Guidelines</b>           | This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.   |
| <b>Engineering measures</b>          | Showers<br>Eyewash stations<br>Ventilation systems  |
| <b>Personal protective equipment</b> |   |
| <b>Eye/face protection</b>           | Tightly fitting safety goggles. Face-shield.  |
| <b>Skin and body protection</b>      | No special protective equipment required.   |
| <b>Respiratory protection</b>        | 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. |
| <b>Hygiene measures</b>              | 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

|                                  |                           |                                    |                           |
|----------------------------------|---------------------------|------------------------------------|---------------------------|
| <b>Appearance</b>                | No information available. | <b>Odor</b>                        | No information available. |
| <b>Odor Threshold</b>            | No information available  | <b>Physical State @20°C</b>        | No information available  |
| <b>pH</b>                        | No information available  | <b>Autoignition temperature</b>    | No information available  |
| <b>Flash point</b>               | No information available  | <b>Boiling point/boiling range</b> | No information available  |
| <b>Decomposition temperature</b> | No information available  | <b>Flammability Limits in Air</b>  | No information available  |
| <b>Melting point/range</b>       | No information available  | <b>solubility</b>                  | No information available. |
| <b>Explosion limits</b>          | No information available  | <b>Vapor Pressure @20°C (kPa)</b>  | No information available  |
| <b>Specific Gravity</b>          | No data available         | <b>VOC Content(%)</b>              | Not applicable            |
| <b>Evaporation rate</b>          | No information available  |                                    |                           |
| <b>Vapor density</b>             | No data available         |                                    |                           |

## 10. STABILITY AND REACTIVITY

|   |  |
|---|--|
| <b>Stability</b>                        | Stable under recommended storage conditions. |
| <b>Incompatible products</b>            | None known based on information supplied.    |
| <b>Conditions to avoid</b>              | None known based on information supplied.    |
| <b>Hazardous decomposition products</b> | None known based on information supplied.    |
| <b>Hazardous polymerization</b>         | Hazardous polymerization does not occur.     |

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

|                            |   |
|----------------------------|---|
| <b>Product Information</b> | Irritating to skin, eyes and / or respiratory tract. May cause sensitization of susceptible persons |
| <b>Inhalation</b>          | May cause irritation of respiratory tract   |
| <b>Eye contact</b>         | May cause irritation  |
| <b>Skin contact</b>        | May cause irritation  |
| <b>Ingestion</b>           | Ingestion may cause irritation to mucous membranes  |

| Chemical Name | LD50 Oral        | LD50 Dermal | LC50 Inhalation |
|---------------|------------------|-------------|-----------------|
| Proclin       | 53 mg/kg ( Rat ) |             |                 |

### Chronic toxicity

|                             |   |
|-----------------------------|---|
| <b>Chronic toxicity</b>     | Repeated contact may cause allergic reactions in very susceptible persons Avoid repeated exposure |
| <b>Sensitization</b>        | As a precaution the product should be treated as a sensitizer.                                    |
| <b>Target Organ Effects</b> | None known.   |

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**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.

**California Hazardous Waste Codes** 561

**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 313 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**

|  |     |
|--|-----|
| <b>Acute Health Hazard</b>               | yes |
| <b>Chronic Health Hazard</b>             | no  |
| <b>Fire Hazard</b>                       | no  |
| <b>Sudden Release of Pressure Hazard</b> | no  |
| <b>Reactive Hazard</b>                   | no  |

**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**

H301 - Toxic if swallowed H311 - Toxic in contact with skin H314 - Causes severe skin burns and eye damage H315 - Causes skin irritation H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation H331 - Toxic if inhaled H400 - Very toxic to aquatic life H410 - Very toxic to aquatic life with long lasting effects

**Hazard statements**

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

**Revision Date** 12-Oct-2017

**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**



# Safety Data Sheet

Issuing date No data available

Revision Date 12-Oct-2017

Version 6

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name** 20X Wash Buffer Concentrate

**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** Tel: (617)225-2272 or 888-77-ABCAM (22226) (US toll free) - Monday-Friday 8am-9pm EST

