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Issuing Date: 26-Dec-1997

Revision Date: 11-July-2018

Rev. 5

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
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
E-Mail Address: info@ibisci.com

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

| | | |
|------------------------|--|-----------------------------------|
| Chemical Name: | <u>Acrylamide</u> | <u>N,N-Methylenebisacrylamide</u> |
| EC No.: | EEC No. 201-173-7 | - |
| REACH Reg. No.: | Not Available | Not Available |
| CAS No.: | 79-06-1 | 110-26-9 |
| Weight %: | 35-50 | 0-5 |
| 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

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

5. FIRE FIGHTING MEASURES

| | |
|--|--|
| Flammable Properties: | Not flammable |
| Flash Point: | Not determined |
| Suitable Extinguishing Media: | Dry chemical, CO ₂ , water spray or regular foam |
| Hazardous Combustion Products: | Carbon oxides, Nitrogen oxides (NO _x) |
| Explosion Data | |
| Sensitivity to Mechanical Impact: | Not sensitive |
| Sensitivity to Static Discharge: | Not sensitive |
| Specific Hazard Arising from the Chemical: | Use water spray to cool fire-exposed containers |
| 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: | Avoid contact with skin, eyes, and clothing. Use personal protective equipment. Ensure adequate ventilation. |
| Methods for Containment: | Prevent further leakage or spillage, if safe to do so. |
| Methods for Cleaning Up: | 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

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

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

| | |
|---|---|
| Appearance: | Clear and colorless solution |
| 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: | No data available |
| Autoignition Temp. °C: | No data available |
| Boiling Point/Range: | No data available |
| Melting Point/Range: | No data available |
| Flammability Limits (Air): | <u>Upper</u> -No data available * <u>Lower</u> -No data 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 |
| Solubility: | No information available |
| Partition Coefficient (n-octanol/water): | No data available |
| Viscosity: | No information available |

10. STABILITY AND REACTIVITY

| | |
|--|---|
| Stability: | Stable under recommended storage conditions |
| Incompatible Products: | Strong oxidizing agents. Acids. Bases. |
| Conditions to Avoid: | Protect from moisture. Protect from light and moisture. |
| Hazardous Decomposition Products: | Carbon oxides. Nitrogen oxides (NO _x). |
| Hazardous Polymerization: | 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

| Chemical Name: | <u>Acrylamide</u> | <u>N,N-Methylenebisacrylamide</u> |
|--|------------------------------------|-----------------------------------|
| 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.

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

CERCLA

| | |
|-------------------------------|-----------------------|
| Chemical Name: | 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:

Carcinogen Status:

Exposure Limits:

Acrylamide - #79-06-1

A3

Mexico: TWA = 0.03mg/m³

Mexico: STEL = 0.06mg/m³

Canada

WHMIS Hazard Class

D1B – Toxic materials

D2A – Very toxic materials

D2B – Toxic materials



Chemical Name:

NPRI:

Acrylamide

X

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; & 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