

**SECTION 1: IDENTIFICATION**

**Product Name:** QuickQuant™ Mouse IgG Quantification Kit

**Catalog Numbers:** QQNT-030 (or QQNT-###, where ### represents the number of test strips supplied with the kit)

**Recommended Use:** Use as indicated on the Package Insert/Instructions.  
For research use only – not for diagnostic or therapeutic use

**Uses Advised Against:** Not for human or animal consumption, injection, topical or drug use

**Manufacturer:** BioAssay Works®, LLC  
10075 Tyler Place, Suite 18  
Ijamsville, MD 21754

**Product Information:** 1-301-874-8888

**Emergency Phone Number:** Contact Local Poison Control Center or 1-800-222-1222

**Transport Emergency:** CHEMTREC: 1-800-424-9300 (outside the U.S. 1-703-527-3887)

*This product should be handled by trained laboratory personnel in a laboratory environment as indicated on the Package Insert/Instructions. Not for consumption.*

**SECTION 2: HAZARD(S) IDENTIFICATION**

The lateral flow test strip assemblies supplied with this kit are exempt from OSHA regulations for an SDS requirement based on 29 CFR 1910.1200(b)(6)(v) Articles as defined in 29 CFR 1910.1200(c): Article is defined as a manufactured item other than a fluid or particle: (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g., minute or trace amounts of a hazardous chemical (as determined under paragraph (d) of this section), and does not pose a physical hazard or health risk to employees.

Therefore, this MSDS will only address the material safety of the **◆ Mouse IgG Subclass Standard, Product Number QQG1S-300 (or QQG1S-###, where ### represents the initial volume of product in the bottle/vial in µL) and the ◆ Sample Diluent Buffer, Product Number SDB-025 (or SDB-###, where ### represents the initial volume of product in the bottle/vial in mL), supplied with the kit.**

*There is no data available on toxicity, hazards, or precautions for the components of the solutions in this kit at the supplied concentrations. The following information and hazards pertain to the components in their undiluted states. The dilution of the components as supplied in the solutions of this kit mitigates their toxicity and any hazards they may present.*

**◆ Mouse IgG Subclass Standard, Product Number QQG1S-300 (QQG1S-###)**

**Classification:**

**OSHA Regulatory Status:**

A component or components of this mixture are considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**OSHA HAZARDS:** Target Organ Effect, Highly toxic by ingestion, Highly toxic by skin absorption

**Target Organs:** Heart, Central nervous system, Brain

**Other hazards which do not result in classification:** Sodium azide may react with lead and copper plumbing to form highly explosive metal azides. Sodium azide is rapidly absorbed through skin.

**GHS Classification:**

- Acute Toxicity – Oral.....Category 2
- Acute Toxicity – Dermal.....Category 1
- Acute Aquatic Toxicity .....Category 1
- Chronic Aquatic Toxicity .....Category 1
- Skin Corrosion/Irritation .....Category 2
- Serious Eye Damage/Eye Irritation.....Category 2

**Appearance:**.....Clear, colorless liquid  
**Physical State:** .....Liquid  
**Odor:**.....No information available



**Signal Word:** **DANGER**

**Hazard Statements:**

- H300 + H310 – Fatal if swallowed or in contact with skin
- H315 – Causes skin irritation
- H319 – Causes serious eye irritation
- H335 – May cause respiratory irritation
- H410 – Very toxic to aquatic life with long lasting effects
- H412 – Harmful to aquatic life with long lasting effects

**Precautionary Statements:**

- P262 – Do not get in eyes, on skin, or on clothing
- P264 – Wash face, hands and any exposed skin thoroughly after handling
- P270 – Do not eat, drink or smoke when using this product
- P271 – Use only outdoors or in a well-ventilated area
- P273 – Avoid release to the environment
- P280 – Wear protective gloves/protective clothing/eye protection/face protection
- P302 + P352 – IF ON SKIN: Wash with plenty of soap and water
- P304 + P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- P305 +P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P310 – Immediately call a POISON CENTER or doctor/physician
- P312 – Call a POISON CENTER/doctor/physician if you feel unwell
- P403 + P233 – Store in a well ventilated place. Keep container tightly closed
- P501 – Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC):** Contact with acids liberates very toxic gas

