

# SAFETY DATA SHEET

# spectrum®



Revision date 16-January-2020

Revision Number 1

## 1. Identification

### Product identifier

**Product Name** ACRYLAMIDE, ULTRAPURE, ELECTROPHORESIS GRADE

### Other means of identification

**Product Code(s)** A1029

**UN/ID no** UN2074

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended use** No information available

**Restrictions on use** No information available

### Details of the supplier of the safety data sheet

#### Supplier Address

Spectrum Chemical Mfg. Corp.  
14422 South San Pedro St.  
Gardena, CA 90248  
(310) 516-8000

### Emergency telephone number

**Emergency Telephone** Chemtrec 1-800-424-9300

## 2. Hazard(s) identification

### Classification

|  |             |
|--|-------------|
| Acute toxicity - Oral                              | Category 3  |
| Acute toxicity - Dermal                            | Category 4  |
| Acute toxicity - Inhalation (Gases)                | Category 4  |
| Acute toxicity - Inhalation (Vapors)               | Category 4  |
| Acute toxicity - Inhalation (Dusts/Mists)          | Category 4  |
| Skin corrosion/irritation                          | Category 2  |
| Serious eye damage/eye irritation                  | Category 2A |
| Skin sensitization                                 | Category 1  |
| Germ cell mutagenicity                             | Category 1B |
| Carcinogenicity                                    | Category 1B |
| Reproductive toxicity                              | Category 2  |
| Specific target organ toxicity (repeated exposure) | Category 1  |

### Hazards not otherwise classified (HNOC)

Not applicable

## Label elements

### **Danger**

### Hazard statements

Toxic if swallowed  
Harmful in contact with skin  
Harmful if inhaled  
Causes skin irritation  
Causes serious eye irritation  
May cause an allergic skin reaction  
May cause genetic defects  
May cause cancer  
Suspected of damaging fertility or the unborn child  
Causes damage to organs through prolonged or repeated exposure



**Appearance** No information available

**Physical state** No information available

**Odor** No information available

### **Precautionary Statements - Prevention**

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Wear protective gloves/protective clothing/eye protection/face protection  
Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Use only outdoors or in a well-ventilated area  
Contaminated work clothing must not be allowed out of the workplace  
Do not breathe dust/fume/gas/mist/vapors/spray

### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention  
Specific treatment (see .? on this label)  
Specific treatment (see .? on this label)  
IF IN EYES: Rinse 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  
IF ON SKIN: Wash with plenty of water and soap  
Call a POISON CENTER or doctor if you feel unwell  
Take off contaminated clothing and wash it before reuse  
If skin irritation or rash occurs: Get medical advice/attention  
IF INHALED: Remove person to fresh air and keep comfortable for breathing  
IF SWALLOWED: Immediately call a POISON CENTER or doctor  
Rinse mouth

### **Precautionary Statements - Storage**

Store locked up

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### **Unknown acute toxicity**

### Other information

Harmful to aquatic life with long lasting effects. Harmful to aquatic life.

## **3. Composition/information on ingredients**

## Substance

| Chemical name | CAS No  | Weight-% | Trade secret |
|---------------|---------|----------|--------------|
| Acrylamide    | 79-06-1 | 100      | *            |

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

## **4. First-aid measures**

### Description of first aid measures

|   |   |
|---|---|
| <b>General advice</b>                     | Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.   |
| <b>Inhalation</b>                         | Remove to fresh air. Get medical attention immediately if symptoms occur.   |
| <b>Eye contact</b>                        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. Do not rub affected area. |
| <b>Skin contact</b>                       | May cause an allergic skin reaction. Wash off immediately with soap and plenty of water for at least 15 minutes. If symptoms persist, call a physician.   |
| <b>Ingestion</b>                          | Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.  |
| <b>Self-protection of the first aider</b> | Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Wear personal protective clothing (see section 8). Avoid contact with skin, eyes or clothing.                                      |

