



## IBI SCIENTIFIC

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Issuing Date: 26-Dec-1997

Revision Date: 20-Jan-2012

Rev. 3

### 1. IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND THE COMPANY/UNDERTAKING

**Product Name:** Acrylamide Solution 40% 19:1  
**Product Code:** IB70014 & IB70015  
**Recommend Use:** For further manufacturing use only  
Not for human or animal drug use  
**Company:** IBI SCIENTIFIC  
9861 Kapp Court  
Peosta, IA 52068  
**Emergency Tele. Number:** 3E Company (Acct# 9027) 1-800-451-8346 / (001) 760-602-8703  
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### 2. HAZARDOUS IDENTIFICATION

#### GHS – Classification

**Classification:** Carcinogen 1B Germ Cell Mutagenicity 1B Toxic to Reproduction 2 Acute Toxicity Oral  
3 Specific Target Organ Toxicity (repeated) 3 Acute Toxicity Inhalation 4 Skin Irritant 2  
Eye Irritant 2 Skin Sensitizer 1 Acute Toxicity Dermal 4  
**Signal Word:** Danger



**Hazard Statements:** H350-May cause cancer \* H340-May cause genetic defects \* H361-Suspected of  
damaging fertility or the unborn child \* H301-Toxic if swallowed \* H372-Causes  
damage to organs through prolonged or repeated exposure \* H312-Harmful in contact  
with skin \* H332-Harmful if inhaled \* H319-Causes serious eye irritation \* H315-Causes  
skin irritation \* H317-May cause an allergic skin reaction.

**Precautionary Statements:** P301+P310-IF SWALLOWED: Immediately call a Poison Center or doctor/physician \*  
P308+P313-IF EXPOSED OR CONCERNED: Get medical attention/advice \* P280-  
Wear protective gloves/protective clothing/eye protection/ face protection \* 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.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<b>Chemical Name:</b>	<u>Acrylamide</u>	<u>N,N-Methylenebisacrylamide</u>
<b>EC No.:</b>	EEC No. 201-173-7	-
<b>REACH Reg. No.:</b>	Not Available	Not Available
<b>CAS No.:</b>	79-06-1	110-26-9
<b>Weight %:</b>	35-50	0-5
<b>Classification:</b>	Carc.Cat.2;R45 * muta.Cat.2;R46 * Repr.Cat.3;R62 * T;R25-48/23/24/25 * Xn;r20/21 * Xi;R36/38 * R43	-

### 4. FIRST AID MEASURES

<b>Eye Contact:</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>Skin Contact:</b>	Wash off immediately with soap and plenty of water, removing all contaminated clothes and shoes.
<b>Inhalation:</b>	Move to fresh air.. If breathing is difficult, give oxygen.
<b>Ingestion:</b>	Clean mouth with water and afterwards drink plenty of water. Never give anything by mouth to an unconscious person.
<b>Notes to Physician:</b>	Treat symptomatically.

### 5. FIRE FIGHTING MEASURES

<b>Flammable Properties:</b>	Not flammable
<b>Flash Point:</b>	Not determined
<b>Suitable Extinguishing Media:</b>	Dry chemical, CO <sub>2</sub> , water spray or regular foam
<b>Hazardous Combustion Products:</b>	Carbon oxides, Nitrogen oxides (NO <sub>x</sub> )
<b>Explosion Data</b>	
Sensitivity to Mechanical Impact:	Not sensitive
Sensitivity to Static Discharge:	Not sensitive
<b>Specific Hazard Arising from the Chemical:</b>	Use water spray to cool fire-exposed containers
<b>Protective Equip. &amp; Precautions for Firefighters:</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equiv.) and full protective gear.

### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions:</b>	Avoid contact with skin, eyes, and clothing. Use personal protective equipment. Ensure adequate ventilation.
<b>Methods for Containment:</b>	Prevent further leakage or spillage, if safe to do so.
<b>Methods for Cleaning Up:</b>	Absorb with an inert material. Pick up and transfer to properly labeled containers. Ventilate area and wash spill site after material pickup is complete.

