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A Geno Technology, Inc. (USA) brand name

# Safety Data Sheet

Cat. # BTNM-0018

Bradford Reagent [5X]

Size: 500ml



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[www.GBiosciences.com](http://www.GBiosciences.com)



# Bradford Reagent [5x]

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  
Revision date: 5/11/2017

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture  
Product name : Bradford Reagent [5x]  
Product code : B154  
Product group : Trade product

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### 1.2.1. Relevant identified uses

No additional information available

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Geno Technology, Inc./ G-Biosciences  
9800 Page Avenue  
63132-1429 Saint Louis - United States  
T 800-628-7730 - F 314-991-1504  
[technical@GBiosciences.com](mailto:technical@GBiosciences.com) - [www.GBiosciences.com](http://www.GBiosciences.com)

#### 1.4. Emergency telephone number

Emergency number : Chemtrec **1-800-424-9300** (USA/Canada), **+1-703-527-3887** (Intl)

| Country        | Organisation/Company  | Address   | Emergency number | Comment |
|----------------|---|---|------------------|---------|
| United Kingdom | National Poisons Information Service (Belfast Centre)<br>Royal Victoria Hospital                                | Grosvenor Road<br>BT12 6BA Belfast                          | 0344 892 0111    |         |
| United Kingdom | National Poisons Information Service (Birmingham Centre)<br>City Hospital                                       | Dudley Road<br>B18 7QH Birmingham                           | 0344 892 0111    |         |
| United Kingdom | National Poisons Information Service (Cardiff Centre)<br>Gwenwyn Ward, Llandough Hospital                       | Penarth<br>CF64 2XX Cardiff                                 | 0344 892 0111    |         |
| United Kingdom | National Poisons Information Service Edinburgh<br>Royal Infirmary of Edinburgh                                  | Little France Crescent<br>EH16 4SA Edinburgh                | 0344 892 0111    |         |
| United Kingdom | Guy's & St Thomas' Poisons Unit<br>Medical Toxicology Unit,<br>Guy's & St Thomas' Hospital Trust                | Avonley Road<br>SE14 5ER London                             | +44 20 7188 7188 |         |
| United Kingdom | National Poisons Information Service (Newcastle Centre)<br>Regional Drugs and Therapeutics Centre, Wolfson Unit | Claremont Place<br>Newcastle-upon-Tyne<br>NE1 4LP Newcastle | 0344 892 0111    |         |

### SECTION 2: Hazards identification

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

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), Category 4 H302  
Acute toxicity (inhalation:dust,mist) Category 4 H332  
Skin corrosion/irritation, Category 1B H314  
Specific target organ toxicity — Single exposure, Category 1 H370  
Full text of H statements : see section 16

##### Adverse physicochemical, human health and environmental effects

Causes damage to organs. Harmful if inhaled. Harmful if swallowed. Causes severe skin burns and eye damage.

# Bradford Reagent [5x]

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS05

GHS07

GHS08

CLP Signal word

: Danger

Hazard statements (CLP)

: H302+H332 - Harmful if swallowed or if inhaled.  
H314 - Causes severe skin burns and eye damage.  
H370 - Causes damage to organs.

Precautionary statements (CLP)

: P260 - Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 - Wash hands, forearms and face thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P271 - Use only outdoors or in a well-ventilated area.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.  
P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P304+P340 - IF INHALED: Remove person to fresh air and keep 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.  
P308+P311 - IF exposed or concerned: Call a POISON CENTER or doctor.  
P310 - Immediately call a POISON CENTER or doctor.  
P312 - Call a POISON CENTRE or doctor if you feel unwell.  
P321 - Specific treatment (see supplemental first aid instruction on this label).  
P330 - Rinse mouth.  
P405 - Store locked up.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name                               | Product identifier   | %          | Classification according to Regulation (EC) No. 1272/2008 [CLP]   |
|------------------------------------|--|------------|---|
| phosphoric acid, conc=85%          | (CAS-No.) 7664-38-2<br>(EC-No.) 231-633-2<br>(EC Index-No.) 015-011-00-6 | 10 - 50    | Skin Corr. 1B, H314   |
| Deionized water                    | (CAS-No.) 7732-18-5  | 10 - 50    | Not classified  |
| methanol                           | (CAS-No.) 67-56-1<br>(EC-No.) 200-659-6<br>(EC Index-No.) 603-001-00-X   | 10 - 50    | Flam. Liq. 2, H225<br>Acute Tox. 3 (Oral), H301<br>Acute Tox. 3 (Inhalation), H331<br>Acute Tox. 3 (Inhalation:vapour), H331<br>STOT SE 1, H370 |
| Coomassie Brilliant Blue R-250 Dye | (CAS-No.) 6104-59-2<br>(EC-No.) 228-060-5                                | 0.05 - 0.5 | Not classified  |