◆ **Sample Diluent Buffer, Product Number SDB-025 (SDB-###)**

**Classification:**

**OSHA Regulatory Status:**

A component or components of this mixture are considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**GHS Classification:**

- Acute Toxicity – Oral..... Category 4
- Acute Toxicity – Inhalation..... Category 3
- Acute Aquatic Toxicity ..... Category 1
- Chronic Aquatic Toxicity ..... Category 1
- Skin Corrosion/Irritation ..... Category 1A
- Skin sensitization ..... Category 1
- Serious Eye Damage/Irritation..... Category 1
- Specific target organ toxicity – single exposure..... Category 3 – Respiratory system

**Appearance:**.....Clear, colorless liquid

**Physical State:** .....Liquid

**Odor:**.....No information available



**Signal Word:** **DANGER**

**Hazard Statements:**

- H302 – Harmful if swallowed
- H314 – Causes severe skin burns and eye damage
- H315 – Causes skin irritation
- H317 – May cause an allergic skin reaction
- H318 – Causes serious eye damage
- H319 – Causes serious eye irritation
- H331 – Toxic if inhaled
- H335 – May cause respiratory irritation
- H400 – Very toxic to aquatic life
- H410 – Very toxic to aquatic life with long lasting effects

**Precautionary Statements:**

- P261 – Avoid breathing dust/fumes/gas/mist/vapors/spray
- P262 – Do not get in eyes, on skin, or on clothing
- P264 – Wash face, hands and any exposed skin thoroughly after handling
- P270 – Do not eat, drink or smoke when using this product
- P271 – Use only outdoors or in a well-ventilated area
- P272 – Contaminated work clothing should not be allowed out of the workplace
- P273 – Avoid release to the environment
- P280 – Wear protective gloves/protective clothing/eye protection/face protection
- P301 + P330 + P331 – IF SWALLOWED: rinse mouth. Do NOT induce vomiting
- P302 + P352 – IF ON SKIN: Wash with plenty of soap and water
- P303 + P361 + P353 – IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- P304 + P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- P305 +P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P310 – Immediately call a POISON CENTER or doctor/physician
- P312 – Call a POISON CENTER/doctor/physician if you feel unwell
- P321 – Specific treatment (see supplemental first aid instructions on this label – Section 4)
- P333 + P313 – If skin irritation or rash occurs: Get medical advice/attention
- P363 – Wash contaminated clothing before reuse
- P391 – Collect spillage
- P403 + P233 – Store in a well ventilated place. Keep container tightly closed
- P405 – Store locked up
- P501 – Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC):** No information available

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**
**Mouse IgG Subclass Standard, Product Number QQG1S-300 (QQG1S-###)**

Chemical Name	CAS #	EC #	Concentration (% by weight)	Classification
Water	7732-18-5	231-791-2	> 99.3	N/A
Mouse Monoclonal IgG <sub>1</sub>	—	—	5 × 10 <sup>-5</sup>	—
Sodium Chloride	7647-14-5	231-598-3	0.380-0.400	* Skin Irritant – 2 Eye Irritant – 2
Bovine Serum Albumin	9048-46-8	232-936-2	0.095-0.100	—
Sodium Phosphate Dibasic	7558-79-4	231-448-7	0.068-0.072	—
Sodium Azide	26628-22-8	247-852-1	0.023-0.025	* Acute Toxicity- Oral – 2 Acute Toxicity - Dermal – 1 Acute Aquatic Toxicity – 1 Chronic Aquatic Toxicity – 1
Potassium Phosphate Monobasic	7778-77-0	231-913-4	0.011-0.012	—
Potassium Chloride	7447-40-7	231-211-8	0.009-0.010	* Acute Aquatic Toxicity – 3 Chronic Aquatic Toxicity – 3

