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Rev. 6

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

Product Name: 30% Acrylamide Solution 29:1
Product Code: IB70002 & IB70003
Recommend Use: For further manufacturing use only
Uses Advised Against: Not for human or animal drug use
Company: IBI SCIENTIFIC
7445 Chavenelle Road
Dubuque, IA 52002
Emergency Tele. Number: 3E Company (Acct# 9027) 1-800-451-8346 / (001) 760-602-8703
Company Tele. Number: 1-800-253-4942 / (001) 563-690-0484
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2. HAZARDOUS IDENTIFICATION

GHS – Classification

OSHA Regulatory Status: This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29CFR 1910.1200)

Acute Toxicity - Oral	Category 4
Acute Toxicity – Inhalation (Dusts/Mists)	Category 4
Skin Corrosion/Irritation:	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Skin Sensitization	Category 1
Germ Cell Mutagenicity	Category 1B
Carcinogenicity	Category 1B
Reproductive Toxicity:	Category 2
Specific Target Organ Toxicity (Single Exposure):	Category 1

Signal Word: Danger



Appearance: Clear, Colorless
Physical State: Solution
Odor: No information available

Hazard Statements: H301-Toxic if swallowed
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

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
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 protective gloves/protective clothing/eye protection/face protection
P281-Use personal protective equipment as required
P301+P310-IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth
P302+P352-IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse.
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 if you feel unwell
P314-Get medical advice/attention if you feel unwell
P330-Rinse mouth
P333+P313-If skin irritation or rash occurs: Get medical advice/attention
P405-Store locked up
P501-Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified: Not regulated

Other Information: May be harmful in contact with skin. Harmful to aquatic life with long lasting effects.
Harmful to aquatic life.

Unknown Acute Toxicity: 0% of the mixture consists of ingredients(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name:	<u>Acrylamide</u>	<u>Methylene diacrylamide</u>
EC No.:	EEC No. 201-173-7	EEC No. 203-750-9
REACH Reg. No.:	Not Available	Not Available
CAS No.:	79-06-1	110-26-9
Weight %:	20 – 40	0.5 – 1.5
Classification:	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

General Advice: Immediately call a POISON center or doctor/physician

Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Skin Contact: Wash off immediately with soap and plenty of water, removing all contaminated clothes and shoes. Consult a physician.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. Consult a physician.

Ingestion: Clean mouth with water and afterwards drink plenty of water. Rinse mouth.

Notes to Physician: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flammable Properties: Not flammable

Specific Hazards Arising from the Chemical: Use water spray to cool fire-exposed containers

Suitable Extinguishing Media: Dry chemical, CO₂, appropriate foam

Hazardous Combustion Products: Carbon oxides, Ammonia

Explosion Data

Sensitivity to Mechanical Impact: Not sensitive

Sensitivity to Static Discharge: Not sensitive

Protective Equip. & Precautions for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equiv.) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Ensure adequate ventilation, especially in confined areas.

Environmental Precautions: See Section 12 for additional ecological information.

Methods for Containment: Prevent further leakage or spillage, if safe to do so.

Methods for Cleaning Up: Absorb on sand or vermiculite and place in closed containers for disposal.

7. HANDLING AND STORAGE

Handling: Handle in accordance with good industrial hygiene and safety practice. Hygroscopic.

Storage: Keep container tightly closed in a dry, cool, and well-ventilated place. Hygroscopic.

Incompatible Products: Iron and Iron Salts, Oxidizing agents, Copper, Free radical initiators, Brass.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines:

Chemical Name:	<u>Acrylamide - #79-06-1</u>	<u>Methylene diacrylamide - #110-26-9</u>
ACGIH TLV:	TWA: 0.03mg/m ³	-
OSHA PEL:	TWA: 0.3mg/m ³	-
NIOSH IDLH:	IDLH: 60mg/m ³	-
	TWA: 0.03mg/m ³	-

Engineering Measures: Showers, Eyewash Stations, Ventilation Systems

Personal Protective Equipment

Eye/Face Protection: Safety glasses with side-shields.

