



# SAFETY DATA SHEET

Revision Date **15-May-2012**

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product Name** Acrylamide / bis-Acrylamide 37.5:1

**Recommended Use** For research use only  
**Registration Number** No information available

### 1.1 Product Identifier

**Catalog Number:** BIAC3753

**Supplier:** MP Biomedicals, LLC  
29525 Fountain Parkway  
Solon, OH 44139  
tel: 440-337-1200

**Emergency Telephone Number:** CHEMTREC: 1-800-424-9300 (1-703-527-3887)

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

## 2. HAZARDS IDENTIFICATION

### GHS - Classification

Acute Oral Toxicity	Category 3
Acute Dermal Toxicity	Category 3
Acute Inhalation Toxicity - Dusts and Mists	Category 2
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2A
Respiratory Sensitization	Category 1
Skin Sensitization	Category 1
Germ Cell Mutagenicity	Category 1B
Carcinogenicity	Category 1B
Reproductive Toxicity	Category 2

### GHS Label elements, including precautionary statements

**Physical Hazards** None



**Signal Word**

Danger

**Precautionary Statements**

- P301+ P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- P270 - Do not eat, drink or smoke when using this product
- P301+ P310 - IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician
- P330 - Rinse mouth
- P312 - Call a POISON CENTER/doctor/physician if you feel unwell
- P322 - Specific measures (see .? on this label)
- P361 - Remove/Take off immediately all contaminated clothing
- P260 - Do not breathe dust/fume/gas/mist/vapors/spray
- P271 - Use only outdoors or in a well-ventilated area
- P284 - Wear respiratory protection
- P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- P310 - Immediately call a POISON CENTRE or doctor/physician
- P320 - Specific treatment is urgent (see .? on this label)
- P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
- P332 + P313 - If skin irritation occurs: Get medical advice/attention
- P362 - Take off contaminated clothing and wash before reuse
- P264 - Wash face, hands and any exposed skin thoroughly after handling
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P337 + P313 - If eye irritation persists: Get medical advice/attention
- P285 - In case of inadequate ventilation wear respiratory protection
- P304 + P341 - IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing
- P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician
- P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
- P272 - Contaminated work clothing should not be allowed out of the workplace
- P280 - Wear protective gloves/protective clothing/eye protection/face protection
- P302+ P352 - IF ON SKIN: Wash with plenty of soap and water
- P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention
- P321 - Specific treatment (see supplemental first aid instructions on this label)
- P363 - Wash contaminated clothing before reuse
- P201 - Obtain special instructions before use
- P202 - Do not handle until all safety precautions have been read and understood
- P281 - Use personal protective equipment as required
- P308 + P313 - IF exposed or concerned: Get medical attention/advice
- P405 - Store locked up
- P273 - Avoid release to the environment
- P501 - Dispose of contents/container to an approved waste disposal plant

**NFPA rating:**

<b>NFPA Health:</b>	2
<b>NFPA Flammability:</b>	0
<b>NFPA Reactivity:</b>	0
<b>NFPA Special Note:</b>	-

**Precautionary Statements**

**Prevention**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wear respiratory protection. In case of inadequate ventilation wear respiratory protection. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment.

**General advice**

IF exposed or concerned: Get medical attention/advice. Specific treatment (see supplemental first aid instructions on this label). Specific measures (see supplemental first aid instructions on this label). Specific treatment is urgent (see supplemental instructions on the administration of antidotes on this label). Specific treatment (see supplemental instructions on the administration of antidotes on this label).

<b>Eyes</b>	IF IN EYES: Inse 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
<b>Skin</b>	IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/physician if you feel unwell. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.
<b>Inhalation</b>	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
<b>Ingestion</b>	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth
<b>Storage</b>	Store locked up. Store in a well-ventilated place. Keep container tightly closed
<b>Disposal</b>	Dispose of contents of container to an approved waste disposal plant

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Synonyms: None

Chemical Name	EEC No.	CAS Number	Weight %	Classification (67/548)	Classification (Reg. 1272/2008)	REACH Registration Number
Water	EEC No. 231-791-2	7732-18-5	60	-		No data available
ACRYLAMIDE	EEC No. 201-173-7	79-06-1	38.96	Xn; R20/21 T; R25-48/23/24/25 Xi; R36/38 R43 Carc.Cat.2; R45 Muta.Cat.2; R46 Repr.Cat.3; R62	Acute Tox. 4 (H312) D GHS06 GHS08 (Dgr) H350 H340 H361f H301 H372 H332 H312 H319 H315 H317 STOT RE 1 (H372) D Carc. 1B (H350) D Repr. 2 (H361f) D Acute Tox. 4 (H332) D	No data available
N,N'-METHYLENE-bis-ACRYLAMIDE	EEC No. 203-750-9	110-26-9	1.04	Xn		No data available

For the full text of the R phrases and H statements mentioned in this section, see Section 2

### 4. FIRST AID MEASURES

#### 4.1 Description of first-aid measures

<b>General Advice</b>	If symptoms persist, call a physician.
<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>Skin Contact</b>	Rinse immediately with plenty of water and seek medical advice
<b>Inhalation</b>	Move to fresh air. Consult a physician.
<b>Ingestion</b>	Clean mouth with water and afterwards drink plenty of water.

