

09/19/2022

**Kit Components**

Product code	Description
<b>V3115</b>	<b>Acrylamide Molecular Grade</b>
Components:	
V311	Acrylamide



**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 09/19/2022

Reviewed on 09/02/2022

**1 Identification**

**Product identifier**

**Trade name:** Acrylamide

**Article number:** V311

**CAS Number:**

79-06-1

**EC number:**

201-173-7

**Index number:**

616-003-00-0

**Application of the substance / the mixture** For Laboratory Use

**Details of the supplier of the safety data sheet**

**Manufacturer/Supplier:**

Promega Corporation

2800 Woods Hollow Road

Madison, WI 53711

U.S.A.

1-800-356-9526 or (608)-274-4330

**Information department:** SDS author: [chemicalregulatory@promega.com](mailto:chemicalregulatory@promega.com)

**Emergency telephone number:**

For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300

Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

**2 Hazard(s) identification**

**Classification of the substance or mixture**



GHS06 Skull and crossbones

Acute Toxicity - Oral 3

H301 Toxic if swallowed.



GHS08 Health hazard

Germ Cell Mutagenicity 1B

H340 May cause genetic defects.

Carcinogenicity 1B

H350 May cause cancer.

Toxic to Reproduction 2

H361 Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity - Repeated Exposure 1 H372 Causes damage to organs through prolonged or repeated exposure.



GHS07

(Contd. on page 2)

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 09/19/2022

Reviewed on 09/02/2022

**Trade name:** Acrylamide

(Contd. of page 1)

*Acute Toxicity - Dermal 4**H312 Harmful in contact with skin.**Acute Toxicity - Inhalation 4**H332 Harmful if inhaled.**Skin Irritation 2**H315 Causes skin irritation.**Eye Irritation 2A**H319 Causes serious eye irritation.**Sensitization - Skin 1**H317 May cause an allergic skin reaction.***Label elements****GHS label elements***The substance is classified and labeled according to the Globally Harmonized System (GHS).***Hazard pictograms**

GHS06

GHS07

GHS08

**Signal word** *Danger***Hazard-determining components of labeling:***acrylamide***Hazard statements***Toxic if swallowed.**Harmful in contact with skin or 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.***Precautionary statements***Obtain special instructions before use.**Do not handle until all safety precautions have been read and understood.**Do not breathe dust/fume/gas/mist/vapors/spray.**Wash 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.**Wear protective gloves/protective clothing/eye protection/face protection.**If swallowed: Immediately call a poison center/doctor.**Rinse mouth.**If on skin: Wash with plenty of water.**IF INHALED: Remove person to fresh air and keep comfortable for breathing.**If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.**Continue rinsing.**IF exposed or concerned: Get medical advice/attention.**Call a poison center/doctor if you feel unwell.**Get medical advice/attention if you feel unwell.**Take off contaminated clothing and wash it before reuse.**If skin irritation or rash occurs: Get medical advice/attention.**If eye irritation persists: Get medical advice/attention.**Wash contaminated clothing before reuse.**Store locked up.**Dispose of contents/container in accordance with local/regional/national/international regulations.*

(Contd. on page 3)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 09/19/2022

Reviewed on 09/02/2022

**Trade name:** Acrylamide

(Contd. of page 2)

**Classification system:****NFPA ratings (scale 0 - 4)**

Health = 2

Fire = 2

Reactivity = 2

**HMIS-ratings (scale 0 - 4)**

Health = 2

Fire = 2

Reactivity = 2

**OSHA Hazard Overview (Criteria according to 29CFR1910.1200):**

Irritant

Sensitizer

Reproductive Hazard

Suspected Carcinogen

**Primary route(s) of entry:**

Dermal

Inhalation

Oral

**Target Organ(s):** May affect Nervous system (Neurotoxin)**Other hazards****Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.

\*

**3 Composition/information on ingredients****Chemical characterization: Substances****CAS No. Description**

79-06-1 acrylamide

**EC number:** 201-173-7**Index number:** 616-003-00-0

\*

**4 First-aid measures****Description of first aid measures****General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

In case of irregular breathing or respiratory arrest provide artificial respiration.