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

**Symptoms** Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation.

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

**Note to physicians** May cause sensitization in susceptible persons. Treat symptomatically.

## **5. Fire-fighting measures**

|   |  |
|---|--|
| <b>Suitable Extinguishing Media</b>                   | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.                            |
| <b>Large Fire</b>                                     | CAUTION: Use of water spray when fighting fire may be inefficient.   |
| <b>Unsuitable extinguishing media</b>                 | Do not scatter spilled material with high pressure water streams.  |
| <b>Specific hazards arising from the chemical</b>     | Product is or contains a sensitizer. May cause sensitization by skin contact.  |
| <b>Explosion data</b>                                 |  |
| <b>Sensitivity to mechanical impact</b>               | none.  |
| <b>Sensitivity to static discharge</b>                | none.  |
| <b>Special protective equipment for fire-fighters</b> | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |

## **6. Accidental release measures**

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal

protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

**Other information** Refer to protective measures listed in Sections 7 and 8.

### **Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

## **7. Handling and storage**

### **Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Remove contaminated clothing and shoes.

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

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Store locked up.

## **8. Exposure controls/personal protection**

### **Control parameters**

#### **Exposure Limits**

| Chemical name         | ACGIH TLV         | OSHA PEL                  | NIOSH IDLH |
|-----------------------|-------------------|---------------------------|------------|
| Acrylamide<br>79-06-1 | No data available | 0.3 mg/m <sup>3</sup> TWA | -          |

### **Appropriate engineering controls**

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

### **Individual protection measures, such as personal protective equipment**

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Hand protection** Wear suitable gloves. Impervious gloves.

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

|                |                          |
|----------------|--------------------------|
| Physical state | No information available |
| Appearance     | No information available |
| Color          | No information available |
| Odor           | No information available |
| Odor threshold | No information available |

| <u>Property</u>                        | <u>Values</u>            | <u>Remarks • Method</u> |
|--|--------------------------|-------------------------|
| pH                                     | no data available        | None known              |
| Melting point / freezing point         | 84.5 °C / 184.1 °F       | None known              |
| Boiling point / boiling range          | 125 °C / 257 °F          |                         |
| Flash point                            | 138 °C / 280.4 °F        |                         |
| Evaporation rate                       | no data available        | None known              |
| Flammability (solid, gas)              | no data available        | None known              |
| Flammability Limit in Air              |                          | None known              |
| Upper flammability or explosive limits | No data available        |                         |
| Lower flammability or explosive limits | No data available        |                         |
| Vapor pressure                         | No data available        | None known              |
| Vapor density                          | no data available        | None known              |
| Relative density                       | no data available        | None known              |
| Water solubility                       | No data available        | None known              |
| Solubility(ies)                        | no data available        | None known              |
| Partition coefficient                  | No data available        | None known              |
| Autoignition temperature               | no data available        | None known              |
| Decomposition temperature              |                          | None known              |
| Kinematic viscosity                    | no data available        | None known              |
| Dynamic viscosity                      | No data available        | None known              |
| <u>Other information</u>               |                          |                         |
| Explosive properties                   | No information available |                         |
| Oxidizing properties                   | No information available |                         |
| Softening point                        | No information available |                         |
| Molecular weight                       | No information available |                         |
| VOC Content (%)                        | No information available |                         |
| Liquid Density                         | No information available |                         |
| Bulk density                           | No information available |                         |

## 10. Stability and reactivity

|                                    |  |
|------------------------------------|--|
| Reactivity                         | No information available.                            |
| Chemical stability                 | Stable under normal conditions.                      |
| Possibility of hazardous reactions | None under normal processing.                        |
| Conditions to avoid                | None known based on information supplied.            |
| Incompatible materials             | Strong acids. Strong bases. Strong oxidizing agents. |
| Hazardous decomposition products   | Spontaneous polymerisation.                          |

## 11. Toxicological information

### Information on likely routes of exposure

#### Product Information

##### Inhalation

Specific test data for the substance or mixture is not available. May cause irritation of

respiratory tract.

