

Product Number: GT10  
Product Name: Glutathione  
Colorimetric  
Assay  
Revision: 220421

**1.1 Product Identification**

Product Name: GT10 Reagent 1  
Product Number: GT10  
Brand: Oxford Biomedical Research

**1.2 Supplier**

Company: Oxford Biomedical Research, Inc.  
PO Box 522  
Oxford, MI 48371  
USA  
Contact: 248-852-8815  
[info@oxfordbiomed.com](mailto:info@oxfordbiomed.com)

**1.3 Relevant Uses**

Identified uses: Research Assay

**1.4 Emergency Contact Number**

Contact: 248-852-8815

**2.1 Classification of the substance or mixture**

Acute toxicity oral (category 3), serious eye damage (category 1), corrosive to metals (category 1), skin corrosion (category 1B), specific target organ toxicity single exposure (category 3)

**2.2 GHS Label or Precautionary Statements**

Toxic if swallowed, causes serious eye damage, may be corrosive to metals, causes severe skin burns and eye damage, may cause respiratory irritation

**2.3 Hazards not otherwise classified:**

None

**3.1 Substances: Reagent 1 (5.5mL)**

4-Chloro-2-methyl-7  
(trifluoromethyl) quinoline  
Hydrochloric Acid  
Acute Tox. 3; Eye Dam. 1; H301, H318  
Met. Corr. 1; Skin Corr. 1B; Eye Dam 1; STOT SE 3;  
H290, H314, H318, H335

**4.1 Description of first aid measures**

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician

**In case of skin contact**

Wash off with soap and plenty of water. Take off all contaminated clothing. Consult a physician. Take victim to hospital

**In case of eye contact**

Flush eyes with plenty of water for at least 15 minutes. Remove contact lenses. Immediately call in an ophthalmologist

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Avoid vomiting. Call a physician immediately. Do not attempt to neutralize.

**4.2 Most important symptoms and effects: acute or delayed**  
The most important symptoms/effects are listed in section 2 and 11

**4.3 Recommendations for immediate medical care or special treatment**  
Treat symptomatically

**5.1 Extinguishing media** Use water spray, alcohol resistant foam, dry chemical, or carbon dioxide

**5.2 Special hazards** Hydrogen chloride gas, not combustible, ambient fire may liberate hazardous vapors

**SECTION 6: Accidental Release Measures**

**6.1 Personal precautions and personal protective equipment** Standard laboratory personal protective equipment should be utilized. Do not breathe vapors. Avoid substance contact

**6.2 Environmental precautions** Do not let product enter drains. Prevent further leakage or spillage if safe to do so.

**6.3 Methods for containment and clean up** Wipe with inert absorbent material and dispose of in suitable container. Cover up drains

**SECTION 7: Handling and Storage**

**7.1 Precautions for safe handling** Follow standard Good Laboratory Practices while using this product. Avoid contact with skin and eyes.

**7.2 Conditions for safe storage, including any incompatibilities** Keep container tightly closed. Recommended storage temperature is 4°C. No metal containers

## SECTION 8: Exposure Controls/Personal Protection

<b>8.1</b>	<b>OSHA Permissible Exposure Limits</b> Hydrochloric Acid	Value: C Control Parameters: 2ppm
<b>8.2</b>	<b>Exposure controls</b>	Follow standard Good Laboratory Practices while using this product. Avoid contact with skin, eyes, and clothing. Immediately change contaminated clothing.
<b>8.3</b>	<b>Personal Protective Equipment</b>	
	<b>Eye/face protection</b>	Use eye protection approved by NIOSH or EN166.
	<b>Skin protection</b>	Handle with gloves. Use proper glove removal technique to avoid skin contact. Gloves should be disposed of after use according to standard Good Laboratory Practices. Wash hands after use.
	<b>Body protection</b>	Wear a lab coat in accordance to standard Good Laboratory Practices.
	<b>Respiratory protection</b>	Respiratory protection is only required when vapors are generated.
	<b>Control of environmental exposure</b>	Do not let product enter drains. Prevent further leakage or spillage if safe to do so.