Do not leave affected persons unattended.

Seek medical treatment.

Provide oxygen treatment if affected person has difficulty breathing.

Medical supervision for at least 48 hours.

**After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

Seek medical treatment in case of complaints.

**After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

(Contd. on page 4)

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 09/19/2022

Reviewed on 09/02/2022

**Trade name: Acrylamide**

(Contd. of page 3)

**After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**After swallowing:** Do not induce vomiting; immediately call for medical help.**Information for doctor:****Most important symptoms and effects, both acute and delayed** Allergic reactions**Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### 5 Fire-fighting measures

**Extinguishing media****Suitable extinguishing agents:**CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.**Special hazards arising from the substance or mixture**

None known

No further relevant information available.

**Advice for firefighters** In the case of fire, wear respiratory protective equipment and chemical protective suit.**Protective equipment:** Mouth respiratory protective device.

### 6 Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

Remove persons from danger area.

Avoid formation of dust.

Wear protective clothing.

**Environmental precautions:** Do not allow to enter sewers/ surface or ground water.**Methods and material for containment and cleaning up:**

Dispose contaminated material as waste according to Section 13.

Pick up mechanically.

Ensure adequate ventilation.

**Reference to other sections**

See Section 7 for information on safe handling.

See Section 13 for disposal information.

### 7 Handling and storage

**Handling:****Precautions for safe handling**

Thorough dedusting.

Keep receptacles tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

**Information about protection against explosions and fires:** Keep respiratory protective device available.**Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:** Do not store below -20°C. Protected from light.**Information about storage in one common storage facility:** Not required.**Further information about storage conditions:** Keep receptacle tightly sealed.

(Contd. on page 5)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 09/19/2022

Reviewed on 09/02/2022

Trade name: Acrylamide

Specific end use(s) No further relevant information available.

(Contd. of page 4)

## 8 Exposure controls/personal protection

### Control parameters

#### Components with limit values that require monitoring at the workplace:

#### 79-06-1 acrylamide

PEL	Long-term value: 0.3 mg/m <sup>3</sup> Skin
REL	Long-term value: 0.03 mg/m <sup>3</sup> Skin; See Pocket Guide App. A
TLV	Long-term value: 0.03* mg/m <sup>3</sup> DSEN, Skin; *inhalable fraction and vapor, A2

**Additional information:** The lists that were valid during the creation were used as basis.

### Exposure controls

#### Personal protective equipment:

#### General protective and hygienic measures:

Ensure that washing facilities are available at the work place.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

Pregnant women should strictly avoid inhalation or skin contact.

Do not eat or drink while working.

Clean skin thoroughly immediately after handling the product.

#### Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

#### Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

#### Material of gloves

Please observe the instructions regarding permeability and breakthrough time which are provided by the manufacturer/supplier of the gloves. Ensure gloves are suitable for the task which includes, but is not limited to, chemical compatibility, dexterity, operational conditions, user susceptibility, e.g., sensitization effects. Consider specific local conditions under which the product is used such as the danger of cuts and abrasion. Remove gloves with care to avoid skin contamination.

#### Eye protection:

Safety glasses

Use equipment for eye protection tested and approved under government NIOSH standards.

## 9 Physical and chemical properties

### Information on basic physical and chemical properties

#### General Information

#### Appearance:

Form:	Crystalline
Color:	Colorless
Odor:	Odorless

(Contd. on page 6)

US

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 09/19/2022

Reviewed on 09/02/2022

Trade name: Acrylamide

(Contd. of page 5)