## 2. HAZARDS IDENTIFICATION

### GHS - Classification

|                    |            |
|--------------------|------------|
| Skin sensitization | Category 1 |
|--------------------|------------|

### GHS Label elements, including precautionary statements



### Signal Word

Warning

### Hazard statements

H317 - May cause an allergic skin reaction

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

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water  
P333 + P313 - If skin irritation or rash occurs: Get medical advice/ attention  
P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray  
P272 - Contaminated work clothing should not be allowed out of the workplace  
P280 - Wear protective gloves/ eye protection/ face protection  
P363 - Wash contaminated clothing before reuse  
P501 - Dispose of contents/ container to an approved waste disposal plant

### Other information

No information available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

| Chemical Name | CAS-No     | Weight % | Classification (Reg. 1272/2008)  |
|---------------|------------|----------|--|
| Proclin       | 55965-84-9 | <0.1     | Skin Corr. 1B (H314)<br>Skin Sens. 1 (H317)<br>Acute Tox. 3 (H301)<br>Acute Tox. 3 (H311)<br>Acute Tox. 3 (H331)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410) |

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

### 4. FIRST AID MEASURES

|                           |   |
|---------------------------|---|
| <b>General advice</b>     | If symptoms persist, call a physician.  |
| <b>Eye contact</b>        | Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes.  |
| <b>Skin contact</b>       | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction. If symptoms persist, call a physician. |
| <b>Inhalation</b>         | Move to fresh air.  |
| <b>Ingestion</b>          | Clean mouth with water. Drink plenty of water.  |
| <b>Notes to physician</b> | May cause sensitization of susceptible persons. Treat symptomatically.  |

### 5. FIRE-FIGHTING MEASURES

|  |  |
|--|--|
| <b>Flammable properties</b>                                  | Not flammable.   |
| <b>Flash point</b>   | not determined   |
| <b>Suitable extinguishing media</b>                          | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  |
| <b>Explosion Data</b>  |  |
| <b>Sensitivity to Mechanical Impact</b>                      | None.  |
| <b>Sensitivity to Static Discharge</b>                       | None.  |
| <b>Specific hazards arising from the chemical</b>            | 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 |
| <b>Protective equipment and precautions for firefighters</b> | 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

|                                  |   |
|----------------------------------|---|
| <b>Personal precautions</b>      | Use personal protective equipment. Avoid contact with the skin and the eyes.  |
| <b>Environmental precautions</b> | Try to prevent the material from entering drains or water courses.  |
| <b>Methods for containment</b>   | Prevent further leakage or spillage if safe to do so.   |
| <b>Methods for cleaning up</b>   | 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. |

## 7. HANDLING AND STORAGE

|  |  |
|--|--|
| <b>Advice on safe handling</b>               | Ensure adequate ventilation. Wear personal protective equipment.   |
| <b>Technical measures/Storage conditions</b> | Keep out of the reach of children. Keep container tightly closed. Keep containers tightly closed in a cool, well-ventilated place. |

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

|                                      |   |
|--------------------------------------|---|
| <b>Exposure Guidelines</b>           | This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.   |
| <b>Engineering measures</b>          | Showers<br>Eyewash stations<br>Ventilation systems  |
| <b>Personal protective equipment</b> |   |
| <b>Eye/face protection</b>           | Tightly fitting safety goggles.   |
| <b>Skin and body protection</b>      | No special protective equipment required.   |
| <b>Respiratory protection</b>        | 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. |
| <b>Hygiene measures</b>              | When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use.  |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                  |                           |                                    |                           |
|----------------------------------|---------------------------|------------------------------------|---------------------------|
| <b>Appearance</b>                | No information available. | <b>Odor</b>                        | No information available. |
| <b>Odor Threshold</b>            | No information available  | <b>Physical State @20°C</b>        | No information available  |
| <b>pH</b>                        | No information available  | <b>Autoignition temperature</b>    | No information available  |
| <b>Flash point</b>               | No information available  | <b>Boiling point/boiling range</b> | No information available  |
| <b>Decomposition temperature</b> | No information available  | <b>Flammability Limits in Air</b>  | No information available  |
| <b>Melting point/range</b>       | No information available  | <b>solubility</b>                  | No information available. |
| <b>Explosion limits</b>          | No information available  | <b>Vapor Pressure @20°C (kPa)</b>  | No information available  |
| <b>Specific Gravity</b>          | No data available         | <b>VOC Content(%)</b>              | Not applicable            |
| <b>Evaporation rate</b>          | No information available  |                                    |                           |
| <b>Vapor density</b>             | No data available         |                                    |                           |

