



# 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:** 814326

**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
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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
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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>	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
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.
<b>Inhalation</b>	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
<b>Rinse mouth</b>	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, CO<sub>2</sub>, 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**

<b>Chemical Name</b>	<b>European Union</b>	<b>The United Kingdom</b>	<b>France</b>	<b>Spain</b>	<b>Germany</b>
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*	

<b>Chemical Name</b>	<b>Italy</b>	<b>Portugal</b>	<b>The Netherlands</b>	<b>Finland</b>	<b>Denmark</b>
ACRYLAMIDE		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	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.

**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

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

<b>Mutagenic Effects</b>	Contains no ingredient listed as a mutagen.
<b>Carcinogenic Effects</b>	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
<b>Reproductive Toxicity</b>	None known
<b>Developmental Toxicity</b>	None known.
<b>Aspiration hazard</b>	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

<b>Proper Shipping Name</b>	Acrylamide
<b>Hazard Class</b>	6.1
<b>UN/ID No</b>	UN2074
<b>Packing Group</b>	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/](http://www.ChemADVISOR.com/)