<b>Odor threshold:</b>	Not determined.
<b>pH-value:</b>	5.2-6
<b>Change in condition</b>	
<b>Melting point/Melting range:</b>	84-85 °C (183.2-185 °F)
<b>Boiling point/Boiling range:</b>	125 °C (257 °F)
<b>Flash point:</b>	138 °C (280.4 °F)
<b>Flammability (solid, gaseous):</b>	Product is not flammable.
<b>Decomposition temperature:</b>	Not determined.
<b>Auto igniting:</b>	Not determined.
<b>Danger of explosion:</b>	Product does not present an explosion hazard.
<b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>Vapor pressure at 20 °C (68 °F):</b>	0.009 hPa (0 mm Hg)
<b>Density at 20 °C (68 °F):</b>	1.03 g/cm <sup>3</sup> (8.59535 lbs/gal)
<b>Relative density</b>	Not determined.
<b>Vapor density</b>	Not applicable.
<b>Evaporation rate</b>	Not applicable.
<b>Solubility in / Miscibility with</b>	
<b>Water:</b>	Soluble.
<b>Partition coefficient (n-octanol/water):</b>	Not determined.
<b>Viscosity:</b>	
<b>Dynamic:</b>	Not applicable.
<b>Kinematic:</b>	Not applicable.
<b>VOC content:</b>	0.00 %
<b>Solids content:</b>	100.0 %
<b>Other information</b>	No further relevant information available.

\*

### 10 Stability and reactivity

**Reactivity** No further relevant information available.

**Chemical stability**

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**Possibility of hazardous reactions** No dangerous reactions known.

**Conditions to avoid** No further relevant information available.

**Incompatible materials:**

Oxidizing agents

Strong acids

**Hazardous decomposition products:** No dangerous decomposition products known.

US

(Contd. on page 7)



# Safety Data Sheet

acc. to OSHA HCS

Printing date 09/19/2022

Reviewed on 09/02/2022

Trade name: Acrylamide

(Contd. of page 6)

## 11 Toxicological information

### Information on toxicological effects

#### Acute toxicity:

#### LD/LC50 values that are relevant for classification:

#### 79-06-1 acrylamide

Oral	LD50	124 mg/kg (Rat)
Dermal	LD50	400 mg/kg (Rat) 252 mg/kg (Rabbit)
Irritation of skin	acute	500 mg/ 24H (Rabbit) mild irritation

#### Primary irritant effect:

**on the skin:** Irritant to skin and mucous membranes.

**on the eye:** Irritating effect.

#### Sensitization:

In case of skin contact: not sensitising

In case of inhalation: not sensitising

**Additional toxicological information:** The substance is not subject to classification.

#### Carcinogenic categories

#### IARC (International Agency for Research on Cancer)

2A

#### NTP (National Toxicology Program)

R

#### OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

## 12 Ecological information

### Toxicity

**Aquatic toxicity:** Not harmful to the aquatic environment

### Persistence and degradability

Not available

No further relevant information available.

### Bioaccumulative potential

Not known

No further relevant information available.

**Mobility in soil** No further relevant information available.

### Ecotoxicological effects:

**Remark:** Not available

### Additional ecological information:

#### General notes:

Water hazard class 3 (Assessment by list): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

### Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable.

(Contd. on page 8)

US

# Safety Data Sheet

acc. to OSHA HCS

Printing date 09/19/2022

Reviewed on 09/02/2022

Trade name: Acrylamide

Other adverse effects No further relevant information available.

(Contd. of page 7)

## 13 Disposal considerations

### Waste treatment methods

#### Recommendation:

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

### Uncleaned packagings:

**Recommendation:** Disposal must be made according to official regulations.

**Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14 Transport information

### UN-Number

DOT, ADR, IMDG, IATA

UN2074

### UN proper shipping name

DOT

Acrylamide, solid

ADR

2074 ACRYLAMIDE, SOLID

IMDG, IATA

ACRYLAMIDE, SOLID

### Transport hazard class(es)

DOT



Class

6.1 Toxic substances

Label

6.1

ADR



Class

6.1 (T2) Toxic substances

Label

6.1

IMDG, IATA



Class

6.1 Toxic substances

Label

6.1

### Packing group

DOT, ADR, IMDG, IATA

III

(Contd. on page 9)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 09/19/2022

Reviewed on 09/02/2022

Trade name: Acrylamide

(Contd. of page 8)

**Environmental hazards:****Marine pollutant:** No**Special precautions for user**

Warning: Toxic substances

**Hazard identification number (Kemler code):** 60**EMS Number:** F-A,S-A**Stowage Category** A**Stowage Code** SW1 Protected from sources of heat.**Handling Code** H2 Keep as cool as reasonably practicable**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable.