## 10. STABILITY AND REACTIVITY

|   |  |
|---|--|
| <b>Stability</b>                        | Stable under recommended storage conditions. |
| <b>Incompatible products</b>            | None known based on information supplied.    |
| <b>Conditions to avoid</b>              | None known based on information supplied.    |
| <b>Hazardous decomposition products</b> | None known based on information supplied.    |
| <b>Hazardous polymerization</b>         | Hazardous polymerization does not occur.     |

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

|                            |  |
|----------------------------|--|
| <b>Product Information</b> | May cause sensitization of susceptible persons |
|----------------------------|--|

### Chronic toxicity

|                         |   |
|-------------------------|---|
| <b>Chronic toxicity</b> | Repeated contact may cause allergic reactions in very susceptible persons Avoid repeated exposure |
|-------------------------|---|

|                      |  |
|----------------------|--|
| <b>Sensitization</b> | As a precaution the product should be treated as a sensitizer. |
|----------------------|--|

|                             |             |
|-----------------------------|-------------|
| <b>Target Organ Effects</b> | None known. |
|-----------------------------|-------------|

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

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

## 13. DISPOSAL CONSIDERATIONS

|                               |   |
|-------------------------------|---|
| <b>Waste disposal methods</b> | 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. |
| <b>Contaminated packaging</b> | Do not re-use empty containers.   |

## 14. TRANSPORT INFORMATION

|                    |                     |
|--------------------|---------------------|
| <b><u>DOT</u></b>  | Not dangerous goods |
| <b><u>IATA</u></b> | Not dangerous goods |
| <b><u>ADR</u></b>  | Not dangerous goods |

## 15. REGULATORY INFORMATION

### U.S. Federal Regulations

#### **SARA 313**

Section 313 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**

|  |     |
|--|-----|
| <b>Acute Health Hazard</b>               | yes |
| <b>Chronic Health Hazard</b>             | no  |
| <b>Fire Hazard</b>                       | no  |
| <b>Sudden Release of Pressure Hazard</b> | no  |
| <b>Reactive Hazard</b>                   | no  |

#### **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**

H314 - Causes severe skin burns and eye damage H317 - May cause an allergic skin reaction H400 - Very toxic to aquatic life  
H410 - Very toxic to aquatic life with long lasting effects H301 - Toxic if swallowed H311 - Toxic in contact with skin H331 - Toxic if inhaled

#### **Hazard statements**

H317 - May cause an allergic skin reaction

**Revision Date** 12-Oct-2017

**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**

# Safety Data Sheet

Issuing date No data available

Revision Date 12-Oct-2017

Version 6

## 1. PRODUCT AND COMPANY IDENTIFICATION

|                            |   |
|----------------------------|---|
| <b>Product name</b>        | <b>Stop Solution</b>  |
| <b>Recommended use</b>     | For research use only   |
| <b>Supplier Address</b>    | Abcam Inc<br>1 Kendall Square, Ste 341<br>Cambridge, MA 02139-1517<br>USA<br>Tel: (617)225-2272 or 888-77-ABCAM (22226) (US toll free)<br>Fax: (866) 739-9884 or (866) 457-9616 (both US toll free) |
| <b>E-mail address</b>      | technical@abcam.com   |
| <b>Emergency telephone</b> | Tel: (617)225-2272 or 888-77-ABCAM (22226) (US toll free) - Monday-Friday 8am-9pm EST   |

## 2. HAZARDS IDENTIFICATION

### GHS - Classification

|       |                |
|-------|----------------|
| Ozone | Not applicable |
|-------|----------------|