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

**Main Symptoms** No information available

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

**Notes to Physician** Treat symptomatically.

### **5. FIRE-FIGHTING MEASURES**

#### 5.1 Extinguishing media

##### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

##### **Extinguishing media which must not be used for safety reasons**

No information available

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

No information available.

#### 5.3 Advice for firefighters

No information available.

### **6. ACCIDENTAL RELEASE MEASURES**

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

Ensure adequate ventilation.

See Section 12 for additional information.

#### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so.

#### 6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material. Prevent product from entering drains.

#### 6.4 Reference to other sections

See Section 12 for additional information

### **7. HANDLING AND STORAGE**

#### **Storage**

+4°C

PROTECT FROM LIGHT

#### 7.1 Precautions for safe handling

Wear personal protective equipment. Remove and wash contaminated clothing before re-use. Use only in area provided with appropriate exhaust ventilation.

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

Keep containers tightly closed in a cool, well-ventilated place

### 7.3 Specific end uses

#### Exposure Scenario

No information available

#### Other Guidelines

No information available

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Exposure Limits

Chemical Name	European Union	The United Kingdom	France	Spain	Germany
ACRYLAMIDE		TWA: 0.3 mg/m <sup>3</sup> STEL: 0.9 mg/m <sup>3</sup>	TWA: 0.1 ppm TWA: 0.3 mg/m <sup>3</sup>	TWA: 0.03 mg/m <sup>3</sup> S*	

Chemical Name	Italy	Portugal	The Netherlands	Finland	Denmark
ACRYLAMIDE	0.03 mg/m <sup>3</sup>	TWA: 0.03 mg/m <sup>3</sup> VLE-MP	TWA: 0.16 mg/m <sup>3</sup> Skin	TWA: 0.3 mg/m <sup>3</sup> STEL: 0.9 mg/m <sup>3</sup>	TWA: 0.03 mg/m <sup>3</sup>

Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
ACRYLAMIDE	Skin 0.03 mg/m <sup>3</sup>	Skin TWA: 0.03 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup> NDS	Skin notation	TWA: 0.03 mg/m <sup>3</sup>

**Derived No Effect Level (DNEL)** No information available

**Predicted No Effect Concentration (PNEC)** No information available

### 8.2 Exposure controls

**Engineering Measures** Ensure adequate ventilation, especially in confined areas.

#### Personal Protective Equipment

**Eye Protection** Tightly fitting safety goggles

**Skin and Body Protection** Long sleeved clothing

**Hand Protection** Protective gloves

**Respiratory Protection** No special protective equipment required.

**Environmental Exposure Controls** No information available.

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

#### Appearance

**Physical State** Liquid.

#### Physical Property Data

**pH Value** No data available

**Flash Point** No information available

**Autoignition Temperature** No data available

**Melting/Freezing Point**

**Boiling Point (°C)** No information available.

<b>Vapor Pressure</b>	No data available
<b>Vapor Density</b>	No information available
<b>Water Solubility</b>	No data available
<b>Evaporation Rate</b>	No data available.
<b>Flammability (solid, gas)</b>	No data available
<b>Flammability Limits in Air</b>	
upper flammability limit	No data available
lower flammability limit	No data available
<b>Density</b>	No data available
<b>Specific Gravity</b>	No data available.
<b>Decomposition Temperature</b>	No data available
<b>Viscosity, Kinematic</b>	No data available.
<b>Viscosity, Dynamic</b>	No data available.
<b>Explosive Properties</b>	No information available.
<b>Oxidizing Properties</b>	No information available
<b>VOC Content (%)</b>	No information available

## 9.2 Other Safety Information

Other Safety Information

# 10. STABILITY AND REACTIVITY

## 10.1 Reactivity

No data available

## 10.2 Chemical stability

Stable under recommended storage conditions.

## 10.3

### Possibility of hazardous reactions

None under normal processing.

## 10.4 Conditions to avoid

None in particular

## 10.5 Incompatible Materials

Acids. Bases. Oxidising agents. Iron. Copper. A reducing agent. Aluminum. Brass.

## 10.6 Hazardous Decomposition Products

None under normal processing.

