

# SAFETY DATA SHEET

## Acrylamide/Bis-acrylamide 37.5:1 Solution

### SECTION 1: CHEMICAL AND COMPANY IDENTIFICATION

**BioShop Canada Inc.**  
**5480 Mainway**  
**Burlington, Ontario L7L 6A4**  
**1-800-234-1179**  
**Emergency Telephone No.: 905-466-3832**  
**Chemical Name:** Acrylamide/Bis-acrylamide 37.5:1  
**Synonym:** not applicable  
**Catalog Number:** ACR005  
**Recommended Use:** For research use

### SECTION 2 HAZARDS IDENTIFICATION

#### GHS Classification

#### CLASSIFICATION:

Carcinogen, 1B  
Germ cell mutagenicity, 1B  
Reproductive toxicity, 2  
Acute toxicity Oral, 3  
Acute toxicity Inhalation, 4  
Acute toxicity Dermal, 3  
Skin irritant 2  
Eye irritant 2  
Specific target organ toxicity-repeated, 1  
Acute Aquatic toxicity, 2

#### PICTOGRAM:



**SIGNAL WORD:** Danger

#### HAZARD STATEMENTS:

H301-Toxic if swallowed  
H312-Harmful in contact with skin  
H315- Causes skin irritation  
H317- May cause an allergic skin reaction  
H319- Causes serious eye irritation  
H332-Harmful if inhaled  
H340- May cause genetic defects  
H350- May cause cancer  
H361-Suspected of damaging fertility of the unborn  
H402- Toxic to aquatic life

#### PRECAUTIONARY STATEMENTS:

P201- Obtain special instructions before use..  
P261- Avoid breathing dust/fume/gas/mist/vapors/spray  
P280-wear protective gloves/protective clothing/eye protection/face protection.  
P301+P310- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P304-P340- IF INHALED remove to fresh air and keep at rest in a position comfortable for breathing.

P302+P352- IF ON SKIN: wash with plenty of soap and water.  
P305+P351+P338- IF IN EYES: rinse cautiously with water for several minutes. remove contact lenses if present and easy to do. Continue rinsing.

#### WHMIS:

D1B, Toxic Material causing Immediate and Serious Toxic Effects.  
D2A, Very Toxic material Causing Other Toxic Effects.  
D2B, Toxic Material Causing Other Toxic Effects

#### Potential Health Effects

**Routes of entry:** Eyes, skin, inhalation, ingestion.

**Target Organs:** Eyes, CNS, kidneys, reproductive system

**Eyes:** Toxic when in contact with eyes. Harmful. Causes irritation.

**Skin:** Toxic when in contact with skin. Readily absorbed through skin. harmful. Can cause dermatitis..

**Ingestion:** Toxic if ingested. Initial symptoms, numbness, tingling and touch tenderness. Prolonged exposure leading to coldness of extremities, excessive sweating, bluish-red and peeling of palms, marked fatigue and limb weakness.  
**Inhalation:** Toxic if inhaled. Can be absorbed through the lungs to produce the signs and symptoms of neurotoxicity.

**CHRONIC HEALTH HAZARDS;** repeated exposure may cause dermatitis. May cause cancer. May cause CNS disturbances.

### SECTION 3 COMPOSITION/ INGREDIENTS

	CAS #	EC-No.	%
Acrylamide	79-06-1	201-173-7	38-39
Bis-acrylamide	110-26-9	231-791-2	1-2
Water	7732-18-5	231-791-2	60

### SECTION 4 FIRST AID MEASURES

**Eyes:** Flush eyes with plenty of water . Consult a physician.

**Skin:** In case of contact, flush area immediately with water. Get medical aid if irritation persists.

**Inhalation:** Remove victim to fresh air. If breathing becomes difficult, give oxygen. Consult a physician..

**Ingestion:** Wash mouth with water. Do NOT induce vomiting. Consult a physician.

### SECTION 5 FIRE FIGHTING MEASURES

**Flammability:** not flammable

**Flash Point:** not determined

**Autoignition Temperature:** not determined

**Extinguishing Media:** Use water spray, foam, dry chemical or carbon dioxide.

**Explosion Data:** Not available

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### SECTION 6 ACCIDENTAL RELEASE MEASURES

**Personal precautions:**

Ventilate the area. Wear appropriate protective equipment. Avoid contact with skin, eyes and clothing.

