

SAFETY DATA SHEET

ACRYLAMIDE

SECTION 1: CHEMICAL AND COMPANY IDENTIFICATION

BioShop Canada Inc.
5480 Mainway
Burlington, Ontario L7L 6A4
1-800-234-1179
Emergency Telephone No.: CANUTEC 1-613-996-6666
Chemical Name: Acrylamide
Catalog Number: ACR001/ACR002

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.

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. Effects can result from single exposure, or with repeated contact. Peeling and redness may occur at exposure sites.

Ingestion: Harmful 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: Can be absorbed through the lungs to produce the signs and symptoms of neurotoxicity as described above.

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

SECTION 3 COMPOSITION/ INGREDIENTS

	CAS #	RTECS	%
Acrylamide	79-06-1	AS3325000	>99%

Molecular Formula: C₃H₅NO

Molecular Weight: 71.08

SECTION 4 FIRST AID MEASURES

Eyes: Flush eyes with water , GET MEDICAL ATTENTION

Skin: In case of contact, flush area immediately with water. Remove clothing. GET MEDICAL ATTENTION.

Inhalation: Remove victim to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen and GET MEDICAL ATTENTION.

Ingestion: wash mouth with water. Do not induce vomiting. GET MEDICAL ATTENTION IMMEDIATELY.

SECTION 5 FIRE FIGHTING MEASURES

Combustible solid. When dealing with fire wear self-contained breathing apparatus. Avoid hazardous vapors and dust.

Flammable: No

Flash Point: N/A

Autoignition Temperature: 464C

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

Explosion Data: Not available

SECTION 6 ACCIDENTAL RELEASE MEASURES

Ventilate the area. Wear appropriate protective equipment. Sweep and place in a closed container. In the event of a fire always wear self-contained breathing apparatus, NIOSH/MSHA approved or equivalent.

Leak and Spill Procedures: Ventilate the area. Wear appropriate protective equipment. Cover with dry lime or soda. Sweep and place in a closed container

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SECTION 7 HANDLING AND STORAGE

Handling: Avoid contact. Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Minimize dust generation. Use in fume hood.
Storage Conditions: Room temperature. Keep away from heat (above 50C) and ignition source.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits:
ACGIH: 0.03 mg/m3 TWA
NIOSH: 0.03mg/m3 TWA 60 mg/m3 IDLH
OSHA: 0.3 mg/m3 TWA
Use adequate ventilation. AVOID DUST GENERATION.
Wear appropriate protective equipment to prevent eye and skin exposure.
Wear appropriate respirator to prevent lung irritation.
Personal Protection: Lab coat, safety goggles, rubber gloves.
Ventilation: Local exhaust systems. Use fume hood
Respiratory protection: use NIOSH/MSHA approved respirator.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State: solid
Appearance and Odor: white crystalline, odorless
Melting Point: 85C
Boiling Point: 125C
Specific Gravity: 1.122
Vapor Density: 2.45
Water Solubility: Soluble
pH: N/A
Decomposition Temp.: 84C

SECTION 10 STABILITY AND REACTIVITY:

Conditions to avoid: dust generation
Stability: Stable at normal room temperature and pressure. May polymerize if heated to the melting point. May polymerize on exposure to light. May form explosive dust –air mixtures.
Incompatibility: Metals, oxidizing agents, reducing agents, bases, and acids
Hazardous Decomposition Products: Thermal decomposition may produce toxic fumes of carbon monoxide and carbon dioxide.
Hazardous Polymerization: may occur see above.

SECTION 11 TOXICOLOGICAL PROPERTIES

Exposure Limits:
LD50 / LC50:
SKN-RBT: 50 MG/3D MLD
SKN-RBT 500 MG /24HR MLD
EYE-RBT 10MG /30S RINSE MLD
EYE-RBT 100MG/24HR MOD

ORL-RAT LD50:124 MG/KG
IPR-RAT LD50:90 MG/KG

UNR-RAT LD50:208 MG/KG
ORL MUS LD50:107MG/KG

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

No information found.

SECTION 13 DISPOSAL CONSIDERATION

Waste Disposal: Burn in chemical incinerator. Observe all Federal, provincial and local regulations.

SECTION 14 TRANSPORT INFORMATION

Shipping Information:
US DOT
Acrylamide, Hazard class, 6.1. UN number: UN 2074. Packing group: III
IATA:
Acrylamide, Hazard class, 6.1. UN number: UN 2074. Packing group: III
Canada TDG:
Acrylamide Hazard Class: 6.1,Packing Group: III ,UN Number UN 2074

SECTION 15 REGULATORY INFORMATION

US: TSCA: listed
European/International:
Canada: WHMIS: D1B, D2A
Listed on DSI list.Controlled product.
Listed on the Canadian Ingredient Disclosure list.

SECTION 16 ADDITIONAL INFORMATION

Hazard Rating System			
NFPA	Health	Fire	Reactivity
	2	2	2

Prepared By: M.Kierdelewicz (President)
Date Prepared: Jan 1/2025
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Observe all federal, provincial and state laws concerning health, safety and pollution.