\* Refer to Section 2 – HAZARD(S) IDENTIFICATION

**Sample Diluent Buffer, Product Number SDB-025 (SDB-###)**

Chemical Name	CAS #	EC #	Concentration (% by weight)	Classification
Water	7732-18-5	231-791-2	> 94.0	N/A
Urea	57-13-6	200-315-5	2.85-3.00	* Skin Irritant – 2 Eye Irritant – 2
Sodium Chloride	7647-14-5	231-598-3	1.667-1.754	* Skin Irritant – 2 Eye Irritant – 2
Bovine Serum Albumin	9048-46-8	232-936-2	0.475-0.500	—
Polyethylene glycol sorbitan monooleate	9005-65-6	500-019-9	0.475-0.500	—
1,3-Propanediol, 2-amino-2-(hydroxymethyl)-, hydrochloride	1185-53-1	214-684-5	0.298-0.315	* Skin Irritant – 2 Eye Irritant – 2
Tris (hydroxymethyl)aminomethane	77-86-1	201-064-4	0.225-0.242	* Skin Irritant – 2 Eye Irritant – 2
2-Methyl-2H-isothiazol-3-one	2682-20-4	220-239-6	0.005-0.010	* Acute Toxicity, Oral – 4 Acute Toxicity, Inhalation – 3 Skin Corrosion – 1A Serious Eye Damage – 1 Skin Sensitization – 1 STOT-SE – 3 (Respiratory System) Acute Aquatic Toxicity – 1 Chronic Aquatic Toxicity – 1

\* Refer to Section 2 – HAZARD(S) IDENTIFICATION

**SECTION 4: FIRST-AID MEASURES**

The following applies to BOTH

- ◆ **Mouse IgG Subclass Standard, Product Number QQG1S-300 (QQG1S-###) AND**
- ◆ **Sample Diluent Buffer, Product Number SDB-025 (SDB-###)**

**General Advice:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. Treat symptomatically.

**Eye Contact:** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Remove contact lenses, if present and easy to do. Consult a physician. Continue rinsing eyes during transport to hospital.

**Skin Contact:** Take off contaminated clothing and shoes immediately. Wash off with soap and copious amounts of water. Take victim immediately a hospital. Consult a physician.

**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. Consult a physician.

**Ingestion:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Most important symptoms and effects, both acute and delayed:** The most important symptoms and effects are described in Sections 2 and 11.

**Indication of immediate medical attention and special treatment needed, if necessary:** No Data Available

**SECTION 5: FIRE-FIGHTING MEASURES**

The following applies to BOTH

- ◆ **Mouse IgG Subclass Standard, Product Number QQG1S-300 (QQG1S-###) AND**
- ◆ **Sample Diluent Buffer, Product Number SDB-025 (SDB-###)**

**Both products are liquid and not flammable or combustible**

**Suitable extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Select extinguishing media appropriate to local circumstances and the surrounding environment.

**Specific hazards arising from the substance or mixture:** Under fire conditions, Carbon Oxides, Nitrogen Oxides, Sulphur Oxides, Sodium Oxides, and Oxides of Phosphorus may be produced.

**Special protective equipment and precautions for fire-fighters:** Wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

The following applies to BOTH

- ◆ **Mouse IgG Subclass Standard, Product Number QQG1S-300 (QQG1S-###) AND**
- ◆ **Sample Diluent Buffer, Product Number SDB-025 (SDB-###)**

**Personal precautions, protective equipment and emergency procedures:** Avoid contact with skin, eyes and clothing. Use personal protective equipment (refer to Section 8). Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

**Methods and materials for containment and cleaning up:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed/sealed containers for disposal as a hazardous waste (refer to Section 13)

**SECTION 7: HANDLING AND STORAGE**

The following applies to BOTH

- ◆ **Mouse IgG Subclass Standard, Product Number QQG1S-300 (QQG1S-###) AND**
- ◆ **Sample Diluent Buffer, Product Number SDB-025 (SDB-###)**

**Precautions for safe handling:** Handle in accordance with cGMP, good industrial hygiene and safety practice. Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Ensure adequate ventilation.

