



SAFETY DATA SHEET

Revision Date **15-May-2012**

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

Product Name Acrylamide / bis-Acrylamide 19:1

Recommended Use For research use only
Registration Number No information available

1.1 Product Identifier

Catalog Number: BIAC1903

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
- P273 - Avoid release to the environment
- 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
- 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

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.

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).

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.
Inhalation	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.
Ingestion	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth
Storage	Store locked up. Store in a well-ventilated place. Keep container tightly closed
Disposal	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	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	2	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. Consult a physician.
Inhalation	Move to fresh air. Consult a physician.
Ingestion	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

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 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

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

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
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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	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

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

ICAO

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

ICAO/IATA

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

DOT

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

TDG

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

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/