### GHS Label elements, including precautionary statements

### Other information

No information available

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

| Chemical Name  | CAS-No    | Weight % | Classification (Reg. 1272/2008) |
|----------------|-----------|----------|---------------------------------|
| Sulphuric acid | 7664-93-9 | 1-5      | Skin Corr. 1A (H314)            |

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

#### 4. FIRST AID MEASURES

|                           |  |
|---------------------------|--|
| <b>Eye contact</b>        | Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. |
| <b>Skin contact</b>       | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.                                    |
| <b>Inhalation</b>         | Move to fresh air.   |
| <b>Ingestion</b>          | Clean mouth with water. Drink plenty of water.   |
| <b>Notes to physician</b> | Treat symptomatically.   |

#### 5. FIRE-FIGHTING MEASURES

|  |  |
|--|--|
| <b>Flammable properties</b>                                  | Not flammable.   |
| <b>Flash point</b>   | not determined   |
| <b>Suitable extinguishing media</b>                          | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  |
| <b>Explosion Data</b>  |  |
| <b>Sensitivity to Mechanical Impact</b>                      | None.  |
| <b>Sensitivity to Static Discharge</b>                       | None.  |
| <b>Protective equipment and precautions for firefighters</b> | 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

|                                  |  |
|----------------------------------|--|
| <b>Personal precautions</b>      | Ensure adequate ventilation.                                       |
| <b>Environmental precautions</b> | Try to prevent the material from entering drains or water courses. |
| <b>Methods for containment</b>   | Prevent further leakage or spillage if safe to do so.              |
| <b>Methods for cleaning up</b>   | Pick up and transfer to properly labeled containers.               |

#### 7. HANDLING AND STORAGE

|  |  |
|--|--|
| <b>Advice on safe handling</b>               | Handle in accordance with good industrial hygiene and safety practice.   |
| <b>Technical measures/Storage conditions</b> | Keep containers tightly closed in a dry, cool and well-ventilated place. |

## 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.

| Chemical Name               | ACGIH TLV                                    | OSHA PEL   | NIOSH IDLH   |
|-----------------------------|--|--|--|
| Sulphuric acid<br>7664-93-9 | TWA: 0.2 mg/m <sup>3</sup> thoracic fraction | TWA: 1 mg/m <sup>3</sup><br>(vacated) TWA: 1 mg/m <sup>3</sup> | IDLH: 15 mg/m <sup>3</sup><br>TWA: 1 mg/m <sup>3</sup> |

NIOSH IDLH: *Immediately Dangerous to Life or Health*

**Other Exposure Guidelines** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

**Engineering measures** Showers  
Eyewash stations  
Ventilation systems

### Personal protective equipment

**Eye/face protection**

No special protective equipment required.

**Skin and body protection**

No special protective equipment required.

**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** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                  |                           |                                    |                           |
|----------------------------------|---------------------------|------------------------------------|---------------------------|
| <b>Appearance</b>                | No information available. | <b>Odor</b>                        | No information available. |
| <b>Odor Threshold</b>            | No information available  | <b>Physical State @20°C</b>        | No information available  |
| <b>pH</b>                        | No information available  | <b>Autoignition temperature</b>    | No information available  |
| <b>Flash point</b>               | No information available  | <b>Boiling point/boiling range</b> | No information available  |
| <b>Decomposition temperature</b> | No information available  | <b>Flammability Limits in Air</b>  | No information available  |
| <b>Melting point/range</b>       | No information available  | <b>solubility</b>                  | No information available. |
| <b>Explosion limits</b>          | No information available  | <b>Vapor Pressure @20°C (kPa)</b>  | No information available  |
| <b>Specific Gravity</b>          | No data available         | <b>VOC Content(%)</b>              | Not applicable            |
| <b>Evaporation rate</b>          | No information available  |                                    |                           |
| <b>Vapor density</b>             | No data available         |                                    |                           |

## 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** Product does not present an acute toxicity hazard based on known or supplied information

| Chemical Name  | LD50 Oral          | LD50 Dermal | LC50 Inhalation                                       |
|----------------|--------------------|-------------|---|
| Sulphuric acid | 2140 mg/kg ( Rat ) |             | 510 mg/m <sup>3</sup> ( Rat ) 2 h 347 ppm ( Rat ) 1 h |

