

Safety Data Sheet


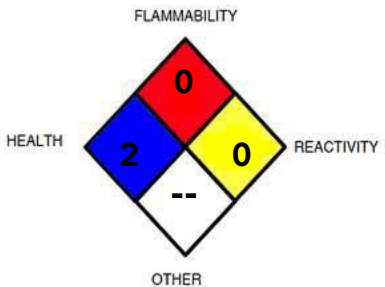
Section 1: Product & Company Identification

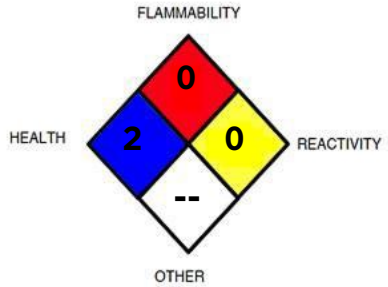
Product Name:	Acrylamide/bis-Acrylamide, 37.5:1 Ratio Solution
Product #:	A-2681
Synonyms:	-
Supplier:	AG Scientific Holdings, LLC 9950 Scripps Lake Drive, Suite 104 San Diego, CA 92131 Tele# + 858-452-9925
Emergency Tele#:	ChemTel, Tele# in USA 1-800-255-3924, International 1-813-248-0585

Section 2: Composition / Information on Ingredients

Component	CAS#	EC #	W/V %
Water	7732-18-5	231-791-2	Q.S
Acrylamide	79-06-1	201-173-7	38.96
Bis-Acrylamide	110-26-9	203-750-9	1.04

Section 3: Hazards Identification

Symbols	
HMIS Classification	<p style="text-align: center;">FLAMMABILITY</p>  <p style="text-align: center;">OTHER</p>

NFPA Classification	
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Section 4: First Aid Measures

General Overview:	Consult a doctor and show this safety data sheet.
Inhalation:	Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor.
Skin:	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.
Eyes:	Flush with copious amounts of water for at least 15 minutes. Consult a doctor.
Ingestion:	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.
	See section 11 for more detailed information on health effects & symptoms.

SECTION 5: Fire Fighting Measures

Flammability of the product:	No data available
Extinguishing Media:	Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.
Hazardous thermal (de)composition products:	Carbon oxides, Nitrogen oxides (NO _x).
Special Fire Fighting Procedures:	Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.
Flash Point:	No data available

Section 6: Accidental Release Measures




Personal Precautions:	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.
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Environmental Precautions:	Do not let product enter drains.
Methods for Clean-up:	Cover spillage with suitable absorbent 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.

SECTION 7: Handling & Storage

Storage:	Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use. Keep in a dry place. Recommended storage temperature: 2 - 8°C
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.

SECTION 8: Exposure controls / Personal Protection

Respiratory Protection:	 <p>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.</p>
Skin and Body:	  <p>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.</p>

	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.
Eyes:	 <p>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).</p>
Ventilation/Engineering Measures:	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.
Hygiene:	Handle in accordance with good industrial hygiene and safety practice.
Control Parameters:	<p>Acrylamide (CAS 79-06-1) TWA: 0.300000 mg/m³ Basis: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants Remarks Skin designation Basis: USA. NIOSH Recommended Exposure Limits Potential Occupational Carcinogen See Appendix A Potential for dermal absorption Basis: USA. ACGIH Threshold Limit Values (TLV) Central Nervous System impairment Confirmed animal carcinogen with unknown relevance to humans Danger of cutaneous absorption</p>

SECTION 9: Physical and Chemical Properties

Appearance & Odor:	Liquid
Formula	N/A
Molecular Wt.	N/A
Melting Pt.	No data available
Boiling Pt.	No data available
Density:	No data available
Vapor Pressure:	No data available
Evaporation Rate:	No data available
Vapor Density:	No data available
Solubility:	Water
Flash Point:	No data available

Autoignition Temp:	No data available
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SECTION 10: Stability and Reactivity

Stability:	Stable under recommended storage conditions.
Hazardous decomposition products:	No data available
Materials to Avoid:	No data available
Conditions to avoid:	No data available

SECTION 11: Toxicological Information

RTECS#:	N/A
ACUTE Toxicity:	Acrylamide: LD50 Oral = 177 mg/kg (Rat) LD50 Dermal = 1,141 mg/kg (Rabbit) LD50 Inhalation = >1,500 mg/m (Rat) 4h
CHRONIC Toxicity:	Acrylamide is a possible cancer hazard. May cause cancer based on animal data:
Chronic Exposure: Carcinogen: Mutagen: Teratogen: Reproductive:	IARC: Acrylamide (CAS 79-06-1) Group 2A AGGIH: Acrylamide (CAS 79-06-1) A3 NTP: Acrylamide (CAS 79-06-1) Reasonably anticipated OSHA: Acrylamide (CAS 79-06-1) Listed EPA: No classification on carcinogenic data is available from EPA Mutagenic Effect: May cause heritable genetic damage Reproductive Effects: Cat. 2: Substances which should be regarded as if they impair fertility in humans. STOT - single exposure: Central nervous system (CNS)