**Conditions for safe storage, including any incompatibilities:**

**Storage:** Keep containers tightly closed in a well-ventilated place. Store refrigerated, 2-8 ° C. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

**Incompatibilities:** Strong oxidizing agents. Do not store near acids. Avoid contact with metals.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

- ◆ **Mouse IgG Subclass Standard, Product Number QQG1S-300 (QQG1S-###)**

Chemical Name	CAS #	EC #	OSHA PEL	ACGIH TLV	NIOSH IDLH
Water	7732-18-5	231-791-2	N/A	N/A	N/A
Mouse Monoclonal IgG <sub>1</sub>	—	—	—	—	—
Sodium Chloride	7647-14-5	231-598-3	—	—	—
Bovine Serum Albumin	9048-46-8	232-936-2	—	—	—
Sodium Phosphate Dibasic	7558-79-4	231-448-7	—	—	—
Sodium Azide	26628-22-8	247-852-1	0.1 ppm	0.11 ppm/0.29 mg/m <sup>3</sup>	0.1 ppm/0.3 mg/m <sup>3</sup>
Potassium Phosphate Monobasic	7778-77-0	231-913-4	—	—	—
Potassium Chloride	7447-40-7	231-211-8	—	—	—

- ◆ **Sample Diluent Buffer, Product Number SDB-025 (SDB-###)**

**Exposure limits:** Contains no components with occupational exposure limit values established by specific regulatory agencies:

Chemical Name	CAS #	EC #	OSHA PEL	ACGIH TLV	NIOSH IDLH
Water	7732-18-5	231-791-2	—	—	—
Urea	57-13-6	200-315-5	—	—	—
Sodium Chloride	7647-14-5	231-598-3	—	—	—
Bovine Serum Albumin	9048-46-8	232-936-2	—	—	—
Polyethylene glycol sorbitan monooleate	9005-65-6	500-019-9	—	—	—
1,3-Propanediol, 2-amino-2-(hydroxymethyl)-, hydrochloride	1185-53-1	214-684-5	—	—	—
Tris (hydroxymethyl)aminomethane	77-86-1	201-064-4	—	—	—
2-Methyl-2H-isothiazol-3-one	2682-20-4	220-239-6	—	—	—

The following applies to BOTH

- ◆ Mouse IgG Subclass Standard, Product Number QQG1S-300 (QQG1S-###) AND
- ◆ Sample Diluent Buffer, Product Number SDB-025 (SDB-###)

**Engineering controls:** Showers, eyewash stations and ventilation systems - Handle in accordance with cGMP, good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

**Personal Protective Equipment:**

**Eye/face protection:** Snuggly fitting safety goggles or faceshield (8 inch minimum) – Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (U.S.) or EN 166 (E.U.)

**Skin protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching the glove’s outer surface) to avoid possible skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and cGMP. Wash hands with soap and copious amounts of water.

**Body protection:** Complete suit protecting against chemicals – The type of protective equipment must be chosen according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection:** Where risk assessment shows air-purifying respirators are appropriate, use a full-face respirator with multipurpose combination (U.S.) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (U.S.) or CEN (E.U.).

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

The following applies to BOTH

- ◆ Mouse IgG Subclass Standard, Product Number QQG1S-300 (QQG1S-###) AND
- ◆ Sample Diluent Buffer, Product Number SDB-025 (SDB-###)

<b>Appearance:</b>	Clear, colorless liquid
<b>Odor:</b>	No Data Available
<b>Odor Threshold:</b>	No Data Available
<b>pH:</b>	7.0 - 8.3
<b>Melting Point/Freezing Point:</b>	No Data Available – Approximately 0°C
<b>Initial Boiling Point and Boiling Range:</b>	No Data Available – Approximately 100°C
<b>Flash Point:</b>	No Data Available
<b>Evaporation Rate:</b>	No Data Available
<b>Flammability (solid, gas):</b>	Non-Flammable Liquid
<b>Upper/Lower Flammability or Explosive Limits:</b>	Non-Flammable – Non-Explosive Liquid
<b>Vapor Pressure:</b>	No Data Available
<b>Vapor Density:</b>	No Data Available
<b>Specific Gravity (g/mL):</b>	Approximately 1.0
<b>Solubility:</b>	Miscible (Aqueous Solution)
<b>Other Solubility:</b>	No Data Available
<b>Partition Coefficient: n-octanol/water:</b>	No Data Available
<b>Auto-Ignition Temperature:</b>	No Data Available
<b>Decomposition Temperature:</b>	No Data Available
<b>Viscosity:</b>	No Data Available
<b>Explosive Properties:</b>	No Data Available (Not Applicable)
<b>Oxidizing Properties:</b>	No Data Available