#### Specific concentration limits:

| Name                      | Product identifier   | Specific concentration limits  |
|---------------------------|--|--|
| phosphoric acid, conc=85% | (CAS-No.) 7664-38-2<br>(EC-No.) 231-633-2<br>(EC Index-No.) 015-011-00-6 | ( 10 =<C < 25) Eye Irrit. 2, H319<br>( 10 =<C < 25) Skin Irrit. 2, H315<br>( 25 =<C < 100) Skin Corr. 1B, H314 |
| methanol                  | (CAS-No.) 67-56-1<br>(EC-No.) 200-659-6<br>(EC Index-No.) 603-001-00-X   | ( 3 =<C < 10) STOT SE 2, H371<br>( 10 =<C < 100) STOT SE 1, H370   |

Full text of H-statements: see section 16

# Bradford Reagent [5x]

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                                       |  |
|---------------------------------------|--|
| First-aid measures general            | : Call a physician immediately.  |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.                                |
| First-aid measures after skin contact | : Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.  |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. |
| First-aid measures after ingestion    | : Rinse mouth. Do not induce vomiting. Call a physician immediately.   |

#### 4.2. Most important symptoms and effects, both acute and delayed

|                                     |                           |
|-------------------------------------|---------------------------|
| Symptoms/effects after skin contact | : Burns.                  |
| Symptoms/effects after eye contact  | : Serious damage to eyes. |
| Symptoms/effects after ingestion    | : Burns.                  |

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

|                              |  |
|------------------------------|--|
| Suitable extinguishing media | : Water spray. Dry powder. Foam. Carbon dioxide. |
|------------------------------|--|

#### 5.2. Special hazards arising from the substance or mixture

|  |                                |
|--|--------------------------------|
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |
|--|--------------------------------|

#### 5.3. Advice for firefighters

|                                |  |
|--------------------------------|--|
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |
|--------------------------------|--|

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

|                      |   |
|----------------------|---|
| Emergency procedures | : Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. |
|----------------------|---|

##### 6.1.2. For emergency responders

|                      |   |
|----------------------|---|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
|----------------------|---|

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

|                         |   |
|-------------------------|---|
| Methods for cleaning up | : Take up liquid spill into absorbent material.                 |
| Other information       | : Dispose of materials or solid residues at an authorized site. |

#### 6.4. Reference to other sections

For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

|                               |  |
|-------------------------------|--|
| Precautions for safe handling | : Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Wear personal protective equipment. |
| Hygiene measures              | : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.                             |

#### 7.2. Conditions for safe storage, including any incompatibilities

|                    |   |
|--------------------|---|
| Storage conditions | : Store locked up. Store in a well-ventilated place. Keep cool. |
|--------------------|---|

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

methanol (67-56-1)

##### EU - Occupational Exposure Limits

|                                |                       |
|--------------------------------|-----------------------|
| IOELV TWA (mg/m <sup>3</sup> ) | 260 mg/m <sup>3</sup> |
| IOELV TWA (ppm)                | 200 ppm               |

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| United Kingdom - Occupational Exposure Limits |                       |
|---|-----------------------|
| WEL TWA (mg/m <sup>3</sup> )                  | 266 mg/m <sup>3</sup> |
| WEL TWA (ppm)                                 | 200 ppm               |
| WEL STEL (mg/m <sup>3</sup> )                 | 333 mg/m <sup>3</sup> |
| WEL STEL (ppm)                                | 250 ppm               |

### 8.2. Exposure controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

|  |
|--|
| <b>Hand protection:</b>  |
| Protective gloves  |
| <b>Eye protection:</b>   |
| Safety glasses   |
| <b>Skin and body protection:</b>                                 |
| Wear suitable protective clothing                                |
| <b>Respiratory protection:</b>                                   |
| [In case of inadequate ventilation] wear respiratory protection. |