### Chronic toxicity

#### carcinogenicity

This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B)

| Chemical Name  | ACGIH | IARC    | NTP   | OSHA |
|----------------|-------|---------|-------|------|
| Sulphuric acid | A2    | Group 1 | Known | X    |

**ACGIH: (American Conference of Governmental Industrial Hygienists)**

A2 - Suspected Human Carcinogen

**IARC: (International Agency for Research on Cancer)**

Group 1 - Carcinogenic to Humans

**NTP: (National Toxicity Program)**

Known - Known Carcinogen

**OSHA: (Occupational Safety & Health Administration)**

X - Present

#### Target Organ Effects

Eyes. Respiratory system. Skin. Teeth.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

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

| Chemical Name  | Toxicity to algae | Toxicity to fish                             | Toxicity to microorganisms | Toxicity to daphnia and other aquatic invertebrates |
|----------------|-------------------|--|----------------------------|---|
| Sulphuric acid |                   | 500: 96 h Brachydanio rerio mg/L LC50 static |                            | 29: 24 h Daphnia magna mg/L EC50                    |

## 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.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

| Chemical Name  | California Hazardous Waste Status |
|----------------|-----------------------------------|
| Sulphuric acid | Toxic Corrosive                   |

## 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 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

| Chemical Name  | CAS-No    | Weight % | SARA 313 - Threshold Values % |
|----------------|-----------|----------|-------------------------------|
| Sulphuric acid | 7664-93-9 | 2.89     | 1.0                           |

#### **SARA 311/312 Hazard Categories**

|  |    |
|--|----|
| <b>Acute Health Hazard</b>               | no |
| <b>Chronic Health Hazard</b>             | no |
| <b>Fire Hazard</b>                       | no |
| <b>Sudden Release of Pressure Hazard</b> | no |
| <b>Reactive Hazard</b>                   | no |

#### **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).

| Chemical Name  | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|----------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Sulphuric acid | 1000 lb                     |                        |                           | X                          |

#### **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.

| Chemical Name  | Hazardous Substances RQs | Extremely Hazardous Substances RQs | RQ                                     |
|----------------|--------------------------|------------------------------------|--|
| Sulphuric acid | 1000 lb                  | 1000 lb                            | RQ 1000 lb final RQ RQ 454 kg final RQ |

### U.S. State Regulations

#### **California Proposition 65**

This product contains the following Proposition 65 chemicals:

| Chemical Name  | CAS-No    | California Prop. 65 |
|----------------|-----------|---------------------|
| Sulphuric acid | 7664-93-9 | Carcinogen          |

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

| Chemical Name  | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|----------------|---------------|------------|--------------|----------|--------------|
| Sulphuric acid | X             | X          | X            | X        | X            |

### International Regulations

| Chemical Name  | Carcinogen Status | Exposure limits                 |
|----------------|-------------------|---------------------------------|
| Sulphuric acid | A2                | Mexico: TWA 1 mg/m <sup>3</sup> |

---

**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

H314 - Causes severe skin burns and eye damage

**Revision Date** 12-Oct-2017  
**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**

# Safety Data Sheet

Issuing date No data available

Revision Date 12-Oct-2017

Version 6

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name** IgG Guinea pig Calibrator (lyophilized)

**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** Tel: (617)225-2272 or 888-77-ABCAM (22226) (US toll free) - Monday-Friday 8am-9pm EST

## 2. HAZARDS IDENTIFICATION

### GHS - Classification

|       |                |
|-------|----------------|
| Ozone | Not applicable |
|-------|----------------|

### GHS Label elements, including precautionary statements

Not dangerous

### Other information

No information available

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

| Chemical Name | CAS-No     | Weight % | Classification (Reg. 1272/2008)  |
|---------------|------------|----------|--|
| Sodium azide  | 26628-22-8 | 0.1-1    | Acute Tox. 2 (H300)<br>Acute Tox. 1 (H310)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410)<br>(EUH032) |

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

#### 4. FIRST AID MEASURES

|                           |  |
|---------------------------|--|
| <b>Eye contact</b>        | Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. |
| <b>Skin contact</b>       | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.                                    |
| <b>Inhalation</b>         | Move to fresh air.   |
| <b>Ingestion</b>          | Clean mouth with water. Drink plenty of water.   |
| <b>Notes to physician</b> | Treat symptomatically.   |

