



SAFETY DATA SHEET

Revision Date **22-Mar-2012**

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

Product Name ACRYLAMIDE, ULTRA PURE

Recommended Use For research use only
Registration Number No information available

1.1 Product Identifier

Catalog Number: 814320

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

GHS Label elements, including precautionary statements

Physical Hazards None

Risk Code

R48/23/24/25 - Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.

R24/25 - Toxic in contact with skin and if swallowed.

R46 - May cause heritable genetic damage.

R45 - May cause cancer.

Risk Combination Phrases

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s)

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

S53 - Avoid exposure - obtain special instructions before use.



Signal Word

Danger

Precautionary Statements

- P264 - Wash face, hands and any exposed skin thoroughly after handling
- P270 - Do not eat, drink or smoke when using this product
- P301+ P310 - IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician
- P321 - Specific treatment (see supplemental first aid instructions on this label)
- P330 - Rinse mouth
- 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: 2
NFPA Reactivity: 2
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.

General advice

Specific treatment (see supplemental first aid instructions on this label).

Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Rinse mouth

Storage

Store locked up

Disposal

Dispose of contents of container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms: 2-Propenamamide
Formula: C₃H₅NO
Molecular weight: 71.08

| Chemical Name | EC No. | CAS Number | Weight % | Classification (67/548) | Classification (Reg. 1272/2008) | REACH Registration Number |
|---------------|--------|------------|----------|-------------------------|---------------------------------|---------------------------|
|---------------|--------|------------|----------|-------------------------|---------------------------------|---------------------------|

| | | | | | | |
|------------|-------------------|---------|-----|---|---|-------------------|
| ACRYLAMIDE | EEC No. 201-173-7 | 79-06-1 | 100 | 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 |
|------------|-------------------|---------|-----|---|---|-------------------|

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 | Do not rub affected area. Rinse thoroughly with water as necessary Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. 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 in case of accidental inhalation of vapors or decomposition products. Move to fresh air in case of accidental inhalation of vapors. Immediate medical attention is not required |
| Rinse mouth | Call a POISON CENTER or doctor/physician if exposed or you feel unwell. If swallowed, get medical help or contact a Poison Control Center right away. Remove from source of exposure. If swallowed Remove from exposure, lie down. Do not let the person eat or drink in case of 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

Dry chemical, CO₂, water spray or alcohol-resistant foam. Halons

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

Pay attention to flashback. Ensure adequate ventilation.

See Section 12 for additional information.

6.2 Environmental precautions

Refer to protective measures listed in Sections 7 and 8.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material.

6.4 Reference to other sections

See Section 12 for additional information

7. HANDLING AND STORAGE

Storage

ROOM TEMPERATURE

DESICCATE

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 | | 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 | 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.

Other Protective Equipment Impervious clothing. Long sleeved clothing.
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 Solid.
Appearance and Odor: White; odorless.

Physical Property Data

pH Value No data available
Flash Point 138°C/280°F
Autoignition Temperature 424°C/795°F
Melting/Freezing Point 84°C/184°F
Boiling Point (°C) 125°C/257°F
Vapor Pressure No data available
Vapor Density No information available
Water Solubility soluble
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 1.127
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

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 |
|-----------------------|-------------------|--|-----------------|
| ACRYLAMIDE 79-06-1 | 124 mg/kg (Rat) | 400 mg/kg (Rat) 1680 µL/kg (Rabbit) | |

| | |
|-------------------------------|--|
| Mutagenic Effects | Contains no ingredient listed as a mutagen. |
| Carcinogenic Effects | Substances which cause concern for man owing to possible carcinogenic effects but for which the available information is not adequate for making a satisfactory assessment |
| Reproductive Toxicity | None known |
| Developmental Toxicity | None known. |
| Aspiration hazard | None known |

12. ECOLOGICAL INFORMATION

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12.1 Toxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

| 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 |
| Hazard Class | 6.1 |
| UN/ID No | UN2074 |
| Packing Group | III |

14. TRANSPORT INFORMATION

ICAO

Hazard class 6.1
UNID No. UN2074
Proper Shipping Name Acrylamide
Packing Group III

ICAO/IATA

Hazard Class 6.1
UN/ID No. UN2074
Proper Shipping Name Acrylamide
Packing Group III
EGR Code 153P

DOT

Proper shipping name Acrylamide
Hazard class 6.1
UN/ID No UN2074
Packing Group III

TDG

Proper Shipping Name Acrylamide
Hazard Class 6.1
UN/ID No UN2074
Packing Group III

MEX

Proper Shipping Name Acrylamide
Hazard Class 6.1
UN/ID No UN2074
Packaging Group III

15. REGULATORY INFORMATION

International Inventories

| Chemical Name | TSCA | EINECS / ELINCS | DSL / NDSL | PICCS | ENCS | IECSC | AICS | KECL |
|---------------|--------|-----------------|------------|--------|--------|--------|--------|--------|
| 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/