



# Safety Data Sheet

Cat. # 786-503

**Acrylamide/ Bisacrylamide (37.5:1); Premixed Powder**

Size: 40g





# Acrylamide/ Bisacrylamide (37.5:1) Powder

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  
Date of issue: 4/26/2013 Revision date: 5/11/2017 Version: 1.1

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : Acrylamide/ Bisacrylamide (37.5:1) Powder  
Product code : 044A  
Product group : Blend

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

##### 1.2.1. Relevant identified uses

Main use category : Research purposes

##### 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, Guy's & St Thomas' Hospital Trust                   | Avonley Road<br>SE14 5ER London                             | 0870 243 2241    |         |
| 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 3 H301  
Acute toxicity (dermal), Category 4 H312  
Acute toxicity (inhalation:dust,mist) Category 4 H332  
Skin corrosion/irritation, Category 2 H315  
Serious eye damage/eye irritation, Category 2 H319  
Skin sensitisation, Category 1 H317  
Germ cell mutagenicity, Category 1B H340  
Carcinogenicity, Category 1B H350  
Reproductive toxicity, Category 2 H361  
Specific target organ toxicity — Repeated exposure, Category 1 H372

Full text of H statements : see section 16

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### Adverse physicochemical, human health and environmental effects

May cause cancer. May cause genetic defects. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. Toxic if swallowed. Harmful in contact with skin. Harmful if inhaled. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.

## 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS06

GHS08

CLP Signal word :

Danger

Hazardous ingredients :

acrylamide, stabilized; N,N'-methylenebisacrylamide

Hazard statements (CLP) :

H301 - Toxic if swallowed.  
H312+H332 - Harmful in contact with skin or if inhaled.  
H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H319 - Causes serious eye irritation.  
H340 - May cause genetic defects.  
H350 - May cause cancer.  
H361 - Suspected of damaging fertility or the unborn child.  
H372 - Causes damage to organs through prolonged or repeated exposure.

Precautionary statements (CLP) :

P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
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.  
P272 - Contaminated work clothing should not be allowed out of the workplace.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.  
P302+P352 - IF ON SKIN: Wash with plenty of water.  
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+P313 - IF exposed or concerned: Get medical advice/attention.  
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.  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
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

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| Name   | Product identifier   | %     | Classification according to Regulation (EC) No. 1272/2008 [CLP]  |
|--|--|-------|--|
| acrylamide, stabilized<br>substance listed as REACH Candidate (Acrylamide) | (CAS-No.) 79-06-1<br>(EC-No.) 201-173-7<br>(EC Index-No.) 616-003-00-0 | >= 80 | Acute Tox. 3 (Oral), H301<br>Acute Tox. 4 (Dermal), H312<br>Acute Tox. 4 (Inhalation), H332<br>Acute Tox. 4 (Inhalation:dust,mist), H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>Muta. 1B, H340<br>Carc. 1B, H350<br>Repr. 2, H361f<br>STOT RE 1, H372 |
| N,N'-methylenebisacrylamide  | (CAS-No.) 110-26-9<br>(EC-No.) 203-750-9                               | 2 - 5 | Acute Tox. 4 (Oral), H302<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335  |

Full text of H-statements: see section 16

### 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 : Take off immediately all contaminated clothing. Wash skin with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Rinse mouth. Call a physician immediately.

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

- Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.
- Symptoms/effects after eye contact : Eye irritation.

#### 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.

#### 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 : Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe dust/fume/gas/mist/vapours/spray.

##### 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. Notify authorities if product enters sewers or public waters.

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

- Methods for cleaning up : Mechanically recover the product. Notify authorities if product enters sewers or public waters.
- Other information : Dispose of materials or solid residues at an authorized site.

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### 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 : Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Wear personal protective equipment. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing.

Hygiene measures : Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. 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.

Storage temperature : ambient temperature

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| acrylamide, stabilized (79-06-1) |                              |                       |
|----------------------------------|------------------------------|-----------------------|
| United Kingdom                   | WEL TWA (mg/m <sup>3</sup> ) | 0.3 mg/m <sup>3</sup> |

### 8.2. Exposure controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Hand protection:

Protective gloves

#### Eye protection:

Safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

[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 : Solid

Appearance : Powder.