#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|  |                     |
|--|---------------------|
| Physical state                             | : Liquid            |
| Colour                                     | : No data available |
| Odour                                      | : No data available |
| Odour threshold                            | : No data available |
| pH   | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point                              | : Not applicable    |
| Freezing point                             | : No data available |
| Boiling point                              | : No data available |
| Flash point                                | : > 95 °C           |
| Auto-ignition temperature                  | : No data available |
| Decomposition temperature                  | : No data available |
| Flammability (solid, gas)                  | : Not applicable    |
| Vapour pressure                            | : No data available |
| Relative vapour density at 20 °C           | : No data available |
| Relative density                           | : No data available |
| Solubility                                 | : No data available |
| Log Pow                                    | : No data available |
| Viscosity, kinematic                       | : No data available |
| Viscosity, dynamic                         | : No data available |
| Explosive properties                       | : No data available |
| Oxidising properties                       | : No data available |
| Explosive limits                           | : No data available |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

# Bradford Reagent [5x]

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### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Hazardous decomposition products.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Harmful if swallowed.

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Harmful if inhaled.

#### Bradford Reagent [5x]

|                     |                          |
|---------------------|--------------------------|
| ATE CLP (oral)      | 425.532 mg/kg bodyweight |
| ATE CLP (dust,mist) | 2.128 mg/l/4h            |

#### Coomassie Brilliant Blue R-250 Dye (6104-59-2)

|               |                          |
|---------------|--------------------------|
| LD50 oral rat | > 5000 mg/kg (Rat, Oral) |
|---------------|--------------------------|

#### methanol (67-56-1)

|                            |  |
|----------------------------|--|
| LD50 oral rat              | 1187 - 2769 mg/kg bodyweight (BASF test, Rat, Male / female, Weight of evidence, Aqueous solution, Oral, 7 day(s)) |
| LD50 dermal rabbit         | 17100 mg/kg (Rabbit, Inconclusive, insufficient data, Dermal)  |
| LC50 inhalation rat (mg/l) | 128.2 mg/l air (BASF test, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours))                      |

Skin corrosion/irritation : Causes severe skin burns and eye damage.

Serious eye damage/irritation : Serious eye damage, category 1, implicit

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Causes damage to organs.

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Before neutralisation, the product may represent a danger to aquatic organisms.

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : Not classified

#### methanol (67-56-1)

|                |  |
|----------------|--|
| LC50 fish 1    | 15400 mg/l (EPA 660/3 - 75/009, 96 h, Lepomis macrochirus, Flow-through system, Fresh water, Experimental value, Lethal)                                 |
| EC50 Daphnia 1 | 18260 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 96 h, Daphnia magna, Semi-static system, Fresh water, Experimental value, Locomotor effect) |
| ErC50 (algae)  | 22000 mg/l (OECD 201: Alga, Growth Inhibition Test, 96 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value)               |

#### phosphoric acid, conc=85% (7664-38-2)

|             |                                   |
|-------------|-----------------------------------|
| LC50 fish 1 | 138 mg/l (Pisces, Pure substance) |
|-------------|-----------------------------------|

### 12.2. Persistence and degradability

#### Coomassie Brilliant Blue R-250 Dye (6104-59-2)

|                               |   |
|-------------------------------|---|
| Persistence and degradability | Biodegradability in water: no data available. |
|-------------------------------|---|

# Bradford Reagent [5x]

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| methanol (67-56-1)              |  |
|---------------------------------|--|
| Persistence and degradability   | Readily biodegradable in the soil. Readily biodegradable in water. |
| Biochemical oxygen demand (BOD) | 0.6 - 1.12 g O <sub>2</sub> /g substance                           |
| Chemical oxygen demand (COD)    | 1.42 g O <sub>2</sub> /g substance                                 |
| ThOD                            | 1.5 g O <sub>2</sub> /g substance                                  |

| phosphoric acid, conc=85% (7664-38-2) |                                   |
|---------------------------------------|-----------------------------------|
| Persistence and degradability         | Biodegradability: not applicable. |
| Chemical oxygen demand (COD)          | Not applicable                    |
| ThOD                                  | Not applicable                    |
| BOD (% of ThOD)                       | Not applicable                    |

### 12.3. Bioaccumulative potential

| Coomassie Brilliant Blue R-250 Dye (6104-59-2) |                                    |
|--|------------------------------------|
| Bioaccumulative potential                      | No bioaccumulation data available. |

| methanol (67-56-1)        |   |
|---------------------------|---|
| BCF fish 1                | 1 - 4.5 (72 h, Cyprinus carpio, Static system, Fresh water, Experimental value) |
| Log Pow                   | -0.77 (Experimental value)  |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500).                                  |

| phosphoric acid, conc=85% (7664-38-2) |  |
|---------------------------------------|--|
| Bioaccumulative potential             | Does not contain bioaccumulative component(s). |