#### 5. FIRE-FIGHTING MEASURES

|  |  |
|--|--|
| <b>Flammable properties</b>                                  | Not flammable.   |
| <b>Flash point</b>   | not determined   |
| <b>Suitable extinguishing media</b>                          | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  |
| <b>Explosion Data</b>  |  |
| <b>Sensitivity to Mechanical Impact</b>                      | None.  |
| <b>Sensitivity to Static Discharge</b>                       | None.  |
| <b>Protective equipment and precautions for firefighters</b> | 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

|                                  |   |
|----------------------------------|---|
| <b>Personal precautions</b>      | Ensure adequate ventilation.  |
| <b>Environmental precautions</b> | Try to prevent the material from entering drains or water courses.  |
| <b>Methods for containment</b>   | Prevent further leakage or spillage if safe to do so.   |
| <b>Methods for cleaning up</b>   | Cover liquid spill with sand, earth or other noncombustible absorbent material. Cover powder spill with plastic sheet or tarp to minimize spreading. Pick up and transfer to properly labeled containers. |

#### 7. HANDLING AND STORAGE

|  |   |
|--|---|
| <b>Advice on safe handling</b>               | Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Remove and wash contaminated clothing before re-use. Do not breathe vapors or spray mist. Do not eat, drink or smoke when using this product. |
| <b>Technical measures/Storage conditions</b> | Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.  |

## 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.

| Chemical Name              | ACGIH TLV  | OSHA PEL  | NIOSH IDLH  |
|----------------------------|--|---|---|
| Sodium azide<br>26628-22-8 | Ceiling: 0.29 mg/m <sup>3</sup> NaN <sub>3</sub><br>Ceiling: 0.11 ppm Hydrazoic acid vapor | (vacated) S*<br>(vacated) Ceiling: 0.1 ppm HN <sub>3</sub><br>(vacated) Ceiling: 0.3 mg/m <sup>3</sup> NaN <sub>3</sub> | Ceiling: 0.1 ppm HN <sub>3</sub><br>Ceiling: 0.3 mg/m <sup>3</sup> NaN <sub>3</sub> |

*NIOSH IDLH: Immediately Dangerous to Life or Health*

**Other Exposure Guidelines** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

**Engineering measures**  
Showers  
Eyewash stations  
Ventilation systems

### Personal protective equipment

**Eye/face protection**

Tightly fitting safety goggles.

**Skin and body protection**

No special protective equipment required.

**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** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                  |                           |                                    |                           |
|----------------------------------|---------------------------|------------------------------------|---------------------------|
| <b>Appearance</b>                | No information available. | <b>Odor</b>                        | No information available. |
| <b>Odor Threshold</b>            | No information available  | <b>Physical State @20°C</b>        | No information available  |
| <b>pH</b>                        | No information available  | <b>Autoignition temperature</b>    | No information available  |
| <b>Flash point</b>               | No information available  | <b>Boiling point/boiling range</b> | No information available  |
| <b>Decomposition temperature</b> | No information available  | <b>Flammability Limits in Air</b>  | No information available  |
| <b>Melting point/range</b>       | No information available  | <b>solubility</b>                  | No information available. |
| <b>Explosion limits</b>          | No information available  | <b>Vapor Pressure @20°C (kPa)</b>  | No information available  |
| <b>Specific Gravity</b>          | No data available         | <b>VOC Content(%)</b>              | Not applicable            |
| <b>Evaporation rate</b>          | No information available  |                                    |                           |
| <b>Vapor density</b>             | No data available         |                                    |                           |

## 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**                      Product does not present an acute toxicity hazard based on known or supplied information

| Chemical Name | LD50 Oral        | LD50 Dermal                          | LC50 Inhalation |
|---------------|------------------|--------------------------------------|-----------------|
| Sodium azide  | 27 mg/kg ( Rat ) | 50 mg/kg ( Rat ) 20 mg/kg ( Rabbit ) |                 |