Colour : White.

Odour : None.

Odour threshold : No data available

pH : No data available

Relative evaporation rate (butylacetate=1) : No data available

Melting point : No data available

Freezing point : Not applicable

Boiling point : No data available

Flash point : Not applicable

Auto-ignition temperature : Not applicable

Decomposition temperature : No data available

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|                                  |                     |
|----------------------------------|---------------------|
| Flammability (solid, gas)        | : Non flammable.    |
| Vapour pressure                  | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative density                 | : Not applicable    |
| Solubility                       | : No data available |
| Log Pow                          | : No data available |
| Viscosity, kinematic             | : Not applicable    |
| Viscosity, dynamic               | : No data available |
| Explosive properties             | : No data available |
| Oxidising properties             | : No data available |
| Explosive limits                 | : Not applicable    |

### 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.

### 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)       | : Oral: Toxic if swallowed.                 |
| Acute toxicity (dermal)     | : Dermal: Harmful in contact with skin.     |
| Acute toxicity (inhalation) | : Inhalation:dust,mist: Harmful if inhaled. |

|                     |                          |
|---------------------|--------------------------|
| ATE CLP (oral)      | 126.23 mg/kg bodyweight  |
| ATE CLP (dermal)    | 1935.12 mg/kg bodyweight |
| ATE CLP (dust,mist) | 1.54 mg/l/4h             |

|   |                     |
|---|---------------------|
| <b>acrylamide, stabilized (79-06-1)</b> |                     |
| LD50 oral rat                           | 124 mg/kg (Rat)     |
| LD50 dermal rabbit                      | 1885 mg/kg (Rabbit) |

|   |                 |
|---|-----------------|
| <b>N,N'-methylenebisacrylamide (110-26-9)</b> |                 |
| LD50 oral rat                                 | 390 mg/kg (Rat) |

|                                   |   |
|-----------------------------------|---|
| Skin corrosion/irritation         | : Causes skin irritation.   |
| Serious eye damage/irritation     | : Causes serious eye irritation.                                  |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction.                            |
| Germ cell mutagenicity            | : May cause genetic defects.                                      |
| Carcinogenicity                   | : May cause cancer.   |
| Reproductive toxicity             | : Suspected of damaging fertility or the unborn child.            |
| STOT-single exposure              | : Not classified  |
| STOT-repeated exposure            | : Causes damage to organs through prolonged or repeated exposure. |
| Aspiration hazard                 | : Not classified  |

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### SECTION 12: Ecological information

#### 12.1. Toxicity

|                          |                            |
|--------------------------|----------------------------|
| Ecology - general        | : Harmful to aquatic life. |
| Acute aquatic toxicity   | : Not classified           |
| Chronic aquatic toxicity | : Not classified           |

#### acrylamide, stabilized (79-06-1)

|                |   |
|----------------|---|
| LC50 fish 1    | 110 mg/l (96 h, Salmo gairdneri, Flow-through system) |
| EC50 Daphnia 1 | 98 mg/l (48 h, Daphnia magna)                         |

#### 12.2. Persistence and degradability

#### acrylamide, stabilized (79-06-1)

|                                 |  |
|---------------------------------|--|
| Persistence and degradability   | Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Readily biodegradable in water. |
| Biochemical oxygen demand (BOD) | 0.97 g O <sub>2</sub> /g substance   |
| Chemical oxygen demand (COD)    | 1.3 g O <sub>2</sub> /g substance  |
| ThOD                            | 2.14 g O <sub>2</sub> /g substance   |
| BOD (% of ThOD)                 | 0.45   |

#### N,N'-methylenebisacrylamide (110-26-9)

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

#### 12.3. Bioaccumulative potential

#### acrylamide, stabilized (79-06-1)

|                           |                                     |
|---------------------------|-------------------------------------|
| BCF fish 1                | 25.7 mg/kg (480 h, Oryzias latipes) |
| BCF fish 2                | 7.4 mg/kg (960 h, Cyprinus carpio)  |
| Log Pow                   | -0.67 (Experimental value)          |
| Bioaccumulative potential | Not bioaccumulative.                |