**SECTION 10: STABILITY AND REACTIVITY**

The following applies to BOTH

- ◆ Mouse IgG Subclass Standard, Product Number QQG1S-300 (QQG1S-###) AND
- ◆ Sample Diluent Buffer, Product Number SDB-025 (SDB-###)

Reactivity: No Data Available

Chemical Stability: Stable under recommended storage conditions (refer to Section 7)

Possibility of Hazardous Reactions: No Data Available

Conditions to Avoid: Temperature extremes and direct sunlight

Incompatible Materials: Strong oxidizing agents, Halogenated hydrocarbons, Metals, Acids, Acid chlorides

Hazardous Decomposition Products: In the event of a fire, refer to Section 5

Other Decomposition Products: No information available

**SECTION 11: TOXICOLOGICAL INFORMATION**

- ◆ Mouse IgG Subclass Standard, Product Number QQG1S-300 (QQG1S-###)

Information on likely routes of exposure:

**Inhalation:** ..... Harmful by inhalation

**Ingestion:** ..... Harmful if swallowed

**Eye Contact:**..... Corrosive to the eyes and may cause severe damage including blindness. May cause irreversible damage to eyes.

**Skin Contact:** ..... Contact may cause severe skin irritation and possible burns.

**ACUTE TOXICITY:**

Chemical Name	CAS #	EC #	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water	7732-18-5	231-791-2	N/A	N/A	N/A
Mouse Monoclonal IgG <sub>1</sub>	—	—	—	—	—
Sodium Chloride	7647-14-5	231-598-3	3 g/kg (Rat)	> 10 g/kg (Rabbit)	> 42 g/m <sup>3</sup> (Rat) 1 h
Bovine Serum Albumin	9048-46-8	232-936-2	—	—	—
Sodium Phosphate Dibasic	7558-79-4	231-448-7	—	—	—
Sodium Azide	26628-22-8	247-852-1	10 mg/kg (Rabbit) 27 mg/kg (Rat)	20 mg/kg (Rabbit)	37 mg/m <sup>3</sup> (Rat)
Potassium Phosphate Monobasic	7778-77-0	231-913-4	—	4.64g/kg (Rabbit)	—
Potassium Chloride	7447-40-7	231-211-8	—	—	—

Symptoms related to the physical, chemical, and toxicological characteristics: No information available

Delayed and immediate effects as well as chronic effects from short- and long-term exposure:

**Skin Corrosion/Irritation:** ..... May cause severe burns

**Serious Eye Damage/Injury:** ..... Risk of serious damage to the eyes

**Sensitization:** ..... No information available

**Mutagenic Effects:**..... No information available

**CARCINOGENICITY:**

Chemical Name	CAS #	EC #	IARC	ACGIH	NTP	OSHA
Water	7732-18-5	231-791-2	N/A	N/A	N/A	N/A
Mouse Monoclonal IgG <sub>1</sub>	—	—	—	—	—	—
Sodium Chloride	7647-14-5	231-598-3	—	—	—	—
Bovine Serum Albumin	9048-46-8	232-936-2	—	—	—	—
Sodium Phosphate Dibasic	7558-79-4	231-448-7	—	—	—	—
Sodium Azide	26628-22-8	247-852-1	—	—	—	—
Potassium Phosphate Monobasic	7778-77-0	231-913-4	—	—	—	—
Potassium Chloride	7447-40-7	231-211-8	—	—	—	—

**IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible, or confirmed human carcinogen by IARC.

**ACGIH:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive Toxicity:**..... No information available

**STOT – single exposure:** ..... Respiratory system – Inhalation may cause respiratory irritation

**STOT – repeated exposure:**..... No information available

**Aspiration hazard:** ..... No information available

**Additional Information:** RTECS – No data available

◆ **Sample Diluent Buffer, Product Number SDB-025 (SDB-###)**

**Information on likely routes of exposure:**

**Inhalation:** ..... Harmful by inhalation

**Ingestion:** ..... Harmful if swallowed

**Eye Contact:**..... Corrosive to the eyes and may cause severe damage including blindness. May cause irreversible damage to eyes.