### 12.4. Mobility in soil

| methanol (67-56-1) |  |
|--------------------|--|
| Surface tension    | 0.023 N/m (20 °C)                                    |
| Log Koc            | 0.088 (log Koc, SRC PCKOCWIN v2.0, Calculated value) |
| Ecology - soil     | Highly mobile in soil.                               |

| phosphoric acid, conc=85% (7664-38-2) |  |
|---------------------------------------|--|
| Ecology - soil                        | No (test)data on mobility of the components available. |

### 12.5. Results of PBT and vPvB assessment

| Component          |   |
|--------------------|---|
| methanol (67-56-1) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Waste treatment methods.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

| 14.1. UN number |                  |
|-----------------|------------------|
| UN-No. (ADR)    | : Not applicable |
| UN-No. (IMDG)   | : Not applicable |
| UN-No. (IATA)   | : Not applicable |
| UN-No. (ADN)    | : Not applicable |
| UN-No. (RID)    | : Not applicable |

| 14.2. UN proper shipping name |                  |
|-------------------------------|------------------|
| Proper Shipping Name (ADR)    | : Not applicable |

# Bradford Reagent [5x]

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

|                             |                  |
|-----------------------------|------------------|
| Proper Shipping Name (IMDG) | : Not applicable |
| Proper Shipping Name (IATA) | : Not applicable |
| Proper Shipping Name (ADN)  | : Not applicable |
| Proper Shipping Name (RID)  | : Not applicable |

### 14.3. Transport hazard class(es)

#### ADR

|                                  |                  |
|----------------------------------|------------------|
| Transport hazard class(es) (ADR) | : Not applicable |
|----------------------------------|------------------|

#### IMDG

|                                   |                  |
|-----------------------------------|------------------|
| Transport hazard class(es) (IMDG) | : Not applicable |
|-----------------------------------|------------------|

#### IATA

|                                   |                  |
|-----------------------------------|------------------|
| Transport hazard class(es) (IATA) | : Not applicable |
|-----------------------------------|------------------|

#### ADN

|                                  |                  |
|----------------------------------|------------------|
| Transport hazard class(es) (ADN) | : Not applicable |
|----------------------------------|------------------|

#### RID

|                                  |                  |
|----------------------------------|------------------|
| Transport hazard class(es) (RID) | : Not applicable |
|----------------------------------|------------------|

### 14.4. Packing group

|                      |                  |
|----------------------|------------------|
| Packing group (ADR)  | : Not applicable |
| Packing group (IMDG) | : Not applicable |
| Packing group (IATA) | : Not applicable |
| Packing group (ADN)  | : Not applicable |
| Packing group (RID)  | : Not applicable |

### 14.5. Environmental hazards

|                               |  |
|-------------------------------|--|
| Dangerous for the environment | : No                                     |
| Marine pollutant              | : No                                     |
| Other information             | : No supplementary information available |

### 14.6. Special precautions for user

#### Overland transport

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

#### Inland waterway transport

Not applicable

#### Rail transport

Not applicable

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out



# Bradford Reagent [5x]

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### SECTION 16: Other information

| Full text of H- and EUH-statements: |  |
|-------------------------------------|--|
| Acute Tox. 3 (Inhalation)           | Acute toxicity (inhal.), Category 3                          |
| Acute Tox. 3 (Inhalation:vapour)    | Acute toxicity (inhalation:vapour) Category 3                |
| Acute Tox. 3 (Oral)                 | Acute toxicity (oral), Category 3                            |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2                |
| Flam. Liq. 2                        | Flammable liquids, Category 2                                |
| Skin Corr. 1B                       | Skin corrosion/irritation, Category 1B                       |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2                        |
| STOT SE 1                           | Specific target organ toxicity — Single exposure, Category 1 |
| STOT SE 2                           | Specific target organ toxicity — Single exposure, Category 2 |
| H225                                | Highly flammable liquid and vapour.                          |
| H301                                | Toxic if swallowed.  |
| H302                                | Harmful if swallowed.  |
| H314                                | Causes severe skin burns and eye damage.                     |
| H315                                | Causes skin irritation.                                      |
| H319                                | Causes serious eye irritation.                               |
| H331                                | Toxic if inhaled.  |
| H332                                | Harmful if inhaled.  |
| H370                                | Causes damage to organs.                                     |
| H371                                | May cause damage to organs.                                  |