## SECTION 9: Physical and Chemical Properties

<b>Appearance</b>	Clear to light yellow liquid
<b>Odor</b>	Pungent
<b>Flammability</b>	No data available
<b>Vapor Pressure</b>	No data available
<b>Odor Threshold</b>	No data available
<b>Vapor Density</b>	No data available
<b>pH</b>	No data available
<b>Relative Density</b>	No data available
<b>Melting Point</b>	No data available
<b>Freezing Point</b>	No data available
<b>Solubility</b>	No data available

<b>Boiling Point</b>	No data available
<b>Flash Point</b>	No data available
<b>Evaporation Rate:</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

## SECTION 10: Stability and Reactivity

<b>10.1</b>	<b>Reactivity</b>	No data available
<b>10.2</b>	<b>Chemical Stability</b>	Stable under recommended storage conditions
<b>10.3</b>	<b>Possibility of hazardous reactions</b>	No data available Incompatible with strong oxidizing agents, metals

## SECTION 11: Toxicological Information

<b>11.1</b>	<b>Toxicity</b>	
	<b>Acute toxicity</b>	
	Symptoms if ingested	Severe burns of the mouth and throat as well as danger of perforation of the esophagus and the stomach
	Symptoms if inhaled	Mucosal irritation, cough, shortness of breath, possible damage of the respiratory tract
	<b>Skin irritation</b>	Mixture causes burns
	<b>Serious eye damage or irritation</b>	Mixture causes serious eye damage. Risk of blindness
	<b>Respiratory or skin sensitization</b>	May cause respiratory in sensitive individuals
	<b>Germ cell mutagenicity</b>	No data available
	<b>Carcinogenicity</b>	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.

<b>Reproductive toxicity</b>	No data available
<b>Specific target organ toxicity</b>	May cause respiratory irritation
<b>Aspiration hazard</b>	No data available

**SECTION 12: Ecological Information**

<b>12.1</b>	<b>Toxicity</b>	No data available
<b>12.2</b>	<b>Persistence and degradability</b>	No data available
<b>12.3</b>	<b>Bioaccumulation potential</b>	No data available
<b>12.4</b>	<b>Mobility in Soil</b>	No data available
<b>12.5</b>	<b>Other adverse effects</b>	No data available

**SECTION 13: Disposal Considerations**

<b>13.1</b>	<b>Waste treatment methods</b>	Dispose of product with a licensed disposal company.
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**SECTION 14: Transport Information**

<b>14.1</b>	<b>US DOT</b>	UN Number: 1789 Class: 8 Packing Group: 2
<b>14.2</b>	<b>IMDG</b>	UN Number: 1789 Class: 8 Packing Group: 2
<b>14.3</b>	<b>IATA</b>	UN Number: 1789 Class: 8 Packing Group: 2

**SECTION 15: Regulatory Information**

No known regulatory requirements.

**SECTION 16: Other Information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide.

Revision date: 4-22-22

### 1.1 **Product Identification**

Product Name: GT10 Reagent 2  
Product Number: GT10  
Brand: Oxford Biomedical Research

### 1.2 **Supplier**

Company: Oxford Biomedical Research, Inc.  
PO Box 522  
Oxford, MI 48371  
USA  
Contact: 248-852-8815  
[info@oxfordbiomed.com](mailto:info@oxfordbiomed.com)

### 1.3 **Relevant Uses**

Identified uses: Research Assay

### 1.4 **Emergency Contact Number**

Contact: 248-852-8815

### 2.1 **Classification of the substance or mixture**

Corrosive to metals (category 1), skin corrosion (category 1A), serious eye damage (category 1), short term acute aquatic hazard (category 3)

### 2.2 **GHS Label or Precautionary Statements**

May be corrosive to metals, causes severe skin burns and eye damage, harmful to aquatic life

### 2.3 **Hazards not otherwise classified:**

None

### 3.1 **Substances:** Reagent 2 (20mL)

Sodium Hydroxide Met. Corr. 1; Skin Corr. 1A; Eye Dam. 1; Aquatic Acute 3; H290, H314, H318, H402

### 4.1 **Description of first aid measures**

#### **If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Call in a physician

#### **In case of skin contact**

Wash off with soap and plenty of water/in a shower. Take off all contaminated clothing immediately. Call a physician immediately.

