



SAFETY DATA SHEET

Revision Date **26-Mar-2012**

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

Product Name Acrylamide / bis-Acrylamide 29:1

Recommended Use For research use only
Registration Number No information available

1.1 Product Identifier

Catalog Number: BIAC2902

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 4 |
| Acute Dermal Toxicity | Category 3 |
| Skin Corrosion/Irritation | Category 2 |
| Serious Eye Damage/Eye Irritation | Category 2A |
| Skin Sensitization | Category 1 |
| Germ Cell Mutagenicity | Category 1B |
| Carcinogenicity | Category 2 |
| Reproductive Toxicity | Category 2 |

GHS Label elements, including precautionary statements

Physical Hazards None

Not Hazardous Not classified

Precautionary Statements

P270 - Do not eat, drink or smoke when using this product
P301+ P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
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
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
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:

| | |
|---------------------------|---|
| NFPA Health: | 2 |
| NFPA Flammability: | 0 |
| NFPA Reactivity: | 0 |
| NFPA Special Note: | - |

Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace.

General advice

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

Eyes

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

Skin

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.

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Storage

Rinse mouth

Disposal

Store locked up

Dispose of contents of container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms: Not Available

| Chemical Name | EC 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 | 38.67 | 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 | 1.33 | 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

| | |
|-----------------------|---|
| General Advice | If symptoms persist, call a physician. |
| Eye Contact | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| Skin Contact | Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. |
| Inhalation | Move to fresh air. |
| Rinse mouth | 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

No information available.

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

Ensure adequate 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 ³ STEL: 0.9 mg/m ³ | TWA: 0.1 ppm TWA: 0.3 mg/m ³ | TWA: 0.03 mg/m ³ S* | |

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

| Chemical Name | Austria | Switzerland | Poland | Norway | Ireland |
|---------------|--------------------------------|-------------------------------------|--------------------------------|---------------|-----------------------------|
| ACRYLAMIDE | Skin 0.03 mg/m ³ | Skin TWA: 0.03 mg/m ³ | TWA: 0.1 mg/m ³ NDS | Skin notation | TWA: 0.03 mg/m ³ |

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

None in particular

10.6 Hazardous Decomposition Products

None under normal processing.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

| | |
|-----------------------|--|
| Acute Toxicity | Product does not present an acute toxicity hazard based on known or supplied information |
| Inhalation | No information available. |
| Eye Irritation | No information available. |
| Acute toxicity | 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) | | |

| | |
|-------------------------------|---|
| Mutagenic Effects | Contains no ingredient listed as a mutagen. |
| Carcinogenic Effects | None known. |
| Reproductive Toxicity | None known |
| Developmental Toxicity | None known. |
| Aspiration hazard | 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 | EC5098mg/L48h |

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

Proper Shipping Name Acrylamide solution
Hazard Class 6.1

14. TRANSPORT INFORMATION

UN/ID No UN3426
Packing Group III

ICAO

Hazard class 6.1
UN/ID No. UN3426
Proper Shipping Name Acrylamide solution
Packing Group III

ICAO/IATA

Hazard Class 6.1
UN/ID No. UN3426
Proper Shipping Name Acrylamide solution
Packing Group III
EGR Code 153P

DOT

Proper shipping name Acrylamide solution
Hazard class 6.1
UN/ID No UN3426
Packing Group III

TDG

Proper Shipping Name Acrylamide solution
Hazard Class 6.1
UN/ID No UN3426
Packing Group III

Canada - WHMIS: Classifications D1B, D2A, D2B

MEX

Proper Shipping Name Acrylamide solution
Hazard Class 6.1
UN/ID No UN3426
Packaging Group 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 |
| ACRYLAMID E | Listed | Listed | Listed | Listed | Listed | Listed | Listed | Listed |
| N,N'-METHYLENE-bis-ACRYLAMID E | 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/