Safety Data Sheet applicable for regions : GB - United Kingdom

SDS EU (REACH Annex II)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*



# Bradford Reagent [5x]

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  
Revision date: 5/11/2017

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture  
Product name : Bradford Reagent [5x]  
Product code : B154  
Product group : Trade product

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### 1.2.1. Relevant identified uses

No additional information available

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Geno Technology, Inc./ G-Biosciences  
9800 Page Avenue  
63132-1429 Saint Louis - United States  
T 800-628-7730 - F 314-991-1504  
[technical@GBiosciences.com](mailto:technical@GBiosciences.com) - [www.GBiosciences.com](http://www.GBiosciences.com)

#### 1.4. Emergency telephone number

Emergency number : Chemtrec **1-800-424-9300** (USA/Canada), **+1-703-527-3887** (Intl)

| Country        | Organisation/Company  | Address   | Emergency number | Comment |
|----------------|---|---|------------------|---------|
| United Kingdom | National Poisons Information Service (Belfast Centre)<br>Royal Victoria Hospital                                | Grosvenor Road<br>BT12 6BA Belfast                          | 0344 892 0111    |         |
| United Kingdom | National Poisons Information Service (Birmingham Centre)<br>City Hospital                                       | Dudley Road<br>B18 7QH Birmingham                           | 0344 892 0111    |         |
| United Kingdom | National Poisons Information Service (Cardiff Centre)<br>Gwenwyn Ward, Llandough Hospital                       | Penarth<br>CF64 2XX Cardiff                                 | 0344 892 0111    |         |
| United Kingdom | National Poisons Information Service Edinburgh<br>Royal Infirmary of Edinburgh                                  | Little France Crescent<br>EH16 4SA Edinburgh                | 0344 892 0111    |         |
| United Kingdom | Guy's & St Thomas' Poisons Unit<br>Medical Toxicology Unit,<br>Guy's & St Thomas' Hospital Trust                | Avonley Road<br>SE14 5ER London                             | +44 20 7188 7188 |         |
| United Kingdom | National Poisons Information Service (Newcastle Centre)<br>Regional Drugs and Therapeutics Centre, Wolfson Unit | Claremont Place<br>Newcastle-upon-Tyne<br>NE1 4LP Newcastle | 0344 892 0111    |         |

### SECTION 2: Hazards identification

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

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), Category 4 H302  
Acute toxicity (inhalation:dust,mist) Category 4 H332  
Skin corrosion/irritation, Category 1B H314  
Specific target organ toxicity — Single exposure, Category 1 H370  
Full text of H statements : see section 16

##### Adverse physicochemical, human health and environmental effects

Causes damage to organs. Harmful if inhaled. Harmful if swallowed. Causes severe skin burns and eye damage.

# Bradford Reagent [5x]

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS05

GHS07

GHS08

CLP Signal word

: Danger

Hazard statements (CLP)

: H302+H332 - Harmful if swallowed or if inhaled.  
H314 - Causes severe skin burns and eye damage.  
H370 - Causes damage to organs.

Precautionary statements (CLP)

: P260 - Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 - Wash hands, forearms and face thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P271 - Use only outdoors or in a well-ventilated area.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.  
P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P304+P340 - IF INHALED: Remove person to fresh air and keep 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.  
P308+P311 - IF exposed or concerned: Call a POISON CENTER or doctor.  
P310 - Immediately call a POISON CENTER or doctor.  
P312 - Call a POISON CENTRE or doctor if you feel unwell.  
P321 - Specific treatment (see supplemental first aid instruction on this label).  
P330 - Rinse mouth.  
P405 - Store locked up.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name                               | Product identifier   | %          | Classification according to Regulation (EC) No. 1272/2008 [CLP]   |
|------------------------------------|--|------------|---|
| phosphoric acid, conc=85%          | (CAS-No.) 7664-38-2<br>(EC-No.) 231-633-2<br>(EC Index-No.) 015-011-00-6 | 10 - 50    | Skin Corr. 1B, H314   |
| Deionized water                    | (CAS-No.) 7732-18-5  | 10 - 50    | Not classified  |
| methanol                           | (CAS-No.) 67-56-1<br>(EC-No.) 200-659-6<br>(EC Index-No.) 603-001-00-X   | 10 - 50    | Flam. Liq. 2, H225<br>Acute Tox. 3 (Oral), H301<br>Acute Tox. 3 (Inhalation), H331<br>Acute Tox. 3 (Inhalation:vapour), H331<br>STOT SE 1, H370 |
| Coomassie Brilliant Blue R-250 Dye | (CAS-No.) 6104-59-2<br>(EC-No.) 228-060-5                                | 0.05 - 0.5 | Not classified  |