#### **In case of eye contact**

Flush eyes with plenty of water. Remove contact lenses. Immediately call in an ophthalmologist.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water (2 glasses at most). Avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralize.

**4.2 Most important symptoms and effects: acute or delayed**  
The most important symptoms/effects are listed in section 2 and 11

**4.3 Recommendations for immediate medical care or special treatment**  
Treat symptomatically

**5.1 Extinguishing media** Use extinguishing measures appropriate to circumstances and the environment

**5.2 Special hazards** Sodium oxides, not combustible, ambient fire may liberate hazardous vapors.

**SECTION 6: Accidental Release Measures**

**6.1 Personal precautions and personal protective equipment** Standard laboratory personal protective equipment should be utilized.

**6.2 Environmental precautions** Do not let product enter drains.

**6.3 Methods for containment and clean up** Wipe with liquid-absorbent and neutralizing material and dispose of in suitable container. Cover drains

**SECTION 7: Handling and Storage**

**7.1 Precautions for safe handling** Follow standard Good Laboratory Practices while using this product. Immediately change contaminated clothing

**7.2 Conditions for safe storage, including any incompatibilities** Keep container tightly closed. Recommended storage temperature is 4°C. No aluminum, tin or zinc containers. No metal containers

**SECTION 8: Exposure Controls/Personal Protection**

**8.1 OSHA Permissible Exposure Limits**  
Sodium Hydroxide Value: C Control Parameters: 2mg/m3

<b>8.2</b>	<b>Exposure controls</b>	Follow standard Good Laboratory Practices while using this product. Immediately change contaminated clothing.
<b>8.3</b>	<b>Personal Protective Equipment</b>	
	<b>Eye/face protection</b>	Use eye protection approved by NIOSH or EN166.
	<b>Skin protection</b>	Handle with gloves. Use proper glove removal technique to avoid skin contact. Gloves should be disposed of after use according to standard Good Laboratory Practices. Wash hands after use.
	<b>Body protection</b>	Wear a lab coat in accordance to standard Good Laboratory Practices.
	<b>Respiratory protection</b>	Respiratory protection only required when vapors are generated
	<b>Control of environmental exposure</b>	Do not let product enter drains

## **SECTION 9: Physical and Chemical Properties**

<b>Appearance</b>	Colorless liquid
<b>Odor</b>	No data available
<b>Flammability</b>	No data available
<b>Vapor Pressure</b>	No data available
<b>Odor Threshold</b>	No data available
<b>Vapor Density</b>	No data available
<b>pH</b>	No data available
<b>Relative Density</b>	No data available
<b>Melting Point</b>	No data available
<b>Freezing Point</b>	No data available
<b>Solubility</b>	Soluble in water
<b>Boiling Point</b>	No data available
<b>Flash Point</b>	Not applicable
<b>Evaporation Rate:</b>	No data available
<b>Auto-ignition Temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available

**Viscosity** No data available

## **SECTION 10: Stability and Reactivity**

<b>10.1</b>	<b>Reactivity</b>	No data available
<b>10.2</b>	<b>Chemical Stability</b>	No data available
<b>10.3</b>	<b>Possibility of hazardous reactions</b>	Risk of ignition or formation of flammable gases or vapors with metals and light metals. Violent reactions possible with ammonium compounds, cyanides, organic nitro compounds, organic combustible substances, phenols, powdered alkaline earth metals, acids, nitriles, magnesium Possible formation of hydrogen

## **SECTION 11: Toxicological Information**

<b>11.1</b>	<b>Toxicity</b>	
	<b>Acute toxicity</b>	
	Symptoms if ingested	Severe burns of the mouth and throat as well as danger of perforation of the esophagus and the stomach
	Symptoms if inhaled	Mucosal irritations, cough, shortness of breath, possible damage of the respiratory tract.
	<b>Skin irritation</b>	Necrosis mixture causes severe burns
	<b>Serious eye damage or irritation</b>	Mixture causes serious eye damage. Risk of blindness. Necrosis
	<b>Respiratory or skin sensitization</b>	No data available
	<b>Germ cell mutagenicity</b>	No data available
	<b>Carcinogenicity</b>	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.
	<b>Reproductive toxicity</b>	No data available
	<b>Specific target organ toxicity</b>	No data available