**Skin Contact:** ..... Contact may cause severe skin irritation and possible burns. May cause an allergic skin reaction

**ACUTE TOXICITY:**

Chemical Name	CAS #	EC #	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water	7732-18-5	231-791-2	N/A	N/A	N/A
Urea	57-13-6	200-315-5	8.471 g/kg (Rat)	—	—
Sodium Chloride	7647-14-5	231-598-3	3 g/kg (Rat)	> 10 g/kg (Rabbit)	> 42 g/m <sup>3</sup> (Rat) 1 h
Bovine Serum Albumin	9048-46-8	232-936-2	—	—	—
Polyethylene glycol sorbitan monooleate	9005-65-6	500-019-9	25.0 g/kg (Mouse)	Mild skin and eye irritation (Rabbit)	—
1,3-Propanediol, 2-amino-2-(hydroxymethyl)-, hydrochloride	1185-53-1	214-684-5	—	—	—
Tris (hydroxymethyl)aminomethane	77-86-1	201-064-4	5.9 g/kg (Rat)	—	—
2-Methyl-2H-isothiazol-3-one	2682-20-4	220-239-6	1.1 g/kg (Rat-Female) 2.834 g/kg (Rat-Male)	> 5 g/kg (Rabbit)	—

**Symptoms related to the physical, chemical, and toxicological characteristics:** No information available

**Delayed and immediate effects as well as chronic effects from short- and long-term exposure:**

**Skin Corrosion/Irritation:** ..... May cause severe burns

**Serious Eye Damage/Injury:** ..... Risk of serious damage to the eyes

**Sensitization:** ..... May cause an allergic skin reaction

**Mutagenic Effects:**..... No information available

**CARCINOGENICITY:**

Chemical Name	CAS #	EC #	IARC	ACGIH	NTP	OSHA
Water	7732-18-5	231-791-2	—	—	—	—
Urea	57-13-6	200-315-5	—	—	—	—
Sodium Chloride	7647-14-5	231-598-3	—	—	—	—
Bovine Serum Albumin	9048-46-8	232-936-2	—	—	—	—
Polyethylene glycol sorbitan monooleate	9005-65-6	500-019-9	—	—	—	—
1,3-Propanediol, 2-amino-2-(hydroxymethyl)-, hydrochloride	1185-53-1	214-684-5	—	—	—	—
Tris (hydroxymethyl)aminomethane	77-86-1	201-064-4	—	—	—	—
2-Methyl-2H-isothiazol-3-one	2682-20-4	220-239-6	—	—	—	—

**IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible, or confirmed human carcinogen by IARC.

**ACGIH:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive Toxicity:**..... No information available

**STOT – single exposure:** ..... Respiratory system – Inhalation may cause respiratory irritation

**STOT – repeated exposure:**..... No information available

**Aspiration hazard:** ..... No information available

**Additional Information:** RTECS – No data available

**SECTION 12: ECOLOGICAL INFORMATION**

**◆ Mouse IgG Subclass Standard, Product Number QQG1S-300 (QQG1S-###)**

**Ecotoxicity:**

Harmful to aquatic life. Avoid release to the environment. Dispose of in accordance with local, state, federal, and international regulations.