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

Appearance:	Clear, colorless
Odor:	No information available
Odor Threshold:	No information available
Decomposition Temp. °C:	No information available
Freezing Point:	No information available
Initial Boiling Point:	No information available
Physical State:	Solution
pH:	No data available
Flash Point:	Not determined
Autoignition Temp. °C:	No data available
Boiling Point/Range:	No data available
Melting Point/Range:	No information available
Flammability Limits (Air):	<u>Upper</u> -No data available * <u>Lower</u> -No data available
Explosion Limits	No information available
Explosive Properties:	No information available
Oxidizing Properties:	No information available
Evaporation Rate:	No information available
MMHG @ 37.8°C:	No data available
Vapor Density:	No data available
Specific Gravity:	No data available
Water Solubility:	No data available
Solubility in other solvents:	No data available
Partition Coefficient (n-octanol/water):	No data available
Viscosity:	No information available

10. STABILITY AND REACTIVITY

Reactivity:	No data available
Chemical Stability:	Stable under recommended storage conditions
Possibility of Hazardous Reactions:	None under normal processing
Incompatible Products:	Acid, Acid chlorides, Anhydrides, Strong oxidizers
Conditions to Avoid:	Hygroscopic. Avoid contact with acids.
Hazardous Decomposition Products:	Iron and iron salts. Oxidizing agents, Copper, Free radical initiators, Brass.
Hazardous Polymerization:	Hazardous polymerization may occur.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information: Toxic in contact with skin and if swallowed. Irritating to eye, skin, and respiratory system. Harmful by inhalation. Neurotoxin. May cause damage to organs. May cause drowsiness and dizziness. Sensitizer.

Inhalation:	There is no data available for this product
Eye Contact:	There is no data available for this product
Skin Contact:	There is no data available for this product
Ingestion:	There is no data available for this product

Chemical Name:	<u>Acrylamide - #79-06-1</u>	<u>Methylene diacrylamide - #110-26-9</u>
LD50 Oral:	124mg/kg (Rat)	390mg/kg (Rat)
LD50 Dermal:	400mg/kg (Rat) = 1680ml/kg (Rabbit)	-
LC50 Inhalation:	-	-

Information on toxicological effects

Symptoms: No information available.

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

Sensitization:	No information available	
Mutagenic Effects:	No information available	
Carcinogenicity:	The table below indicates whether each agency has listed any ingredient as a carcinogen	
Chemical Name:	<u>Acrylamide - #79-06-1</u>	<u>Methylene diacrylamide - #110-26-9</u>
ACGIH:	A3	-
IARC:	Group 2A	-
NTP:	Reasonably Anticipated	-
OSHA:	X	-
Reproductive Toxicity:	No information available	
Teratogenic	May cause congenital malformation in the fetus.	
STOT – single exposure:	Respiratory system	
STOT – repeated exposure:	No information available	
Chronic Toxicity:	Suspected carcinogen. Suspected teratogen. Possible risk of impaired fertility. Repeated contact may cause allergic reactions in very susceptible persons.	
Target Organ Effects:	Nerves, Kidneys.	
Aspiration Effects:	No information available	

Numerical measures of toxicity – Product Information

The following values are calculated based on chapter 3.1 of the GHS document

12. ECOLOGICAL INFORMATION

Ecotoxicity:	1% of mixture consists of component(s) of unknown hazards to aquatic environment	
Chemical Name:	<u>Acrylamide - #79-06-1</u>	
Toxicity to Plant:	-	
Toxicity to Fish:	LC50 Flow thru = 103-115mg/L Pimphales promelas (96h) LC50 Static = 124mg/L Pimephales promelas (96h) LC50 Flow-thru = 81-150mg/L Lepomis macrochirus (96h) LC50 Static = 137-191mg/L Oncorhynchus mykiss (96h) LC50 Flow-thru = 74-150mg/L Oncorhynchus mykiss (96h)	
Daphnia Magna (Water Flee):	EC50 = 98mg/L Daphnia magna (48h) EC50 Flow thru = 98mg/L Daphnia magna (48h)	
Chemical Name:	<u>Methylene diacrylamide - #110-26-9</u>	
Toxicity to Algae:	-	
Toxicity to Fish:	-	
Daphnia Magna (Water Flee):	-	
Persistence and Degradability:	No information available	
Bioaccumulation/Accumulation:	No information available	
Chemical Name:	<u>Acrylamide - #79-06-1</u>	<u>Methylene diacrylamide - #110-26-9</u>
Partition Coefficient:	-1.24	-
Other Adverse Effects:	No information available	