**Aspiration hazard** No data available

## **SECTION 12: Ecological Information**

<b>12.1</b>	<b>Toxicity</b>	No data available
<b>12.2</b>	<b>Persistence and degradability</b>	Methods for determining the biological degradability are not applicable to inorganic substances
<b>12.3</b>	<b>Bioaccumulation potential</b>	No data available
<b>12.4</b>	<b>Mobility in Soil</b>	No data available
<b>12.5</b>	<b>Other adverse effects</b>	Harmful effect due to PH shift. Death of fish possible. Does not cause biological oxygen deficit. Neutralization possible in waster water treatment plants. Discharge into the environment must be avoided.

## **SECTION 13: Disposal Considerations**

<b>13.1</b>	<b>Waste treatment methods</b>	Dispose of product with a licensed disposal company.
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## **SECTION 14: Transport Information**

<b>14.1</b>	<b>US DOT</b>	UN Number: 1824 Class: 8 Packing Group: II
<b>14.2</b>	<b>IMDG</b>	UN Number: 1824 Class: 8 Packing Group: II
<b>14.3</b>	<b>IATA</b>	UN Number: 1824 Class: 8 Packing Group: II

## **SECTION 15: Regulatory Information**

No known regulatory requirements.

## **SECTION 16: Other Information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide.

Revision date: 4-22-22

## 1.1 Product Identification

Product Name: GT10 Buffer  
Product Number: GT10  
Brand: Oxford Biomedical Research

## 1.2 Supplier

Company: Oxford Biomedical Research, Inc.  
PO Box 522  
Oxford, MI 48371  
USA  
Contact: 248-852-8815  
[info@oxfordbiomed.com](mailto:info@oxfordbiomed.com)

## 1.3 Relevant Uses

Identified uses: Research Assay

## 1.4 Emergency Contact Number

Contact: 248-852-8815

## 2.1 Classification of the substance or mixture

Acute toxicity inhalation (category 4), eye irritation (category 2A), reproductive toxicity (category 2), specific target organ toxicity-repeated exposure inhalation (category 2), skin irritation (category 2)

## 2.2 GHS Label or Precautionary Statements

Causes serious eye irritation, harmful if inhaled, suspected of damaging fertility or the unborn child, may cause damage to organs (respiratory tract) through prolonged or repeated exposure if inhaled, causes skin irritation

## 2.3 Hazards not otherwise classified

None

## 3.1 Substances Buffer (100mL)

Lubrol Skin Irrit. 2: H315  
N, N-bis (2- (bis (carboxymethyl) Acute Tox. 4; Eye Irrit. 2A; Repr. 2: STOT RE 2; H332,  
amino) ethyl) glycine H319, H361, H373

## 4.1 Description of first aid measures If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration and if necessary oxygen. Call a physician.

### In case of skin contact

Wash off with soap and plenty of water. Immediately remove all contaminated clothing. Consult a doctor.

**In case of eye contact**

Flush eyes with plenty of water. Remove contact lenses. Call in an ophthalmologist

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water (2 glasses at most). Consult a physician.

**4.2 Most important symptoms and effects: acute or delayed**

The most important symptoms/effects are listed in section 2 and 11

**4.3 Recommendations for immediate medical care or special treatment**

Treat symptomatically

**5.1 Extinguishing media**

Use water foam carbon dioxide dry powder

**5.2 Special hazards**

Oxides of phosphorus, potassium oxides, carbon oxides, nitrogen oxides, ambient fire may liberate hazardous vapors

**SECTION 6: Accidental Release Measures**

**6.1 Personal precautions and personal protective equipment**

Standard laboratory personal protective equipment should be utilized. Avoid breathing vapor or mist

**6.2 Environmental precautions**

Don't let product enter drains, sewers, surface water or ground water

**6.3 Methods for containment and clean up**

Wipe with absorbent material and dispose of in suitable container. Cover drains.