### 7. HANDLING AND STORAGE

<b>Handling:</b>	Handle in accordance with good industrial hygiene and safety practice. Protect from air. Protect from light.
<b>Storage:</b>	Keep container tightly closed in a dry, cool, and well-ventilated place. Protect from air, light, and moisture. Protect from light.
<b>Incompatible Products:</b>	Strong oxidizing agents. Acids. Bases.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Chemical Name:</b>	<u>Acrylamide - #79-06-1</u>	<u>N,N-Methylenebisacrylamide-#110-26-9</u>
ACGIH TLV:	TWA: 0.03mg/m <sup>3</sup>	-
OSHA PEL:	TWA: 0.3mg/m <sup>3</sup> (vacated) TWA: 0.03mg/m <sup>3</sup> Skin	-
NIOSH IDLH:	IDLH: 60mg/m <sup>3</sup> TWA: 0.03mg/m <sup>3</sup>	-

**Engineering Measures:** Showers, Eyewash Stations, Ventilation Systems

#### Personal Protective Equipment

Eye/Face Protection:	Tight fitting safety goggles.
Skin & Body Protection:	Wear protective gloves/clothing.
Respiratory Protection:	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety practice.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Clear and colorless solution
<b>Odor:</b>	No information available
<b>Odor Threshold:</b>	No information available
<b>Decomposition Temp. °C:</b>	No information available
<b>Freezing Point:</b>	No information available
<b>Initial Boiling Point:</b>	No information available
<b>Physical State:</b>	Solution
<b>pH:</b>	No data available
<b>Flash Point:</b>	No data available
<b>Autoignition Temp. °C:</b>	No data available
<b>Boiling Point/Range:</b>	No data available
<b>Melting Point/Range:</b>	No data available
<b>Flammability Limits (Air):</b>	<u>Upper</u> -No data available * <u>Lower</u> -No data available
<b>Explosive Properties:</b>	No information available
<b>Oxidizing Properties:</b>	No information available
<b>Evaporation Rate:</b>	No information available
<b>MMHG @ 37.8°C:</b>	No data available
<b>Vapor Density:</b>	No data available
<b>Specific Gravity:</b>	No data available
<b>Solubility:</b>	No information available
<b>Partition Coefficient (n-octanol/water):</b>	No data available
<b>Viscosity:</b>	No information available

### 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under recommended storage conditions
<b>Incompatible Products:</b>	Strong oxidizing agents. Acids. Bases.
<b>Conditions to Avoid:</b>	Protect from moisture. Protect from light and moisture.
<b>Hazardous Decomposition Products:</b>	Carbon oxides. Nitrogen oxides (NO <sub>x</sub> ).
<b>Hazardous Polymerization:</b>	Hazardous polymerization may occur.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

Product Information: Toxic by inhalation, in contact with skin or if swallowed. Neurotoxin. Sensitizer. Irritating to eye, skin, and respiratory system

Chemical Name: Acrylamide

LD50 Oral: 124mg/kg (Rat)

LD50 Dermal: 1680mg/kg (Rabbit)  
400mg/kg (Rat)

LC50 Inhalation: -

### Chronic Toxicity

Chronic Toxicity: May cause heritable genetic damage. Suspected carcinogen. May cause reproductive disorders.

Chemical Name: Acrylamide

ACGIH: A3

IARC: Group 2A

NTP: Reasonably Anticipated

OSHA: X

**Target Organ Effects:** Nerves, Kidneys

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity:

Harmful to aquatic organisms

### **Chemical Name:**

Acrylamide-#79-06-1

Toxicity to Algae:

-

Toxicity to Fish:

LC50 = 109mg/L Pimephales promelas (96h)  
LC50 = 120mg/L Brachydanio rerio (96h)  
LC50 = 124mg/L Pimephales promelas (96h)  
LC50 = 162mg/L Oncorhynchus mykiss (96h)  
LC50 = 85mg/L Lepomis macrochirus (96h)

Microtox

-

Daphnia Magna (Water Flea):

EC50 = 98mg/L (48h)