#### Specific concentration limits:

| Name                      | Product identifier   | Specific concentration limits  |
|---------------------------|--|--|
| phosphoric acid, conc=85% | (CAS-No.) 7664-38-2<br>(EC-No.) 231-633-2<br>(EC Index-No.) 015-011-00-6 | ( 10 =<C < 25) Eye Irrit. 2, H319<br>( 10 =<C < 25) Skin Irrit. 2, H315<br>( 25 =<C < 100) Skin Corr. 1B, H314 |
| methanol                  | (CAS-No.) 67-56-1<br>(EC-No.) 200-659-6<br>(EC Index-No.) 603-001-00-X   | ( 3 =<C < 10) STOT SE 2, H371<br>( 10 =<C < 100) STOT SE 1, H370   |

Full text of H-statements: see section 16

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                                       |  |
|---------------------------------------|--|
| First-aid measures general            | : Call a physician immediately.  |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.                                |
| First-aid measures after skin contact | : Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.  |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. |
| First-aid measures after ingestion    | : Rinse mouth. Do not induce vomiting. Call a physician immediately.   |

#### 4.2. Most important symptoms and effects, both acute and delayed

|                                     |                           |
|-------------------------------------|---------------------------|
| Symptoms/effects after skin contact | : Burns.                  |
| Symptoms/effects after eye contact  | : Serious damage to eyes. |
| Symptoms/effects after ingestion    | : Burns.                  |

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

|                              |  |
|------------------------------|--|
| Suitable extinguishing media | : Water spray. Dry powder. Foam. Carbon dioxide. |
|------------------------------|--|

#### 5.2. Special hazards arising from the substance or mixture

|  |                                |
|--|--------------------------------|
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |
|--|--------------------------------|

#### 5.3. Advice for firefighters

|                                |  |
|--------------------------------|--|
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |
|--------------------------------|--|

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

|                      |   |
|----------------------|---|
| Emergency procedures | : Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. |
|----------------------|---|

##### 6.1.2. For emergency responders

|                      |   |
|----------------------|---|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
|----------------------|---|

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

|                         |   |
|-------------------------|---|
| Methods for cleaning up | : Take up liquid spill into absorbent material.                 |
| Other information       | : Dispose of materials or solid residues at an authorized site. |

#### 6.4. Reference to other sections

For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

|                               |  |
|-------------------------------|--|
| Precautions for safe handling | : Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Wear personal protective equipment. |
| Hygiene measures              | : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.                             |

#### 7.2. Conditions for safe storage, including any incompatibilities

|                    |   |
|--------------------|---|
| Storage conditions | : Store locked up. Store in a well-ventilated place. Keep cool. |
|--------------------|---|

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

| methanol (67-56-1)                |           |
|-----------------------------------|-----------|
| EU - Occupational Exposure Limits |           |
| IOELV TWA (mg/m³)                 | 260 mg/m³ |
| IOELV TWA (ppm)                   | 200 ppm   |

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| United Kingdom - Occupational Exposure Limits |                       |
|---|-----------------------|
| WEL TWA (mg/m <sup>3</sup> )                  | 266 mg/m <sup>3</sup> |
| WEL TWA (ppm)                                 | 200 ppm               |
| WEL STEL (mg/m <sup>3</sup> )                 | 333 mg/m <sup>3</sup> |
| WEL STEL (ppm)                                | 250 ppm               |

### 8.2. Exposure controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

|  |
|--|
| <b>Hand protection:</b>  |
| Protective gloves  |
| <b>Eye protection:</b>   |
| Safety glasses   |
| <b>Skin and body protection:</b>                                 |
| Wear suitable protective clothing                                |
| <b>Respiratory protection:</b>                                   |
| [In case of inadequate ventilation] wear respiratory protection. |

