

SAFETY DATA SHEET

Acrylamide/Bis-acrylamide 29:1 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 29:1
Synonym: not applicable
Catalog Number: ACR004
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

SECTION 16	ADDITIONAL INFORMATION
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Date Prepared: Jan 1/2025

Phone: (800) 234-1179

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.