Log Pow

-1.24

## 13. DISPOSAL CONSIDERATIONS

**Water Disposal Method:** Dispose of material in accordance with all federal, state, and local regulations.

**Contaminated Packaging:** Dispose of in accordance with all federal, state, and local regulations.

## 14. TRANSPORT INFORMATION

### IATA

UN# UN2810

Proper Shipping Name TOXIC LIQUID, ORGANIC, N.O.S. (Containing Acrylamide)

Hazardous Class 6.1

Packing Group III

### US DOT

UN# UN2810

Proper Shipping Name TOXIC LIQUID, ORGANIC, N.O.S. (Containing Acrylamide)

Hazardous Class 6.1

Packing Group III

**15. TOXICOLOGICAL INFORMATION**

**REACH Title VII Restrictions**

	<u>Acrylamide</u>	<u>N,N-Methylenebisacrylamide</u>
<b>Chemical Name:</b>		
Dangerous Substances:	>=>=0.1% (weight)	Not applicable
Organic Solvents:	Not applicable	Not applicable
Harmful Substances Whose Names are to be indicated on the Label:	X	Not applicable
Pollution Release and Transfer Registry (Class II):	Not applicable	Not applicable
Pollution Release and Transfer Registry (Class I):	2	Not applicable
Poison and Deleterious Substances Control Law:	Deleterious	Not applicable
ISHA – Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying:	Not applicable	Not applicable
ISHA – Harmful Substances Requiring Permission:	Not applicable	Not applicable
Toxic Chemical Classification Listing (TCCL):	97-1-171, 0.1% or more in mixtures	Not applicable
Toxic Release Inventory (TRI) – Group I:	Not applicable	Not applicable
Toxic Release Inventory (TRI) – Group II:	>=0.1%	Not applicable

**International Inventories**

TSCA:	Does not comply
EINECS/ELINCS:	Does not comply
ENCS:	Does not comply
IECSC:	Does not comply
KECL	Does not comply
PICCS	Does not comply
AICS	Does not comply

**U.S. Federal Regulations**

**SARA 313**

Section 313 of Title III of the superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical/chemicals which are subject to the reporting requirements of the Act & Title 40 of the Code of Federal Regulations, part 372.

Chemical Name:	Acrylamide - #79-06-1
Weight (%):	35-50
SARA 313 – Threshold (%):	0.1

**SARA 311/312 Hazard Categories**

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

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**Clean Air Act**

This product contains the following substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act.

<b>Chemical Name:</b>	Acrylamide - #79-06-1
Weight (%):	35-50
HAPS data:	Present
VOC Chemicals:	Group I
Class 1 Ozone Depletors:	-
Class 2 Ozone Depletors:	-

**CERCLA**

<b>Chemical Name:</b>	Acrylamide - #79-06-1
Hazardous Substances RQs	5000lbs
Extremely Hazardous Sub. RQs:	5000lbs

**U.S. State Regulations**

**California Proposition 65**

**Chemical Name:**

California Prop. 65:

**State**

Massachusetts  
New Jersey  
Pennsylvania  
Illinois  
Rhode Island

This product contains the following Proposition 65 chemicals.

Acrylamide - #79-06-1

Carcinogen

Acrylamide - #79-06-1

X

X

X

X

X

**International Regulations**

**Mexico**

**Chemical Name:**

Acrylamide - #79-06-1

Carcinogen Status:

A3

Exposure Limits:

Mexico: TWA = 0.03mg/m<sup>3</sup>

Mexico: STEL = 0.06mg/m<sup>3</sup>

**Canada**

**WHMIS Hazard Class**

D1B – Toxic materials

D2A – Very toxic materials

D2B – Toxic materials



**Chemical Name:**

Acrylamide

NPRI:

X

**16. OTHER INFORMATION**

**Issuing Date:**

26-Dec-1997

**Revision Date:**

20-Jan-2012

**Revision Note:**

Update to GHS Standard

**Recommended Restrictions:**

No information available

**Disclaimer:**

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal, and release; & is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the test.

**End of MSDS**