



Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 09/17/2014 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifie	er
Product form	: Substance
Trade name	: ACRYLAMIDE
CAS No	: 79-06-1
Product code	: AB00100
Formula	: C3H5NO

Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

: Laboratory use/Manfucturing component/Research

1.3. Details of the supplier of the safety data sheet

AmericanBio, Inc. 15 Erie Dr.

1.2.

Natick, MA 01760 - USA T 800.443.0600 - F 508.655.2754 info@americanbio.com - www.americanbio.com

1.4. **Emergency telephone number**

Emergency number

: 855.835.2572 (U.S.) :: 760.602.8703 (Outside U.S.)

SECTION 2: Hazards identification

Classification of the substance or mixture 2.1.

Classification (GHS-US)

Acute Tox. 3 (Oral)	H301
Acute Tox. 3 (Dermal)	H311
Acute Tox. 4 (Inhalation:dust,mist)	H332
Skin Irrit. 2	H315
Skin Sens. 1	H317
Muta. 1B	H340
Carc. 1B	H350
STOT RE 1	H372

2.2. **Label elements**

GHS-US labeling

Hazard pictograms (GHS-US)

	GHS06 GHS07 GHS08
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	 H301+H311 - Toxic if swallowed or in contact with skin H315 - Causes skin irritation H317 - May cause an allergic skin reaction H332 - Harmful if inhaled H340 - May cause genetic defects H350 - May cause cancer H372 - Causes damage to organs through prolonged or repeated exposure
Precautionary statements (GHS-US)	 P201 - Obtain special instructions before use P202 - Do not handle until all safety precautions have been read and understood P260 - Do not breathe dust, mist P261 - Avoid breathing dust, mist P264 - Wash hands, forearms and face 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 P280 - Wear eye protection, protective clothing, protective gloves P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician P302+P352 - IF ON SKIN: Wash with plenty of soap and water

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P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P308+P313 - IF exposed or concerned: Get medical advice/attention

P312 - Call a POISON CENTER/doctor/physician if you feel unwell

P314 - Get medical advice and attention if you feel unwell

P321 - Specific treatment (see SECTION 4 on this label)

P330 - If swallowed, rinse mouth

P332+P313 - If skin irritation occurs: Get medical advice/attention

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention

P361 - Remove/Take off immediately all contaminated clothing

P362 - Take off contaminated clothing and wash before reuse

P362+P364 - Take off contaminated clothing and wash it before reuse

P363 - Wash contaminated clothing before reuse

P405 - Store locked up

P501 - Dispose of contents/container to Collect all waste in suitable and labeled containers and dispose according to local legislation

2.3. **Other hazards**

No additional information available

Unknown acute toxicity (GHS-US) 2.4.

No data available

SECTION 3: Composition/information on ingredients

Substance 3.1.

Name	Product identifier	%	Classification (GHS-US)
ACRYLAMIDE (Main constituent)	(CAS No) 79-06-1	100	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Skin Sens. 1, H317 Muta. 1B, H340 Carc. 1B, H350 STOT RE 1, H372

Full text of H-phrases: see section 16

Mixture 3.2.

Not applicable

SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical adv (show the label where possible).	vice
First-aid measures after inhalation	: Assure fresh air breathing. Allow the victim to rest. Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwe	
First-aid measures after skin contact	: Immediately call a POISON CENTER or doctor/physician. Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Specific measures (see Consult doctor/medical service on this label). Wash contaminated clothing before reuse. If skin irritati occurs: Consult a doctor/medical service. Get medical advice/attention. Specific treatment (s Consult a doctor/medical service on this label). If skin irritation or rash occurs: Get immediated medical advice/attention.	ion see
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.	
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Immediately ca POISON CENTER or doctor/physician. Specific treatment (see Consult a doctor/medical servif you feel unwell on this label).	
4.2. Most important symptoms and effect	cts, both acute and delayed	
Symptoms/injuries	: May cause genetic defects. May cause cancer. Causes damage to organs through prolonged repeated exposure.	d or
Symptoms/injuries after inhalation	: Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled. May cause an allergic skin reaction.	
Symptoms/injuries after skin contact	: Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin. Causes skin irritation.	
Symptoms/injuries after ingestion	: Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard.	
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4.3. Indication of any immediate me No additional information available	dical attention and special treatment needed
SECTION 5: Firefighting measure	
5.1. Extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Jnsuitable extinguishing media	: No unsuitable extinguishing media known. Do not use a heavy water stream.
5.2. Special hazards arising from the No additional information available	e substance of mixture
5.3. Advice for firefighters	
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any
	chemical fire. Avoid (reject) fire-fighting water to enter environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release n	neasures
6.1. Personal precautions, protectiv	e equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
	Notify authorities if liquid enters sewers or public waters.
6.3. Methods and material for conta	inment and cleaning up
Methods for cleaning up	: On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.
6.4. Reference to other sections	
See Heading 8. Exposure controls and pers	onal protection.
SECTION 7: Handling and storag	e
7.1. Precautions for safe handling	
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Use only outdoors or in a well-ventilated area. Avoid breathing dust. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Eliminate all ignition sources if safe to do so. Do not breathe dust.
Hygiene measures	: Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, inc	luding any incompatibilities
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.
Incompatible products	: Strong bases. strong acids.
ncompatible materials	: Sources of ignition. Direct sunlight.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/p	ersonal protection
3.1. Control parameters	
ACRYLAMIDE (79-06-1)	
USA ACGIH ACGIH TV	VA (mg/m ³) 0.03 mg/m ³
8.2. Exposure controls	
Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or safety glasses.