SECTION 12: Ecological Information

Ecotoxicity:	Do not empty into drains. Component: Acrylamide <ul style="list-style-type: none"> • Freshwater Fish: <ul style="list-style-type: none"> ○ 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 • Water Flea: <ul style="list-style-type: none"> ○ EC50 = 98 mg/L (48 h)
Mobility:	Acrylamide: log Pow = -1.24

Persistence and degradability:	No data available
Bioaccumulative potential:	No data available
Other adverse effects:	No data available
Corrosivity Characteristic:	No data available
General Notes:	To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

SECTION 13: Disposal Considerations

Residue Waste or Unused product:	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.
Contaminated Packaging:	Dispose of container and unused contents in accordance with federal, state, and local requirements. Component: Acrylamide CAS: 79-06-1 RCRA - U Series Wastes: U007

SECTION 14: Transportation Information

UN ID#:	3426
ADR / RID (LAND):	UN# 3426 Proper Shipping Name: Acrylamide, Solution Hazard Class: 6.1 Packaging Group: III
DOT regulations:	UN# 3426 Proper Shipping Name: Acrylamide, Solution Hazard Class: 6.1 Packaging Group: III
IMDG/IMO (SEA):	UN# 3426 Proper Shipping Name: Acrylamide, Solution Hazard Class: 6.1 Packaging Group: III
IATA/DGR (AIR):	UN# 3426 Proper Shipping Name: Acrylamide, Solution Hazard Class: 6.1 Packaging Group: III
Special Provisions:	N/A

SECTION 15: Regulatory Information

Health Phrases:	<p>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 or the unborn child H372 Causes damage to organs through prolonged or repeated exposure H402 Harmful to aquatic life</p>
Risk Phrases:	<p>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.</p>
Safety Phrases:	<p>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. P312 Call a POISON CENTER or doctor/physician if you feel unwell. 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. P332 + P313 If skin irritation occurs: 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.</p>
EU Regulations:	N/A
US Regulations:	TSCA: Acrylamide (CAS 79-06-1), Bis-Acrylamide (CAS 110-26-9), Water (CAS 231-791-2)

	<p>California Proposition 65: Acrylamide (CAS 79-06-1), Carcinogen Developmental Male Reproductive, NSRL: 0.2 µg/day, Developmental Carcinogen</p> <p>Massachusetts State Right to Know: Acrylamide (CAS 79-06-1) New Jersey State Right to Know: Acrylamide (CAS 79-06-1) Pennsylvania State Right to Know: Acrylamide (CAS 79-06-1) Illinois State Right to Know: Acrylamide (CAS 79-06-1) Rhode Island State Right to Know: Acrylamide (CAS 79-06-1)</p>
U.S. Federal Regulations:	<p>SARA 302/304 emergency planning and notification: No products were found.</p> <p>SARA 311/312 MSDS distribution-chemical inventory-hazard identification: Acute Health Hazard, Chronic Health Hazard</p> <p>SARA 313 toxic chemicals notification and release reporting: Acrylamide (CAS 79-06-1), Weight: 90-99%, Threshold Value: 0.1%</p> <p>Clean Air Act: Acrylamide (CAS 79-06-1), HAPS Data: Listed CERCLA: Acrylamide (CAS 79-06-1), Hazardous Substances RQs: 5,000 lb, CERCLA EHS RQs: 5,000 lb</p> <p>OSHA: Acute toxicity, oral (Cat. 3); Acute toxicity, dermal (Cat. 4); Skin corrosion/irritation (Cat. 2); Skin sensitization (Cat. 1); Serious eye damage/eye irritation (Cat. 2); Acute toxicity, inhalation (Cat. 4); Germ cell mutagenicity (Cat. 1); Carcinogenicity (Cat. 1); Reproductive toxicity (Cat. 2); Specific target organ toxicity, repeated exposure (Cat. 1); Acute aquatic toxicity (Cat. 3)</p>
WHMIS (Canada):	<p>DSL: Acrylamide (CAS 79-06-1), Bis-Acrylamide (CAS 110-26-9), Water (CAS 231-791-2)</p>

SECTION 16: Other Information

LIABILITY STATEMENT: *The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. AG Scientific shall not be held liable for any damages resulting from handling or from contact with the above product. AG Scientific products are for research purposes only. Not for human use or consumption.*