**Methods for containment and clean up:**

If safe to do so, contain further leakage. Use absorbent for clean up. Sweep and place in a closed container. Dispose according to local regulations.

### SECTION 7 HANDLING AND STORAGE

**Handling:** Do not get in eyes, on skin, or clothing. Wash thoroughly after handling.

**Storage Conditions:** 4C..

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure limits:**

ACRYLAMIDE:

ACGIH: 0.03 mg/m3 TWA

NIOSH: 0.03mg/m3 TWA 60 mg/m3 IDLH

OSHA: 0.3 mg/m3 TWA

BIS\_ACRYLAMIDE:

Not listed.

**Personal protective Equipment:** Wear appropriate safety glasses and protective gloves/clothing. Use approved NIOSH respirator.

**Engineering Measures:** eye wash stations, ventilation systems, showers

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety practice. wash hands before and after handling product.

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Liquid

**Odor:** no information found

**Odor Threshold:** : no information found

**Melting Point:** no information found

**Boiling Point:** no information found

**Specific Gravity:** no information found

**Vapor Density:** no information found

**Vapor pressure:** no information found

**Water Solubility:** soluble

**pH:** no information found

**Flammability:** no information found

**Flash point:** no information found

**Ignition temperature:** no information found

**Autoignition temperature:** no information found

**Lower explosion limit:** no information found

**Upper explosion limit:** no information found

### SECTION 10 STABILITY AND REACTIVITY:

**Stability:** Stable at normal room temperature and pressure

**Conditions to avoid:** no data available

**Incompatibility** strong oxidizing agents, acids, bases , iron and iron salts

**Hazardous Decomposition Products:** carbon oxides and nitrogen oxides.

**Hazardous Polymerization:** Has not been reported

### SECTION 11 TOXICOLOGICAL PROPERTIES

**Exposure Limits:**

ACRYLAMIDE:

Oral, LD50, rat=124mg/kg

Dermal LD50, rat= 400mg/kg

Inhalation LD50, rat=>1500mg/kg

BIS-ACRYLAMIDE:

Oral, LD50, rat= 390mg/kg

**ACRYLAMIDE:**

**Teratogenicity:** see entry for RTECS

**Epidemiology:** confirmed carcinogen in animals

**Reproductive Effects:** have occurred in experimental animals

**Neurotoxicity:** have occurred in humans

**Mutagenicity:** see RTECS

**Carcinogenicity:** Confirmed animal carcinogen ACGIH

**NTP:** suspected carcinogen

**IARC:** Group 2A carcinogen

### SECTION 12 ECOLOGICAL INFORMATION

Harmful to aquatic organisms..

### SECTION 13 DISPOSAL CONSIDERATION

**Waste Disposal:** dispose of material and packaging according to all Federal, State, Provincial and local regulations.

### SECTION 14 TRANSPORT INFORMATION

**Shipping Information:**

**DOT (US):**

UN number: 3426

Class: 6.1

Packing Group: III

Shipping name: ACRYLAMIDE SOLUTION

**IMDG:**

UN number: 3426

Class: 6.1

Packing Group: III

Shipping name: ACRYLAMIDE SOLUTION

**IATA:**

UN number: 3426

Class: 6.1

Packing Group: III

Shipping name: ACRYLAMIDE SOLUTION

### SECTION 15 REGULATORY INFORMATION

**REACH Tile VII Restrictions:** no information found

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### US Federal Regulations:

#### SARA 313

Section 313 of title III of the Superfund Amendments and reauthorizations Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, part 372  
Acrylamide:

**CLEAN AIR ACT:** Listed

**California Proposition 65:** Listed. Carcinogen

<b>SECTION 16</b>	<b>ADDITIONAL INFORMATION</b>
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The information provided on this Material Safety Data Sheet is furnished in good faith and without warranty of any kind. The above information is believed to be correct and should be used only as a guide. BioShop Canada Inc. shall not be held liable for any damage resulting from the handling or from the contact with the above product.

Observe all federal, provincial and state laws concerning health, safety and pollution.