**Transport/Additional information:****DOT****Hazardous substance:** 5000 lbs, 2270 kg**ADR****Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 1000 g

**IMDG****Limited quantities (LQ)**

5 kg

**Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 1000 g

**UN "Model Regulation":**

UN 2074 ACRYLAMIDE, SOLID, 6.1, III

\*

**15 Regulatory information****Safety, health and environmental regulations/legislation specific for the substance or mixture**

Sara

**Section 355 (extremely hazardous substances):**

Substance is listed.

**Section 313 (Specific toxic chemical listings):**

Substance is listed.

**TSCA (Toxic Substances Control Act) Inventory:**

Substance is listed.

**Hazardous Air Pollutants**

Substance is listed.

**Proposition 65****Chemicals known to cause cancer:**

Substance is listed.

**Chemicals known to cause reproductive toxicity for females:**

Substance is not listed.

**Chemicals known to cause reproductive toxicity for males:**

Substance is listed.

(Contd. on page 10)

US

# Safety Data Sheet

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Reviewed on 09/02/2022

Trade name: Acrylamide

(Contd. of page 9)

**Chemicals known to cause developmental toxicity:**

Substance is listed.

**New Jersey Right-to-Know List:**

Substance is listed.

**Pennsylvania Right-to-Know List:**

Substance is listed.

**Carcinogenicity categories****EPA (Environmental Protection Agency)**

L

**TLV (Threshold Limit Value)**

A3

**NIOSH-Ca (National Institute for Occupational Safety and Health)**

Substance is listed.

**GHS label elements**

The substance is classified and labeled according to the Globally Harmonized System (GHS).

**Signal word** Danger**Hazard-determining components of labeling:**

acrylamide

**Hazard statements**

Toxic if swallowed.

Harmful in contact with skin or 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.

**Precautionary statements**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash 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.

Wear protective gloves/protective clothing/eye protection/face protection.

If swallowed: Immediately call a poison center/doctor.

Rinse mouth.

If on skin: Wash with plenty of water.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

IF exposed or concerned: Get medical advice/attention.

Call a poison center/doctor if you feel unwell.

Get medical advice/attention if you feel unwell.

Take off contaminated clothing and wash it before reuse.

If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Wash contaminated clothing before reuse.

(Contd. on page 11)

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 09/19/2022

Reviewed on 09/02/2022

**Trade name:** Acrylamide

(Contd. of page 10)

*Store locked up.**Dispose of contents/container in accordance with local/regional/national/international regulations.***National regulations:** No information available**Information about limitation of use:***Workers are not allowed to be exposed to this hazardous material. Exceptions can be made by the authorities in certain cases.***Water hazard class:** Water hazard class 3 (Assessment by list): extremely hazardous for water.**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

\*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Department issuing SDS:**

Promega Corporation

Chemical Regulatory Department

2800 Woods Hollow Road

Madison, WI

Ph: (608) 274-4330

chemicalregulatory@promega.com

**Contact:****Date of preparation / last revision** 09/19/2022**Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organization

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety &amp; Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute Toxicity - Oral 3: Acute toxicity – Category 3

Acute Toxicity - Dermal 4: Acute toxicity – Category 4

Skin Irritation 2: Skin corrosion/irritation – Category 2

Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A

Sensitization - Skin 1: Skin sensitisation – Category 1

Germ Cell Mutagenicity 1B: Germ cell mutagenicity – Category 1B

Carcinogenicity 1B: Carcinogenicity – Category 1B

Toxic to Reproduction 2: Reproductive toxicity – Category 2

Specific Target Organ Toxicity - Repeated Exposure 1: Specific target organ toxicity (repeated exposure) – Category 1