13. DISPOSAL CONSIDERATIONS

Water Disposal Method:	Dispose of material in accordance with all federal, state, and local regulations.	
Contaminated Packaging:	Do not re-use empty containers.	
Chemical Name:	<u>Acrylamide - #79-06-1</u>	<u>Methylene diacrylamide - #110-26-9</u>
RCRA:	waste number U007	-
RCRA – Basis for Listing:	included in waste stream K014	-
RCRA – D Series Wastes:	-	-
RCRA – U Series Wastes:	-	-

Chemical Name:	<u>Acrylamide - #79-06-1</u>	<u>Methylene diacrylamide - #110-26-9</u>
RCRA – Halogenated Organic Compounds:	-	-
RCRA – P Series Wastes:	-	-
RCRA – F Series Wastes:	-	-
RCRA – K Series Wastes:	-	-
Chemical Name:	<u>Acrylamide - #79-06-1</u>	<u>Methylene diacrylamide - #110-26-9</u>
California Hazardous Waste Status:	-	-

14. TRANSPORT INFORMATION

IATA

UN#	UN3426
Proper Shipping Name	ACRYLAMIDE SOLUTION
Hazardous Class	6.1
Packing Group	III

US DOT

UN#	UN3426
Proper Shipping Name	ACRYLAMIDE SOLUTION
Hazardous Class	6.1
Packing Group	III

15. TOXICOLOGICAL INFORMATION

International Inventories

TSCA:	Complies
DSL/NDSL:	Complies
EINECS/ELINCS:	Complies
ENCS:	Does not Comply
IECSC:	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend:

TSCA:	United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL:	Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS:	European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
ENCS:	Japan Existing and New Chemical Substances
IECSC:	China Inventory of Existing Chemical Substances
KECL	Korean Existing and Evaluated Chemical Substances
PICCS	Philippines Inventory of Chemicals and Chemical Substances
AICS	Australian Inventory of Chemical Substances

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 or chemicals which are subject to the reporting requirements of the Act & Title 40 of the Code of Federal Regulations, part 372.

Chemical Name:	<u>Acrylamide - #79-06-1</u>	<u>Methylene diacrylamide - #110-26-9</u>
SARA 313 – Threshold Value:	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).

Chemical Name:	<u>Acrylamide - #79-06-1</u>	<u>Methylene diacrylamide - #110-26-9</u>
CWA – Reportable Quantities:	-	-
CWA – Toxic Pollutants:	-	-
CWA – Priority Pollutants:	-	-
CWA – Hazardous Substances:	-	-

CERCLA This material, as supplied, contains one or more substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Chemical Name:	<u>Acrylamide - #79-06-1</u>	<u>Methylene diacrylamide - #110-26-9</u>
Hazardous Substances RQs:	5000lbs	-
Extremely Hazardous Substances RQs:	5000lbs	-
RQ:	RQ 5000lbs final RQ	-
	RQ 2270kg final RQ	

U.S. State Regulations

California Proposition 65 This product contains the following Proposition 65 chemicals.

Chemical Name:	<u>Acrylamide - #79-06-1</u>	<u>Methylene diacrylamide - #110-26-9</u>
California Prop. 65:	Carcinogen	-
	Developmental	-
	Male Reproductive	-

U.S. Right-to-Know Regulations

Chemical Name:	<u>Acrylamide - #79-06-1</u>	<u>Methylene diacrylamide - #110-26-9</u>
New Jersey:	X	-
Massachusetts:	X	-
Pennsylvania:	X	-

U.S. EPA Label Information

EPA Pesticide Registration #: Not applicable.

Canada No information available

WHMIS Hazard Class

- D1B – Toxic materials
- D2A – Very toxic materials
- D2B – Toxic materials



16. OTHER INFORMATION

Issuing Date: 26-Dec-1997
Revision Date: 11-July-2018
Revision Note: Updated address and logo
Recommended Restrictions: No information available
Disclaimer: The information provided on this SDS 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; and 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 Safety Data Sheet