**Chronic toxicity**

**Target Organ Effects**                      None known.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

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

| Chemical Name | Toxicity to algae | Toxicity to fish  | Toxicity to microorganisms | Toxicity to daphnia and other aquatic invertebrates |
|---------------|-------------------|---|----------------------------|---|
| Sodium azide  |                   | 0.8: 96 h Oncorhynchus mykiss mg/L LC50 0.7: 96 h Lepomis macrochirus mg/L LC50 5.46: 96 h Pimephales promelas mg/L LC50 flow-through |                            |   |

**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.

**US EPA Waste Number**                      P105

| Chemical Name             | RCRA - Halogenated Organic Compounds | RCRA - P Series Wastes | RCRA - F Series Wastes | RCRA - K Series Wastes |
|---------------------------|--------------------------------------|------------------------|------------------------|------------------------|
| Sodium azide - 26628-22-8 |                                      | P105                   |                        |                        |

This product contains one or more substances that are listed with the State of California as a hazardous waste.

| Chemical Name | California Hazardous Waste Status |
|---------------|-----------------------------------|
| Sodium azide  | Ignitable Reactive                |

**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 313 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**

|  |     |
|--|-----|
| <b>Acute Health Hazard</b>               | yes |
| <b>Chronic Health Hazard</b>             | no  |
| <b>Fire Hazard</b>                       | no  |
| <b>Sudden Release of Pressure Hazard</b> | no  |
| <b>Reactive Hazard</b>                   | no  |

**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.

| Chemical Name | Hazardous Substances RQs | Extremely Hazardous Substances RQs | RQ                                     |
|---------------|--------------------------|------------------------------------|--|
| Sodium azide  | 1000 lb                  | 1000 lb                            | RQ 1000 lb final RQ RQ 454 kg final RQ |

**U.S. State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

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

| Chemical Name | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|---------------|---------------|------------|--------------|----------|--------------|
| Sodium azide  | X             | X          | X            |          | X            |

**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**

H300 - Fatal if swallowed H310 - Fatal in contact with skin H400 - Very toxic to aquatic life H410 - Very toxic to aquatic life with long lasting effects

**Revision Date**

12-Oct-2017

**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**

# Safety Data Sheet

Issuing date No data available

Revision Date 12-Oct-2017

Version 6

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name** IgG Guinea pig HRP Conjugate

**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** Tel: (617)225-2272 or 888-77-ABCAM (22226) (US toll free) - Monday-Friday 8am-9pm EST

## 2. HAZARDS IDENTIFICATION

### GHS - Classification

|       |                |
|-------|----------------|
| Ozone | Not applicable |
|-------|----------------|

### GHS Label elements, including precautionary statements

Not dangerous

### Other information

No information available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

| Chemical Name | CAS-No  | Weight % | Classification (Reg. 1272/2008)   |
|---------------|---------|----------|---|
| Thimerosal    | 54-64-8 | <0.1     | Acute Tox. 2 (H300)<br>Acute Tox. 1 (H310)<br>Acute Tox. 2 (H330)<br>STOT RE 2 (H373)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410) |

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

### 4. FIRST AID MEASURES

|                           |  |
|---------------------------|--|
| <b>Eye contact</b>        | Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. |
| <b>Skin contact</b>       | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.                                    |
| <b>Inhalation</b>         | Move to fresh air.   |
| <b>Ingestion</b>          | Clean mouth with water. Drink plenty of water.   |
| <b>Notes to physician</b> | Treat symptomatically.   |

### 5. FIRE-FIGHTING MEASURES

|  |  |
|--|--|
| <b>Flammable properties</b>                                  | Not flammable.   |
| <b>Flash point</b>   | not determined   |
| <b>Suitable extinguishing media</b>                          | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  |
| <b>Explosion Data</b>  |  |
| <b>Sensitivity to Mechanical Impact</b>                      | None.  |
| <b>Sensitivity to Static Discharge</b>                       | None.  |
| <b>Protective equipment and precautions for firefighters</b> | 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

|                                  |  |
|----------------------------------|--|
| <b>Personal precautions</b>      | Ensure adequate ventilation.                                       |
| <b>Environmental precautions</b> | Try to prevent the material from entering drains or water courses. |
| <b>Methods for containment</b>   | Prevent further leakage or spillage if safe to do so.              |
| <b>Methods for cleaning up</b>   | Pick up and transfer to properly labeled containers.               |

### 7. HANDLING AND STORAGE

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice.