#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|  |                     |
|--|---------------------|
| Physical state                             | : Liquid            |
| Colour                                     | : No data available |
| Odour                                      | : No data available |
| Odour threshold                            | : No data available |
| pH   | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point                              | : Not applicable    |
| Freezing point                             | : No data available |
| Boiling point                              | : No data available |
| Flash point                                | : > 95 °C           |
| Auto-ignition temperature                  | : No data available |
| Decomposition temperature                  | : No data available |
| Flammability (solid, gas)                  | : Not applicable    |
| Vapour pressure                            | : No data available |
| Relative vapour density at 20 °C           | : No data available |
| Relative density                           | : No data available |
| Solubility                                 | : No data available |
| Log Pow                                    | : No data available |
| Viscosity, kinematic                       | : No data available |
| Viscosity, dynamic                         | : No data available |
| Explosive properties                       | : No data available |
| Oxidising properties                       | : No data available |
| Explosive limits                           | : No data available |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

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### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Hazardous decomposition products.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Harmful if swallowed.

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Harmful if inhaled.

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|                     |                          |
|---------------------|--------------------------|
| ATE CLP (oral)      | 425.532 mg/kg bodyweight |
| ATE CLP (dust,mist) | 2.128 mg/l/4h            |

#### Coomassie Brilliant Blue R-250 Dye (6104-59-2)

|               |                          |
|---------------|--------------------------|
| LD50 oral rat | > 5000 mg/kg (Rat, Oral) |
|---------------|--------------------------|

#### methanol (67-56-1)

|                            |  |
|----------------------------|--|
| LD50 oral rat              | 1187 - 2769 mg/kg bodyweight (BASF test, Rat, Male / female, Weight of evidence, Aqueous solution, Oral, 7 day(s)) |
| LD50 dermal rabbit         | 17100 mg/kg (Rabbit, Inconclusive, insufficient data, Dermal)  |
| LC50 inhalation rat (mg/l) | 128.2 mg/l air (BASF test, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours))                      |

Skin corrosion/irritation : Causes severe skin burns and eye damage.

Serious eye damage/irritation : Serious eye damage, category 1, implicit

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Causes damage to organs.

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Before neutralisation, the product may represent a danger to aquatic organisms.

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : Not classified

#### methanol (67-56-1)

|                |  |
|----------------|--|
| LC50 fish 1    | 15400 mg/l (EPA 660/3 - 75/009, 96 h, Lepomis macrochirus, Flow-through system, Fresh water, Experimental value, Lethal)                                 |
| EC50 Daphnia 1 | 18260 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 96 h, Daphnia magna, Semi-static system, Fresh water, Experimental value, Locomotor effect) |
| ErC50 (algae)  | 22000 mg/l (OECD 201: Alga, Growth Inhibition Test, 96 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value)               |

#### phosphoric acid, conc=85% (7664-38-2)

|             |                                   |
|-------------|-----------------------------------|
| LC50 fish 1 | 138 mg/l (Pisces, Pure substance) |
|-------------|-----------------------------------|

### 12.2. Persistence and degradability

#### Coomassie Brilliant Blue R-250 Dye (6104-59-2)

|                               |   |
|-------------------------------|---|
| Persistence and degradability | Biodegradability in water: no data available. |
|-------------------------------|---|

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| methanol (67-56-1)              |  |
|---------------------------------|--|
| Persistence and degradability   | Readily biodegradable in the soil. Readily biodegradable in water. |
| Biochemical oxygen demand (BOD) | 0.6 - 1.12 g O <sub>2</sub> /g substance                           |
| Chemical oxygen demand (COD)    | 1.42 g O <sub>2</sub> /g substance                                 |
| ThOD                            | 1.5 g O <sub>2</sub> /g substance                                  |

| phosphoric acid, conc=85% (7664-38-2) |                                   |
|---------------------------------------|-----------------------------------|
| Persistence and degradability         | Biodegradability: not applicable. |
| Chemical oxygen demand (COD)          | Not applicable                    |
| ThOD                                  | Not applicable                    |
| BOD (% of ThOD)                       | Not applicable                    |

### 12.3. Bioaccumulative potential

| Coomassie Brilliant Blue R-250 Dye (6104-59-2) |                                    |
|--|------------------------------------|
| Bioaccumulative potential                      | No bioaccumulation data available. |

| methanol (67-56-1)        |   |
|---------------------------|---|
| BCF fish 1                | 1 - 4.5 (72 h, Cyprinus carpio, Static system, Fresh water, Experimental value) |
| Log Pow                   | -0.77 (Experimental value)  |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500).                                  |

| phosphoric acid, conc=85% (7664-38-2) |  |
|---------------------------------------|--|
| Bioaccumulative potential             | Does not contain bioaccumulative component(s). |

