



Boston BioProducts, Inc

425 Fortune Blvd.

Milford, MA 01757

SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

- 1.1** PRODUCT NAME: Acrylamide (40%)
CATALOG #: AC-40
- 1.2** RECOMMENDED USE: Research use or further manufacturing
- 1.3** COMPANY IDENTIFICATION: Boston BioProducts, Inc.
425 Fortune Blvd. Milford, MA 01757
- 1.4** EMERGENCY CONTACT: 1-800-535-5053
TOLL FREE NUMBER: 1-888-881-8691

SECTION 2 – HAZARD(S) IDENTIFICATION

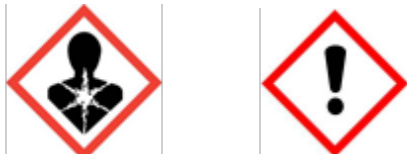
2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, oral	Category 3
Acute toxicity, dermal	Category 4
Skin corrosion/irritation	Category 2
Skin Sensitisation	Category 1
Serious eye damage/eye irritation	Category 2
Acute toxicity, inhalation	Category 4
Germ cell mutagenicity	Category 1
Carcinogenicity	Category 1
Reproductive toxicity	Category 2
Specific target organ toxicity, repeated exposure	Category 1
Acute aquatic toxicity	Category 3

2.2 GHS Label elements, including Hazard and Precautionary Statement(s)

Pictogram



Signal word: Danger

Hazard statement(s):

H301	Toxic if swallowed
H312	Harmful in contact with skin



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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 or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure
H402	Harmful to aquatic life

Precautionary Statements:

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash skin thoroughly after handling
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310	IF SWALLOWED: Call a POISON CENTER or doctor/physician .
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P314	Get medical advice/attention if you feel unwell.
P321	Specific treatment (see. on this label).
P330	Rinse mouth.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash before reuse.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

Section 3- COMPOSITION / INFORMATION ON INGREDIENTS



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Composition: 40 % Acrylamide

Component	CAS Number	Concentration
Acrylamide	79-06-1	40.00%
Water	7732-18-5	Rest

SECTION 4 - FIRST-AID MEASURES

4.1 Description of first aid measures

General advice: Consult a doctor and show this safety data sheet.

- If inhaled:** Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor.
- In case of skin contact:** Immediately wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. Consult a doctor.
- In case of eye contact:** Flush with copious amounts of water for at least 15 minutes. Consult a doctor.
- If swallowed:** Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed: To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

4.3 Indication of immediate medical attention and special treatment needed: Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

SECTION 5 - FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

5.2 Special hazards arising from the substance or mixture: Carbon oxides, Nitrogen oxides (NO_x).

5.3 Precautions for fire-fighters: Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.

5.4 Further information:

Health	Flammability	Instability	Physical Hazards
3	2	2	N/A

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures: Do not take action without suitable protective clothing - see section 8 of SDS. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust or gas.

6.2 Environmental precautions: Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up: Cover spillage with suitable absorbent



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material. Using non-spark tools, sweep up material and place in an appropriate container. Decontaminate spill site with 10% caustic solution and ventilate area until after disposal is complete. Hold all material for appropriate disposal as described under section 13 of SDS.

6.4 Reference to other sections: For required PPE see section 8. For disposal see section 13.

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for safe handling: Use in a chemical fume hood, with air supplied by an independent system. Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of dust and aerosols. Use in a well-ventilated area. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

7.2 Conditions for safe storage, including any incompatibilities: Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use. Keep in a dry place.

7.3 Specific end use(s): Use in a laboratory fume hood where possible.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	Acrylamide	Acrylamide	Acrylamide
CAS#	79-06-1	79-06-1	79-06-1
Value	TWA	TWA	TWA
Control Parameters	0.300000 mg/m3	0.300000 mg/m3	0.300000 mg/m3
Basis	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants Remarks Skin designation	USA. NIOSH Recommended Exposure Limits Potential Occupational Carcinogen See Appendix A Potential for dermal absorption	USA. ACGIH Threshold Limit Values (TLV) Central Nervous System impairment Confirmed animal carcinogen with unknown relevance to humans Danger of cutaneous absorption

Exposure Guidelines

Component	ACGIH TVL	OSHA PEL	NIOSH IDLH	MEXICO OEL (TWA)
Acrylamide	TWA: 0.03 mg/m3 Skin	(Vacated) TWA: 0.03 mg/m3 Skin TWA: 0.3 mg/m3	IDLH: 60 mg/m3 TWA: 0.03 mg/m	STEL: 0.03 mg/m3

Legend

ACGIH – American Conference of Governmental Industrial Hygienists

OSHA – Occupational Safety and Health Administration



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NIOSH IDLH: NIOSH National Institute for Occupational Safety and Health

8.2 Exposure Controls

- i. **Appropriate engineering controls:** Use in a fume hood where applicable. Ensure all engineering measures described under section 7 of SDS are in place. Ensure laboratory is equipped with a safety shower and eye wash station.