- Eye contact** Specific test data for the substance or mixture is not available. Irritating to eyes. (based on components). Causes serious eye irritation.
- Skin contact** May cause sensitization by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). Causes skin irritation.
- Ingestion** Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Toxic if swallowed. (based on components).

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes.

**Acute toxicity**

**Numerical measures of toxicity**

**Unknown acute toxicity**

**Component Information**

| Chemical name         | Oral LD50           | Dermal LD50  | Inhalation LC50 |
|-----------------------|---------------------|--|-----------------|
| Acrylamide<br>79-06-1 | = 124 mg/kg ( Rat ) | = 1148 mg/kg ( Rabbit ) = 1680<br>µL/kg ( Rabbit ) = 400 mg/kg ( Rat ) | -               |

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

- Skin corrosion/irritation** Classification based on data available for ingredients. Irritating to skin.
- Serious eye damage/eye irritation** Classification based on data available for ingredients. Causes serious eye irritation.
- Respiratory or skin sensitization** May cause sensitization by skin contact.
- Germ cell mutagenicity** Contains a known or suspected mutagen. Classification based on data available for ingredients. May cause genetic defects.
- Carcinogenicity** Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical name         | ACGIH | IARC   | NTP | OSHA |
|-----------------------|-------|--|-----|------|
| Acrylamide<br>79-06-1 | -     | Monograph 60 [1994]<br>overall evaluation<br>upgraded from 2B to 2A<br>with supporting evidence<br>from other relevant data<br>Supplement 7 [1987] | -   | -    |

**Legend**

- Reproductive toxicity** Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. Suspected of damaging fertility or the unborn child.
- STOT - single exposure** No information available.
- STOT - repeated exposure** Causes damage to organs through prolonged or repeated exposure.
- Target organ effects** Eyes, Skin, central nervous system, Peripheral Nervous System (PNS), Reproductive System, Thyroid, lungs.
- Aspiration hazard** No information available.
- Other adverse effects** No information available.
- Interactive effects** No information available.

## 12. Ecological information

### Ecotoxicity

Harmful to aquatic life with long lasting effects.

| Chemical name         | Algae/aquatic plants | Fish  | Toxicity to microorganisms | Crustacea                          |
|-----------------------|----------------------|---|----------------------------|------------------------------------|
| Acrylamide<br>79-06-1 | -                    | LC50: 103 - 115mg/L (96h, Pimephales promelas) LC50: 137 - 191mg/L (96h, Oncorhynchus mykiss) LC50: 74 - 150mg/L (96h, Oncorhynchus mykiss) LC50: 81 - 150mg/L (96h, Lepomis macrochirus) LC50: =124mg/L (96h, Pimephales promelas) | -                          | EC50: =98mg/L (48h, Daphnia magna) |

### Persistence and degradability

No information available.

### Bioaccumulation

Inherently biodegradable.

### Component Information

| Chemical name         | Partition coefficient |
|-----------------------|-----------------------|
| Acrylamide<br>79-06-1 | -1.24                 |

### Other adverse effects

No information available.

## 13. Disposal considerations

### Waste treatment methods

#### Waste from residues/unused products

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

#### Contaminated packaging

Do not reuse empty containers.

## 14. Transport information

### DOT

UN/ID no UN2074  
Proper Shipping Name: Acrylamide, solid  
Hazard class 6.1  
Packing group: III  
Special Provisions IB8, IP3, T1, TP33  
Marine Pollutant Severe Marine Pollutant  
Description: UN2074, Acrylamide, solid, 6.1, III  
Emergency Response Guide Number 153P

### TDG

UN-No: UN2074  
Proper Shipping Name: Acrylamide, solid  
Hazard class 6.1  
Packing Group: III  
Description: UN2074, Acrylamide, solid, 6.1, III