#### N,N'-methylenebisacrylamide (110-26-9)

|                           |                                    |
|---------------------------|------------------------------------|
| Bioaccumulative potential | No bioaccumulation data available. |
|---------------------------|------------------------------------|

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

| Component                        |   |
|----------------------------------|---|
| acrylamide, stabilized (79-06-1) | 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)  | : 2074           |
| UN-No. (IMDG) | : 2074           |
| UN-No. (IATA) | : 2074           |
| UN-No. (ADN)  | : Not applicable |
| UN-No. (RID)  | : 2074           |

#### 14.2. UN proper shipping name

|                                      |                     |
|--------------------------------------|---------------------|
| Proper Shipping Name (ADR)           | : Not applicable    |
| Proper Shipping Name (IMDG)          | : Not applicable    |
| Proper Shipping Name (IATA)          | : Not applicable    |
| Proper Shipping Name (ADN)           | : Not applicable    |
| Proper Shipping Name (RID)           | : Not applicable    |
| Transport document description (ADR) | : UN 2074, 6.1, III |

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|                                       |                      |
|---------------------------------------|----------------------|
| Transport document description (IMDG) | : UN 2074 , 6.1, III |
| Transport document description (IATA) | : UN 2074 , 6.1      |
| Transport document description (RID)  | : UN 2074 , 6.1      |

### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) : 6.1

#### IMDG

Transport hazard class(es) (IMDG) : 6.1

#### IATA

Transport hazard class(es) (IATA) : 6.1

#### ADN

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

#### RID

Transport hazard class(es) (RID) : 6.1

### 14.4. Packing group

|                      |                  |
|----------------------|------------------|
| Packing group (ADR)  | : III            |
| Packing group (IMDG) | : III            |
| 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

|                           |      |
|---------------------------|------|
| Classification code (ADR) | : T2 |
| Vehicle for tank carriage | : AT |
| Transport category (ADR)  | : 2  |

#### - Transport by sea

No data available

#### - Air transport

No data available

#### - Inland waterway transport

No data available

#### - Rail transport

No data available

### 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 a substance on the REACH candidate list in concentration  $\geq 0.1\%$  or with a lower specific limit: Acrylamide (EC 201-173-7, CAS 79-06-1)

Contains no REACH Annex XIV substances



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### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Full text of H- and EUH-statements:

|                                     |  |
|-------------------------------------|--|
| Acute Tox. 3 (Oral)                 | Acute toxicity (oral), Category 3  |
| Acute Tox. 4 (Dermal)               | Acute toxicity (dermal), Category 4  |
| Acute Tox. 4 (Inhalation)           | Acute toxicity (inhal.), Category 4  |
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4   |
| Acute Tox. 4 (Oral)                 | Acute toxicity (oral), Category 4  |
| Carc. 1B                            | Carcinogenicity, Category 1B   |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2  |
| Muta. 1B                            | Germ cell mutagenicity, Category 1B  |
| Repr. 2                             | Reproductive toxicity, Category 2  |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2  |
| Skin Sens. 1                        | Skin sensitisation, Category 1   |
| STOT RE 1                           | Specific target organ toxicity — Repeated exposure, Category 1                             |
| STOT SE 3                           | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |
| H301                                | Toxic if swallowed.  |
| H302                                | Harmful if swallowed.  |
| H312                                | Harmful in contact with skin.  |
| H315                                | Causes skin irritation.  |
| H317                                | May cause an allergic skin reaction.   |
| H319                                | Causes serious eye irritation.   |
| H332                                | Harmful if inhaled.  |
| H335                                | May cause respiratory irritation.  |
| H340                                | May cause genetic defects.   |
| H350                                | May cause cancer.  |
| H361                                | Suspected of damaging fertility or the unborn child.                                       |
| H361f                               | Suspected of damaging fertility.   |
| H372                                | Causes damage to organs through prolonged or repeated exposure.                            |

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*