**SECTION 7: Handling and Storage**

**7.1 Precautions for safe handling**

Follow standard Good Laboratory Practices while using this product. Change any contaminated clothing

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

Keep container tightly closed. Recommended storage temperature is 4°C.

## SECTION 8: Exposure Controls/Personal Protection

<b>8.1</b>	<b>OSHA Permissible Exposure Limits</b>	Contains no substances with occupational exposure limits
<b>8.2</b>	<b>Exposure controls</b>	Follow standard Good Laboratory Practices while using this product.
<b>8.3</b>	<b>Personal Protective Equipment</b>	
	<b>Eye/face protection</b>	Use eye protection approved by NIOSH or EN166.
	<b>Skin protection</b>	Handle with gloves. Use proper glove removal technique to avoid skin contact. Gloves should be disposed of after use according to standard Good Laboratory Practices. Wash hands after use.
	<b>Body protection</b>	Wear a lab coat in accordance to standard Good Laboratory Practices.
	<b>Respiratory protection</b>	Respiratory protection is not required.
	<b>Control of environmental exposure</b>	Do not let the product enter drains, sewer systems, or drainage systems

## SECTION 9: Physical and Chemical Properties

<b>Appearance</b>	Clear Liquid
<b>Odor</b>	Odorless/slight
<b>Flammability</b>	No data available
<b>Vapor Pressure</b>	No data available
<b>Odor Threshold</b>	No data available
<b>Vapor Density</b>	No data available
<b>pH</b>	No data available
<b>Relative Density</b>	No data available
<b>Melting Point</b>	No data available
<b>Freezing Point</b>	No data available
<b>Solubility</b>	Soluble in water
<b>Boiling Point</b>	No data available

<b>Flash Point</b>	No data available
<b>Evaporation Rate:</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

## **SECTION 10: Stability and Reactivity**

<b>10.1</b>	<b>Reactivity</b>	No data available
<b>10.2</b>	<b>Chemical Stability</b>	Stable under recommended storage conditions
<b>10.3</b>	<b>Possibility of hazardous reactions</b>	Violent reactions possible with strong oxidizing agents, strong acids, strong bases. Avoid strong heating

## **SECTION 11: Toxicological Information**

<b>11.1</b>	<b>Toxicity</b>	
	<b>Acute toxicity</b>	No data available
	<b>Skin irritation</b>	May cause irritation to the skin and mucus membranes
	<b>Serious eye damage or irritation</b>	May cause serious eye damage
	<b>Respiratory or skin sensitization</b>	No data available
	<b>Germ cell mutagenicity</b>	No mutagenic affects
	<b>Carcinogenicity</b>	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.
	<b>Reproductive toxicity</b>	Suspected of damaging the. Unborn child. Suspected of damaging fertility
	<b>Specific target organ toxicity</b>	May cause damage to organs through prolonged or repeated exposure- respiratory tract

**Aspiration hazard** No data available

## **SECTION 12: Ecological Information**

<b>12.1</b>	<b>Toxicity</b>	Toxicity to fish, algae, bacteria, daphnia, and other aquatic invertebrates
<b>12.2</b>	<b>Persistence and degradability</b>	No data available
<b>12.3</b>	<b>Bioaccumulation potential</b>	No data available
<b>12.4</b>	<b>Mobility in Soil</b>	No data available
<b>12.5</b>	<b>Other adverse effects</b>	Depending on the concentration, phosphorus compounds may contribute to the eutrophication of water supplies. Discharge into the environment must be avoided.

## **SECTION 13: Disposal Considerations**

<b>13.1</b>	<b>Waste treatment methods</b>	Dispose of product with a licensed disposal company.
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## **SECTION 14: Transport Information**

<b>14.1</b>	<b>US DOT</b>	Not dangerous goods
<b>14.2</b>	<b>IMDG</b>	Not dangerous goods
<b>14.3</b>	<b>IATA</b>	Not dangerous goods

## **SECTION 15: Regulatory Information**

No known regulatory requirements.

## **SECTION 16: Other Information**

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide.

Revision date: 4-26-22