8.3 Personal protective equipment

- i. **Eye/face protection:** Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
- ii. **Skin protection:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166
- iii. **Body Protection:** Wear appropriate protective clothing. Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- iv. **Respiratory Protection:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
- v. **Control of environmental exposure:** Do not let product enter drains

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Clear, Colorless, Liquid	Vapor Pressure	No Data Available
Odor	No Data Available	Vapor Density	No Data Available
Odor Threshold	No Data Available	Relative Density	No Data Available
pH	No Data Available	Water Solubility	No Data Available
Melting / Freezing Point	82 - 86 °C	Partition Coefficient	log Pow: -0,9 at 20 °C
Initial Boiling Point Range	125 °C at 33 hPa - lit.	Auto-Ignition Temperature	No Data Available
Flash Point	138 °C - closed cup	Decomposition Temperature	No Data Available
Evaporation Rate	No Data Available	Viscosity	No Data Available
Flammability (Solid, Gas)	No Data Available	Explosive Properties	No Data Available
Upper / Lower Flammability or Explosive Limits	No Data Available	Oxidizing Properties	No Data Available

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions

Hazardous Decomposition Products/Hazardous Polymerization: No data available

Incompatibilities: No data available



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SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Acrylamide	LD50 Oral - Rat - female - 177 mg/kg	LD50 Dermal - Rabbit - male and female - 1.141 mg/kg	> 1,500 mg/m (Rat) 4 h

Toxicologically Synergistic Products: The environmental impact of this product has not been fully investigated

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

Irritation: Irritating to eyes

Carcinogenicity: The table below indicated whether each agency has any listed ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Acrylamide	79-06-1	Group 2A	Reasonably Anticipated	A3	Listed	A3

SECTION 12 - ECOLOGICAL INFORMATION

Eco Toxicity: The environmental impact of this product has not been fully investigated

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Acrylamide	Pseudokirchneriella subcapitata - 56 mg/l - 72 h	Cyprinus carpio (Carp) - 5 mg/l - 28 d 124 mg/L LC50 96 h---74-150 mg/L LC50 96 h 81-150 mg/L LC50 96 h-103-115 mg/L LC50 96 h 137-191 mg/L LC50 96 h	Photobacterium phosphoreum - 13.500 mg/l	Daphnia magna (Water flea) - 98 mg/l - 48

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Results of BPT and vPvB assessment: No data available

Acute Toxicity

Component	Log Pow
Acrylamide	-1.24

Results of PBT and vPvB assessment: No data available

Other adverse effects: No data available



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Chronic Toxicity: There are no known carcinogenic chemicals in this product

SECTION 13 - DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Component	RCRA – U Series Wastes	RCRA – P series Wastes
Acrylamide	79-06-1	U007

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 14 - TRANSPORT INFORMATION

DOT	TDG	IATA	IMDG/IMO
UN Number: 3426 Name: Acrylamide Hazard Class: 6.1 Packing Group: III	UN Number: 3426 Name: Acrylamide Hazard Class: 6.1 Packing Group: III	UN Number: 3426 Name: Acrylamide Hazard Class: 6.1 Packing Group: III	UN Number: 3426 Name: Acrylamide Hazard Class: 6.1 Packing Group: III

SECTION 15 - REGULATORY INFORMATION

INTERNATIONAL INVENTORIES

TCA	DSL	NDSL	ELINCS	NLP	PICCS	ENCS	AICS	CHINA	KECL
Listed	Listed	-	-	-	Listed	Listed	Listed	Listed	Listed

USA FEDERAL REGULATIONS

SARA 311/312 HAZARDOUS CATEGORIZATION

Acute Health Hazard	Chronic Health Hazard	Fire Hazard	Sudden Release of Pressure Hazard	Reactive Hazard
Yes	Yes	No	No	No

Clean Water Act/ Clean Air Act: No Data Available

Clean Air Act: Not Applicable

California Proposition 65: This product contains Proposition 65 chemicals.

Component	CAS#	Type of Toxicity	Listing Mechanism	Prop 65 NSRL or MADL (µg/day)
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Acrylamide	79-06-1	developmental, male	AB	140
		cancer	AB	0.20

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

Component	Hazardous Substance RQs	CERCLA EHS RQs
Acrylamide	5000 lb	5000 lb

STATE RIGHT TO KNOW

Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Listed	Listed	Listed	Listed	Listed

HMIS Rating

Health hazard	Chronic Health Hazard	Flammability	Physical Hazard
2	0	0	0

NFPA Rating

Health hazard	Fire Hazard	Reactivity Hazard
2	0	0

US DEPARTMENT OF TRANSPORTATION

REPORTABLE QUANTITY (RQ)	DOT MARINE POLLUTANT	DOT SEVER MARINE POLLUTANT
Yes	No	No

U.S. DEPARTMENT OF HOMELAND SECURITY: This product does not contain any DHS chemicals.

Canada: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

This SDS complies with the requirements of Regulation (EC).

SECTION 16 - OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Boston BioProducts, Inc shall not be held liable for any damage resulting from handling or from contact with the above product. This product is sold for laboratory research and development purposes use only.

Revised: 2025