# 11. TOXICOLOGICAL INFORMATION

## 11.1 Information on toxicological effects

<b>Acute Toxicity</b>	Product does not present an acute toxicity hazard based on known or supplied information
<b>Inhalation</b>	No information available.
<b>Eye Irritation</b>	No information available.
<b>Acute toxicity</b> 0% of the mixture consists of ingredient(s) of unknown toxicity	

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water 7732-18-5	90 mL/kg ( Rat )		

ACRYLAMIDE 79-06-1	124 mg/kg ( Rat )	400 mg/kg (Rat) 1680 µL/kg (Rabbit)	
N,N'-METHYLENE-bis- ACRYLAMIDE 110-26-9	390 mg/kg ( Rat )		

<b>Mutagenic Effects</b>	Contains no ingredient listed as a mutagen.
<b>Carcinogenic Effects</b>	Substances which should be regarded as if they are carcinogenic to man
<b>Reproductive Toxicity</b>	None known
<b>Developmental Toxicity</b>	None known.
<b>Aspiration hazard</b>	None known

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants.

Chemical Name	Ecotoxicity - Freshwater Algae - Acute Toxicity Data	Ecotoxicity - Freshwater Fish - Acute Toxicity Data	Ecotoxicity - Water Flea - Acute Toxicity Data
ACRYLAMIDE 79-06-1		LC50 (96 h) 81 - 150mg/L (Lepomis macrochirus) flow-through LC50 (96 h) 103 - 115mg/L (Pimephales promelas) flow-through LC50 (96 h) 137 - 191mg/L (Oncorhynchus mykiss) static LC50 (96 h) 74 - 150mg/L (Oncorhynchus mykiss) flow-through LC50 (96 h) 124mg/L (Pimephales promelas) static	EC50 (48 h) 98 mg/L

### 12.2 Persistence and degradability

No data is available on the product itself

### 12.3 Bioaccumulative potential

No information available

Chemical Name	Log Pow
ACRYLAMIDE 79-06-1	-1.24

### 12.4 Mobility in soil

No information available

### 12.5 Results of PBT and vPvB assessment

No information available.

### 12.6 Other adverse effects

**Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors

## 13. DISPOSAL CONSIDERATIONS

**Waste from Residues/Unused Products**

Dispose of in accordance with local regulations

**Contaminated Packaging**

Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. TRANSPORT INFORMATION

**IMDG/IMO**

<b>Proper Shipping Name</b>	Acrylamide solution
<b>Hazard Class</b>	6.1 - Toxic - oral
<b>UN/ID No</b>	UN3426
<b>Packing Group</b>	III
<b>Marine Pollutant</b>	No

**ICAO**

<b>Hazard class</b>	6.1 - Toxic - oral
<b>UNID No.</b>	UN3426
<b>Proper Shipping Name</b>	Acrylamide solution
<b>Packing Group</b>	III

**ICAO/IATA**

<b>Hazard Class</b>	6.1 - Toxic - oral
<b>UN/ID No.</b>	UN3426
<b>Proper Shipping Name</b>	Acrylamide solution
<b>Packing Group</b>	III
<b>EGR Code</b>	153P

**DOT**

<b>Proper shipping name</b>	Acrylamide solution
<b>Hazard class</b>	6.1 - Toxic - oral
<b>UN/ID No</b>	UN3426
<b>Packing Group</b>	III
<b>Marine Polutant</b>	No

**TDG**

<b>Proper Shipping Name</b>	Acrylamide solution
<b>Hazard Class</b>	6.1 - Toxic - oral
<b>UN/ID No</b>	UN3426
<b>Packing Group</b>	III
<b>WHMIS Classifications</b>	D1a, D2a, D2b

**MEX**

<b>Proper Shipping Name</b>	Acrylamide solution
<b>Hazard Class</b>	6.1 - Toxic - oral
<b>UN/ID No</b>	UN3426
<b>Packaging Group</b>	III



## 15. REGULATORY INFORMATION

### International Inventories

Chemical Name	TSCA	EINECS / ELINCS	DSL / NDSL	PICCS	ENCS	IECSC	AICS	KECL
Water	Listed	Listed	Listed	Listed		Listed	Listed	Listed
ACRYLAMIDE	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed
N,N'-METHYLENE-bis-ACRYLAMIDE	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed

### Legend

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances / EU List of Notified Chemical Substances  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**PICCS** - Philippine Inventory of Chemicals and Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances

Chemical Name	ISHA - Harmful substances prohibited for manufacturing, Importing, Transferring, or Supplying	Korea - Harmful substances Requiring Permission	Korea Toxic Chemical Classification Lis	Toxic Release Inventory Chemicals - Group 1	Toxic Release Inventory Chemicals - Group 2
ACRYLAMIDE			Listed		

## 16. OTHER INFORMATION

### Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text

End of Material Safety Data Sheet

Key literature references and sources for data  
[www.ChemADVISOR.com/](http://www.ChemADVISOR.com/)