0.175 - 0.185% of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Chemical Name	CAS #	EC #	Algae/Aquatic Plants	Toxicity to Fish	Other
Water	7732-18-5	231-791-2	N/A	N/A	N/A-
Mouse Monoclonal IgG <sub>1</sub>	—	—	—	—	—
Sodium Chloride	7647-14-5	231-598-3	—	5560 - 6080: 96 h <i>Lepomis macrochirus</i> mg/L LC50 flow-through 6420 - 6700: 96 h <i>Pimephales promelas</i> mg/L LC50 static 12946: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static 6020 - 7070: 96 h <i>Pimephales promelas</i> mg/L LC50 static 4747 - 7824: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 flow-through 7050: 96 h <i>Pimephales promelas</i> mg/L LC50 semi-static	1000: 48 h <i>Daphnia magna</i> mg/L EC50 340.7 - 469.2: 48 h <i>Daphnia magna</i> mg/L EC50 Static
Bovine Serum Albumin	9048-46-8	232-936-2	—	—	—
Sodium Phosphate Dibasic	7558-79-4	231-448-7	—	—	—
Sodium Azide	26628-22-8	247-852-1	—	—	EC50 – <i>Daphnia pulex</i> 4.2 mg/L: 48 h
Potassium Phosphate Monobasic	7778-77-0	231-913-4	—	—	—
Potassium Chloride	7447-40-7	231-211-8	—	<i>Pimephales promelas</i> LC50 - 880 mg/L: 96 h mortality NOEC – 500 mg/L: 7 d mortality LOEC – 1000 mg.L: 7 d	EC50 – <i>Daphnia magna</i> 83 mg/L: 48 h

**Persistence and Degradability:**..... No Data Available

**Bioaccumulative Potential:** ..... No Data Available

**Mobility in Soil:**..... No Data Available

**Other Adverse Effects:** ..... No Data Available – An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

◆ **Sample Diluent Buffer, Product Number SDB-025 (SDB-###)**

**Ecotoxicity:**

Harmful to aquatic life. Avoid release to the environment. Dispose of in accordance with local, state, federal, and international regulations.

1.478 - 1.567% of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Chemical Name	CAS #	EC #	Algae/Aquatic Plants	Toxicity to Fish	Other
Water	7732-18-5	231-791-2	N/A	N/A	N/A-
Urea	57-13-6	200-315-5	—	LC50 > 3.81 g/L <i>Leuciscus idus</i> 96 h	EC50 23.9 g/L <i>Microtox</i> 5 min. EC50 > 10 g/L <i>Daphnia magna</i> 24 h
Sodium Chloride	7647-14-5	231-598-3	—	5560 - 6080: 96 h <i>Lepomis macrochirus</i> mg/L LC50 flow-through 6420 - 6700: 96 h <i>Pimephales promelas</i> mg/L LC50 static 12946: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static 6020 - 7070: 96 h <i>Pimephales promelas</i> mg/L LC50 static 4747 - 7824: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 flow-through 7050: 96 h <i>Pimephales promelas</i> mg/L LC50 semi-static	1000: 48 h <i>Daphnia magna</i> mg/L EC50 340.7 - 469.2: 48 h <i>Daphnia magna</i> mg/L EC50 Static
Bovine Serum Albumin	9048-46-8	232-936-2	—	—	—
Polyethylene glycol sorbitan monooleate	9005-65-6	500-019-9	—	—	—
1,3-Propanediol, 2-amino-2-(hydroxymethyl)-, hydrochloride	1185-53-1	214-684-5	—	—	—
Tris (hydroxymethyl)aminomethane	77-86-1	201-064-4	—	—	—
2-Methyl-2H-isothiazol-3-one	2682-20-4	220-239-6	—	—	—

**Persistence and Degradability:**..... No Data Available

**Bioaccumulative Potential:** ..... No Data Available

**Mobility in Soil:**..... No Data Available

**Other Adverse Effects:** ..... No Data Available – An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**SECTION 13: DISPOSAL CONSIDERATIONS**

The following applies to BOTH

- ◆ **Mouse IgG Subclass Standard, Product Number QQG1S-300 (QQG1S-###) AND**
- ◆ **Sample Diluent Buffer, Product Number SDB-025 (SDB-###)**

**Waste Treatment Methods**

**Product:** .. Dispose of material in accordance with all international, federal, state, and local regulations. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated Packaging:**..... Dispose of as unused product (refer to above paragraph). Do not reuse empty containers.