**Technical measures/Storage conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

## 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.

| Chemical Name         | ACGIH TLV | OSHA PEL | NIOSH IDLH   |
|-----------------------|-----------|----------|--|
| Thimerosal<br>54-64-8 |           |          | IDLH: 10 mg/m <sup>3</sup> Hg<br>Ceiling: 0.1 mg/m <sup>3</sup> Hg<br>TWA: 0.05 mg/m <sup>3</sup> except Organo<br>alkyls Hg vapor |

NIOSH IDLH: *Immediately Dangerous to Life or Health*

**Engineering measures** Showers  
Eyewash stations  
Ventilation systems

### Personal protective equipment

**Eye/face protection**

No special protective equipment required.

**Skin and body protection**

No special protective equipment required.

**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** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                  |                           |                                    |                           |
|----------------------------------|---------------------------|------------------------------------|---------------------------|
| <b>Appearance</b>                | No information available. | <b>Odor</b>                        | No information available. |
| <b>Odor Threshold</b>            | No information available  | <b>Physical State @20°C</b>        | No information available  |
| <b>pH</b>                        | No information available  | <b>Autoignition temperature</b>    | No information available  |
| <b>Flash point</b>               | No information available  | <b>Boiling point/boiling range</b> | No information available  |
| <b>Decomposition temperature</b> | No information available  | <b>Flammability Limits in Air</b>  | No information available  |
| <b>Melting point/range</b>       | No information available  | <b>solubility</b>                  | No information available. |
| <b>Explosion limits</b>          | No information available  | <b>Vapor Pressure @20°C (kPa)</b>  | No information available  |
| <b>Specific Gravity</b>          | No data available         | <b>VOC Content(%)</b>              | Not applicable            |
| <b>Evaporation rate</b>          | No information available  |                                    |                           |
| <b>Vapor density</b>             | No data available         |                                    |                           |

## 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** Product does not present an acute toxicity hazard based on known or supplied information

| Chemical Name | LD50 Oral      | LD50 Dermal | LC50 Inhalation |
|---------------|----------------|-------------|-----------------|
| Thimerosal    | 75 mg/kg (Rat) |             |                 |

### Chronic toxicity

**Target Organ Effects** None known.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

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

| Chemical Name | Toxicity to algae | Toxicity to fish  | Toxicity to microorganisms | Toxicity to daphnia and other aquatic invertebrates |
|---------------|-------------------|---|----------------------------|---|
| Thimerosal    |                   | LC50 (Static)<br><i>Ictalurus punctatus</i><br>(Channel catfish):<br>7.5 mg/l (24 h)<br><br>LC50 (Static)<br><i>Oncorhynchus mykiss</i><br>(Rainbow trout):<br>21.2 mg/l (48 h) |                            |   |

## 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 313 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**

|  |    |
|--|----|
| <b>Acute Health Hazard</b>               | no |
| <b>Chronic Health Hazard</b>             | no |
| <b>Fire Hazard</b>                       | no |
| <b>Sudden Release of Pressure Hazard</b> | no |
| <b>Reactive Hazard</b>                   | no |

**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).

| Chemical Name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Thimerosal    |                             | X                      |                           |                            |

**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 contains the following Proposition 65 chemicals:

| Chemical Name | CAS-No  | California Prop. 65 |
|---------------|---------|---------------------|
| Thimerosal    | 54-64-8 | Developmental       |

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

| Chemical Name | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|---------------|---------------|------------|--------------|----------|--------------|
| Thimerosal    |               |            | X            | X        |              |

**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**

H400 - Very toxic to aquatic life H410 - Very toxic to aquatic life with long lasting effects H300 - Fatal if swallowed H310 - Fatal in contact with skin H330 - Fatal if inhaled H373 - May cause damage to organs through prolonged or repeated exposure

**Revision Date** 12-Oct-2017  
**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**