### MEX

UN-No UN2074  
Proper Shipping Name Acrylamide, solid  
Hazard class 6.1

**Packing Group** III  
**Description** UN2074, Acrylamide, solid, 6.1, III

**ICAO (air)**

**UN-No:** UN2074  
**Proper Shipping Name:** Acrylamide, solid  
**Hazard class** 6.1  
**Packing Group:** III  
**Description:** UN2074, Acrylamide, solid, 6.1, III

**IATA**

**UN number** UN2074  
**Proper Shipping Name:** Acrylamide, solid  
**Transport hazard class(es)** 6.1  
**Packing group** III  
**Description:** UN2074, Acrylamide, solid, 6.1, III

**IMDG**

**UN number** UN2074  
**Proper shipping name** Acrylamide, solid  
**Transport hazard class(es)** 6.1  
**Packing group** III  
**EmS-No** F-A, S-A  
**Marine pollutant** NP1  
**Description** UN2074, Acrylamide, solid, 6.1, III

**RID**

**UN number** UN2074  
**Proper Shipping Name:** Acrylamide, solid  
**Transport hazard class(es)** 6.1  
**Packing group** III  
**Classification code** T2  
**Description:** UN2074, Acrylamide, solid, 6.1, III  
**Labels** 6.1

**ADR**

**UN number** 2074  
**Proper Shipping Name:** Acrylamide, solid  
**Transport hazard class(es)** 6.1  
**Packing group** III  
**Classification code** T2  
**Tunnel restriction code** (E)  
**Description:** 2074, Acrylamide, solid, 6.1, III, (E)  
**Labels** 6.1

**ADN**

**UN/ID No** UN2074  
**Proper shipping name** Acrylamide, solid  
**Transport hazard class(es)** 6.1  
**Packing Group** III  
**Classification code** T2  
**Special Provisions** 802  
**Description** UN2074, Acrylamide, solid, 6.1, III  
**Hazard label(s)** 6.1  
**Limited quantity (LQ)** 5 kg  
**Equipment Requirements** PP, EP

**15. Regulatory information**

**International Inventories**

**TSCA** Complies

\*Contact supplier for details. One or more substances in this product are either not listed on the US TSCA inventory, listed on the confidential US TSCA inventory or are otherwise exempted from inventory listing requirements



**DSL/NDSL** Complies  
**EINECS/ELINCS** Complies  
**ENCS** This product complies with encls:  
**IECSC** This product complies with china:  
**KECL** Complies  
**PICCS** Complies  
**AICS** All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

**Legend:**

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

**US Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

| Chemical name         | Hazardous Substances RQs             | Extremely Hazardous Substances RQs |
|-----------------------|--------------------------------------|------------------------------------|
| Acrylamide<br>79-06-1 | 5000 lb final RQ<br>2270 kg final RQ | -                                  |

**US State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

This product does not contain any substances regulated under applicable state right-to-know regulations

**U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not applicable

**16. Other information**

**NFPA**

**Health hazards** 3

Flammability 1  
Instability 0  
Physical and chemical properties -

**HMIS**

Health hazards 2 \*

Flammability 1

Physical hazards 0

Personal protection X

*Chronic Hazard Star Legend*

\* = Chronic Health Hazard

**Key or legend to abbreviations and acronyms used in the safety data sheet**

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

|         |                             |      |                                  |
|---------|-----------------------------|------|----------------------------------|
| TWA     | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value         | *    | Skin designation                 |

**Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
U.S. Environmental Protection Agency ChemView Database  
European Food Safety Authority (EFSA)  
EPA (Environmental Protection Agency)  
Acute Exposure Guideline Level(s) (AEGl(s))  
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
U.S. Environmental Protection Agency High Production Volume Chemicals  
Food Research Journal  
Hazardous Substance Database  
International Uniform Chemical Information Database (IUCLID)  
Japan GHS Classification  
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)  
National Library of Medicine's PubMed database (NLM PUBMED)  
National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
Organization for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

**Revision date** 16-January-2020

**Revision Note** No information available.

**Disclaimer**

**The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.**

**End of Safety Data Sheet**