### 12.4. Mobility in soil

| methanol (67-56-1) |  |
|--------------------|--|
| Surface tension    | 0.023 N/m (20 °C)                                    |
| Log Koc            | 0.088 (log Koc, SRC PCKOCWIN v2.0, Calculated value) |
| Ecology - soil     | Highly mobile in soil.                               |

| phosphoric acid, conc=85% (7664-38-2) |  |
|---------------------------------------|--|
| Ecology - soil                        | No (test)data on mobility of the components available. |

### 12.5. Results of PBT and vPvB assessment

| Component          |   |
|--------------------|---|
| methanol (67-56-1) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Waste treatment methods.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

| 14.1. UN number |                  |
|-----------------|------------------|
| UN-No. (ADR)    | : Not applicable |
| UN-No. (IMDG)   | : Not applicable |
| UN-No. (IATA)   | : Not applicable |
| UN-No. (ADN)    | : Not applicable |
| UN-No. (RID)    | : Not applicable |

| 14.2. UN proper shipping name |                  |
|-------------------------------|------------------|
| Proper Shipping Name (ADR)    | : Not applicable |

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|                             |                  |
|-----------------------------|------------------|
| Proper Shipping Name (IMDG) | : Not applicable |
| Proper Shipping Name (IATA) | : Not applicable |
| Proper Shipping Name (ADN)  | : Not applicable |
| Proper Shipping Name (RID)  | : Not applicable |

### 14.3. Transport hazard class(es)

#### ADR

|                                  |                  |
|----------------------------------|------------------|
| Transport hazard class(es) (ADR) | : Not applicable |
|----------------------------------|------------------|

#### IMDG

|                                   |                  |
|-----------------------------------|------------------|
| Transport hazard class(es) (IMDG) | : Not applicable |
|-----------------------------------|------------------|

#### IATA

|                                   |                  |
|-----------------------------------|------------------|
| Transport hazard class(es) (IATA) | : Not applicable |
|-----------------------------------|------------------|

#### ADN

|                                  |                  |
|----------------------------------|------------------|
| Transport hazard class(es) (ADN) | : Not applicable |
|----------------------------------|------------------|

#### RID

|                                  |                  |
|----------------------------------|------------------|
| Transport hazard class(es) (RID) | : Not applicable |
|----------------------------------|------------------|

### 14.4. Packing group

|                      |                  |
|----------------------|------------------|
| Packing group (ADR)  | : Not applicable |
| Packing group (IMDG) | : Not applicable |
| Packing group (IATA) | : Not applicable |
| Packing group (ADN)  | : Not applicable |
| Packing group (RID)  | : Not applicable |

### 14.5. Environmental hazards

|                               |  |
|-------------------------------|--|
| Dangerous for the environment | : No                                     |
| Marine pollutant              | : No                                     |
| Other information             | : No supplementary information available |

### 14.6. Special precautions for user

#### Overland transport

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

#### Inland waterway transport

Not applicable

#### Rail transport

Not applicable

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out



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### SECTION 16: Other information

| Full text of H- and EUH-statements: |  |
|-------------------------------------|--|
| Acute Tox. 3 (Inhalation)           | Acute toxicity (inhal.), Category 3                          |
| Acute Tox. 3 (Inhalation:vapour)    | Acute toxicity (inhalation:vapour) Category 3                |
| Acute Tox. 3 (Oral)                 | Acute toxicity (oral), Category 3                            |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2                |
| Flam. Liq. 2                        | Flammable liquids, Category 2                                |
| Skin Corr. 1B                       | Skin corrosion/irritation, Category 1B                       |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2                        |
| STOT SE 1                           | Specific target organ toxicity — Single exposure, Category 1 |
| STOT SE 2                           | Specific target organ toxicity — Single exposure, Category 2 |
| H225                                | Highly flammable liquid and vapour.                          |
| H301                                | Toxic if swallowed.  |
| H302                                | Harmful if swallowed.  |
| H314                                | Causes severe skin burns and eye damage.                     |
| H315                                | Causes skin irritation.                                      |
| H319                                | Causes serious eye irritation.                               |
| H331                                | Toxic if inhaled.  |
| H332                                | Harmful if inhaled.  |
| H370                                | Causes damage to organs.                                     |
| H371                                | May cause damage to organs.                                  |

Safety Data Sheet applicable for regions : GB - United Kingdom

SDS EU (REACH Annex II)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*