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Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: Wear approved mask.
Other information	: When using, do not eat, drink or smoke.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and	chemical properties
Physical state	: Solid
Molecular mass	: 71.08 g/mol
Color	: Colorless.
Odor	: characteristic.
Odor threshold	: No data available
рН	: 5.0 - 6.5 (50 %)
pH solution	: 50 %
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: 85 °C
Freezing point	: No data available
Boiling point	: 125 °C (33 hPa)
Flash point	: No data available
Self ignition temperature	: 240 °C
Decomposition temperature	: > 85 °C
Flammability (solid, gas)	: No data available
Vapor pressure	: 0.007 hPa
Vapor pressure at 50 °C	: 0.15 hPa
Relative vapor density at 20 °C	: 2.45
Relative density	: 1.12 (30 °C)
Relative density of saturated gas/air mixture	: 1.0
Density	: 1222 kg/m³
Solubility	: Water: 216 g/100ml Ethanol: 86 g/100ml Acetone: 63 g/100ml
Log Pow	: -0.67
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: Not applicable
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available
9.2. Other information	
Saturation concentration	: 0.026 g/m³
VOC content	: 0%

10.1.	Reactivity
No addit	onal information available
10.2.	Chemical stability
Not esta	blished.
10.3.	Possibility of hazardous reactions
Not esta	blished.
10.4.	Conditions to avoid
Direct su	nlight. Extremely high or low temperatures.
10.5.	Incompatible materials
strong ad	sids. Strong bases.

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10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	:	Toxic if swallowed. Toxic in contact with skin. Harmful if inhaled.
ACRYLAMIDE (\f)79-06-1		
LD50 oral rat		124 mg/kg (Rat)
LD50 dermal rat		400 mg/kg (Rat)
LD50 dermal rabbit		1885 mg/kg (Rabbit)
Skin corrosion/irritation	:	Causes skin irritation.
		pH: 5.0 - 6.5 (50 %)
Serious eye damage/irritation	:	Not classified
		pH: 5.0 - 6.5 (50 %)
Respiratory or skin sensitization	:	May cause an allergic skin reaction.
Germ cell mutagenicity	:	May cause genetic defects.
Carcinogenicity	:	May cause cancer.
ACRYLAMIDE (79-06-1)		
IARC group		2A - Probably Carcinogenic to Humans
National Toxicology Program (NTP) Status		3 - Reasonably anticipated to be Human Carcinogen
Reproductive toxicity	:	Not classified
Specific target organ toxicity (single exposure)	:	Not classified
Specific target organ toxicity (repeated	:	Causes damage to organs through prolonged or repeated exposure.
exposure)		Causes damage to organs through prolonged or repeated exposure
Aspiration hazard	:	Not classified
Potential Adverse human health effects and symptoms	:	Based on available data, the classification criteria are not met. Harmful if inhaled. Toxic if swallowed. Toxic in contact with skin.
Symptoms/injuries after inhalation	:	Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled. May cause an allergic skin reaction.
Symptoms/injuries after skin contact	:	Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin. Causes skin irritation.
Symptoms/injuries after ingestion	:	Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard.

SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - air	: TA-Luft Klasse 5.2.7.1.1/II.	
ACRYLAMIDE (79-06-1)		
LC50 fish 1	110 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); Flow-through system)	
EC50 Daphnia 1	230 mg/l (24 h; Daphnia magna; Flow-through system)	
LC50 fish 2	100 mg/l (96 h; Lepomis macrochirus)	
EC50 Daphnia 2	98 mg/l (48 h; Daphnia magna; Flow-through system)	
Threshold limit other aquatic organisms 1	56 mg/l (96 h; Pimephales promelas)	
Threshold limit other aquatic organisms 2	60 mg/l (48 h; Daphnia magna; Flow-through system)	
12.2. Persistence and degradability		
ACRYLAMIDE (79-06-1)		
Persistence and degradability	Not established.	
Biochemical oxygen demand (BOD)	0.97 g O ² /g substance	

r ersisterice and degradability	Not established.
Biochemical oxygen demand (BOD)	0.97 g O ² /g substance
Chemical oxygen demand (COD)	1.3 g O ² /g substance
ThOD	2.14 g O ² /g substance
BOD (% of ThOD)	45 % ThOD

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12.3. Bioaccumulative potential				
ACRYLAMIDE (79-06-1)				
BCF fish 1	25.7 mg/kg (480 h; Oryzias latipes)			
BCF fish 2	7.4 mg/kg (960 h; Cyprinus carpio)			
Log Pow	-0.67			
Bioaccumulative potential	Not established.			
12.4. Mobility in soil				
No additional information available				
12.5. Other adverse effects				
Other information	: Avoid release to the environment.			
SECTION 13: Disposal considerations				
13.1. Waste treatment methods	 Discussion and the second second second the second strength of the second stre			
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to Use appropriate containment to avoid environmental contamination.			
Ecology - waste materials	: Avoid release to the environment. Hazardous waste due to toxicity.			
SECTION 14: Transport information				
In accordance with DOT				
Transport document description	: UN2074 Acrylamide, solid, 6.1, III			
UN-No.(DOT)	: 2074			
DOT NA no.	: UN2074			
DOT Proper Shipping Name	: Acrylamide, solid			
Department of Transportation (DOT) Hazard Classes	: 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132			
Hazard labels (DOT)	: 6.1 - Poison inhalation hazard			
	6			
Packing group (DOT)	: III - Minor Danger			
DOT Special Provisions (49 CFR 172.102)	 IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2). IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner. T1 - 1.5 178.274(d)(2) Normal 178.275(d)(2) TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter. 			
DOT Packaging Exceptions (49 CFR 173.xxx)	: 153			
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 213			
DOT Packaging Bulk (49 CFR 173.xxx)	: 240			
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 100 kg			
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 200 kg			
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.			

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DOT Vessel Stowage Other	: 12 - Keep as cool as reasonably practicable
Additional information	
Other information	: No supplementary information available.
ADR	
Transport document description	: UN N/A
Packing group (ADR)	: N/A
Hazard identification number (Kemler No.)	: N/A
Classification code (ADR)	: N/A
Transport by sea	
No additional information available	
Air transport	
No additional information available	
SECTION 15: Regulatory information	on
15.1. US Federal regulations	
ACRYLAMIDE (79-06-1)	
Listed on the United States TSCA (Toxic Sub Listed on SARA Section 313 (Specific toxic c	
RQ (Reportable quantity, section 304 of EPA	's 5000 lb

List of Lists) :

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

H350 Carc. 1B Muta. 1B H340 Repr. 2 H361f Acute Tox. 3 (Oral) STOT RE 1 H301 H372 STOT RE 1 H372 STOT RE 1 H372 Acute Tox. 4 (Inhalation) H332 Acute Tox. 4 (Dermal) H312 Eye Irrit. 2 H319 Skin Irrit. 2 H315 Skin Sens. 1 H317

Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

Carc.Cat.2; R45 Muta.Cat.2; R46 T; R25 T; R48/23/24/25 Xn; R20/21 Xi; R36/38 R43 Full text of R-phrases: see section 16

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15.2.2. National regulations

ACRYLAMIDE (79-06-1)

Listed on IARC (International Agency for Research on Cancer) Listed as carcinogen on NTP (National Toxicology Program)

15.3. US State regulations

ACRYLAMIDE(79-06-1)		
U.S California - Proposition 65 - Carcinogens List	Yes	
U.S California - Proposition 65 - Developmental Toxicity	Yes	
U.S California - Proposition 65 - Reproductive Toxicity - Male	Yes	
State or local regulations	U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List	

SECTION 16: Other information

Other information

: None.

Full text of H-phrases: see section 16:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Carc. 1B	Carcinogenicity Category 1B
Muta. 1B	Germ cell mutagenicity Category 1B
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
H301	Toxic if swallowed
H311	Toxic in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H332	Harmful if inhaled
H340	May cause genetic defects
H350	May cause cancer
H372	Causes damage to organs through prolonged or repeated exposure

NFPA health hazard 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given. NFPA fire hazard 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur. NFPA reactivity 2 - Normally unstable and readily undergo violent decomposition but do not detonate. Also: may react violently with water or may form potentially explosive mixtures with water.

SDS US (GHS HazCom 2012)

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