**SECTION 14: TRANSPORT INFORMATION**

The following applies to BOTH

- ◆ **Mouse IgG Subclass Standard, Product Number QQG1S-300 (QQG1S-###) AND**
- ◆ **Sample Diluent Buffer, Product Number SDB-025 (SDB-###)**

**U.S. DOT HAZARD CLASSIFICATION – NOT REGULATED**

Proper Shipping Name: Not Regulated  
 UN Number: Not Applicable  
 Hazard Class/Packing Group: Not Applicable  
 Labels Required: None  
 DOT Packaging Requirements: Not Applicable  
 Exceptions: Not Applicable

**IATA/ICAO AIR TRANSPORTATION – NOT REGULATED**

Proper Shipping Name: Not Regulated  
 UN Number: Not Applicable  
 Hazard Class/Packing Group: Not Applicable  
 Labels Required: None  
 IATA Packaging Requirements: Not Applicable

**IMDG:** Not Regulated

**SECTION 15: REGULATORY INFORMATION**

- ◆ **Mouse IgG Subclass Standard, Product Number QQG1S-300 (QQG1S-###)**

**U.S. Federal Regulations:**

**REACH:** A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

**SARA 313 Components:** Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards:** **Acute Health Hazard:** .....Yes  
**Chronic Health Hazard:**.....No  
**Fire Hazard:**.....No  
**Sudden Release of Pressure Hazard:**.....No  
**Reactive Hazard:** .....No

**U.S. State Regulations:**

**California Proposition 65:** This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

**Massachusetts Right to Know Components:** CAS # 26628-22-8: Sodium Azide  
 CAS # 7558-79-4: Disodium hydrogenorthophosphate

**New Jersey Right to Know Components:** CAS # 7732-18-5: Water  
 CAS # 26628-22-8: Sodium Azide  
 CAS # 7558-79-4: Disodium hydrogenorthophosphate  
 CAS # 7447-40-7: Potassium chloride  
 CAS # 7778-77-0: Potassium dihydrogenorthophosphate  
 CAS # 9048-46-8: Serum albumin

**Pennsylvania Right to Know Components:** CAS # 7732-18-5: Water  
 CAS # 26628-22-8: Sodium Azide  
 CAS # 7558-79-4: Disodium hydrogenorthophosphate  
 CAS # 7447-40-7: Potassium chloride  
 CAS # 7778-77-0: Potassium dihydrogenorthophosphate  
 CAS # 9048-46-8: Serum albumin

**◆ Sample Diluent Buffer, Product Number SDB-025 (SDB-###)**

**U.S. Federal Regulations:**

**REACH:** A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

**SARA 313 Components:** Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards:** **Acute Health Hazard:** .....Yes  
**Chronic Health Hazard:**.....No  
**Fire Hazard:**.....No  
**Sudden Release of Pressure Hazard:**.....No  
**Reactive Hazard:** .....No

**U.S. State Regulations:**

**California Proposition 65:** This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

**Massachusetts Right to Know Components:** No components are subject to the Massachusetts Right to Know Act.

**New Jersey Right to Know Components:** CAS # 7732-18-5: Water  
CAS # 57-13-6: Urea  
CAS # 9005-65-6: Sorbitan, mono-(9Z)-9-octadecenoate, poly(oxy-1,2-ethanediyl)  
CAS # 2682-20-4: 2-Methyl-2H-isothiazol-3-one  
CAS # 9048-46-8 Serum albumin

**Pennsylvania Right to Know Components:** CAS # 7732-18-5: Water  
CAS # 9005-65-6: Sorbitan, mono-(9Z)-9-octadecenoate, poly(oxy-1,2-ethanediyl)  
CAS # 2682-20-4: 2-Methyl-2H-isothiazol-3-one  
CAS # 9048-46-8 Serum albumin

**SECTION 16: OTHER INFORMATION**

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This Safety Data Sheet was prepared using OSHA and GHS Standards and complies with the required information as detailed in 29 CFR 1910.1200 App D. The information included in this Safety Data Sheet is believed to be accurate, complete, and current but does not purport to be all inclusive and shall be used as a guide. BioAssay Works makes no representation or warranties with respect to the product described herein, including but not limited to any implied warranties of merchantability or fitness for a particular use. BioAssay Works assumes no liability or responsibility and authorizes no other person to assume any additional liability or responsibility as a result of the use of this product or the information contained in the Safety Data Sheet.