



# MATERIAL SAFETY DATA SHEET

Company	ELPIS-Biotech. Inc.
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## SECTION 1. CHEMICAL INFORMATION

Product name Acrylamide-Bisacrylamide Stock Solutions 30% (19:1)  
Cat. No. EBA-1004

Prepare from electrophoresis grade acrylamide and bisacrylamide in ultra-pure water. Volume of product package: 500ml.

**Product Use** : Laboratory Reagent. For R&D use only. Not for drug, household or other uses.

### Manufacturer/ Supplier information

Supply company : ELPIS-Biotech. Inc.

Address : 123-12 Jeonglim-dong, Seo-gu, Daejeon, Korea

Information service or emergency call : +82-42-581-8448 (042-581-8448, Korea)

Department in charge : Research Department

## SECTION 2. HAZARDOUS IDENTIFICATION



### Label precautionary statement

Very toxic

Very toxic in contact with skin and if swallowed.

May cause cancer.

Danger of serious damage to health by prolonged exposure.

Wear suitable protective clothing, gloves and eye/face protection

### Emergency overview

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Take off immediately all contaminated clothing

### Accute health effects(Eye, Skin, Ingestion, Inhalation,Chronic)

Very toxic

Very toxic in contact with skin and if swallowed.

May cause cancer.

Danger of serious damage to health by prolonged exposure.

Wear suitable protective clothing, gloves and eye/face protect

### Precautionary guidelines

Wear suitable protective clothing, gloves and eye/face when handling to avoid contact

### SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization : Mixtures

Description : Mixture of the substances listed below.

#### Product's Components in Water:

Reagent	CAS#	Concentration, %
Acrylamide	[79-06-1]	≤ 28.5
N,N' Methylene bisacrylamide	[110-26-9]	≤ 1.5

### SECTION 4. FIRST AID MEASURES

#### General measures

Remove contaminated clothing promptly.

Allow the victim to rest in a well ventilated area, Seek medical attention

#### Emergency first measures (Eyes, Skin, Ingestion, Inhalation...)

In case of skin contact, wash thoroughly

In case of eye contact, rinse immediately 15min by separating eyelids, and seek for medical advice

If inhaled, remove victim to fresh air. If difficult breathing, give oxygen and obtain medical attention. If not breathing, give artificial respiration.

If ingested, do NOT induce vomiting, If conscious and alert, rinse mouth, drink plenty of water, and seek for medical advice.

#### Notes to physicians

Treat symptomatically

### SECTION 5. FIRE FIGHTING MEASURES

#### Extinguishing media

Water Spray          Carbon dioxide, dry chemical powder or appropriate foam.

#### Special firefighting procedures

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

#### Unusual fire and explosions hazards

Emit toxic fumes under fire conditions. Container explosion may occur.

#### Spills and Leaks

Sweep up or vacuum material and place into a suitable disposal container

Prevent contact with skin and eyes.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

#### General information

Wear a proper personal protective equipment to avoid skin and eye exposure:  
wear respirator, rubber boots, chemical resistant gloves. chemical safety goggles

#### Measures for cleaning / collecting

Collect spilled liquid with liquid-binding material or inert absorbent and place it in container for disposal. Wash spill site after material pickup is complete.

### SECTION 7. HANDLING AND STORAGE

#### Handling

Wear a proper personal protective equipment to avoid skin and eye exposure

### Storage

Storage in a cool dry place, keep tightly closed. Store at 4 °C

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION □

### Personal protection (eyes, hands, body, respiratory...)

For normal use, rubber gloves usually sufficient when handled properly. Wear protective clothing (laboratory suit, safety goggles) to prevent skin contact. Wash or discard contaminated clothes if reused.

Safety shower and eye bath.

Compatible chemical-resistant gloves.

Wear a NIOSH/MSHA or European Standard EN 149 approved full-face piece airline respirator in the positive pressure mode with emergency escape provisions

Do not breathe vapor. Avoid contact with eyes, skin and clothing.

Wash thoroughly after handling. Keep tightly closed, store in a cool place.

### Exposure limits

Consult local authorities

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Liquid.
<b>Color</b>	Clear
<b>Odor</b>	Odorless.
<b>Boilin Point</b>	98 - 104 °C
<b>Flash point</b>	> 392 F, > 200°C
<b>Explosive properties</b>	No data available.
<b>Vapor pressure</b>	< 1 MMHG @ 20°C

## SECTION 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable.
<b>Hazardous polymerization</b>	May occur. Avoid temperatures above 50°C.
<b>Materials to Avoid</b>	Strong oxidizing agents and high temperatures. Light sensitive.
<b>Hazardous Decomposition Products:</b>	Thermal decomposition may produce CO <sub>2</sub> and CO and nitrogen oxides.
<b>Protect from heat</b>	

## SECTION 11. TOXICOLOGICAL INFORMATION

<b>Acute effects</b>	Harmful by inhalation, ingestion, or skin absorption. May cause eye and skin irritation. May cause nervous system disturbances.
<b>Chronic effects (carcinogenicity, teratogenicity, reproductive toxicity, mutagenesis)</b>	Carcinogen May alter genetic material. overexposure may cause reproductive disorders based on tests with laboratory animals. To the best of our knowledge, the chemical, physical, and Toxicological properties have not been thoroughly investigated

## SECTION 12. ECOLOGICAL INFORMATION

Data not yet available

### **SECTION 13. DISPOSAL CONSIDERATIONS**

Contact a licensed professional waste disposal service to dispose of this material.

Observe all federal, state and local environmental regulations

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

### **SECTION 14. TRANSPORT INFORMATION**

Contact ELPIS Biotech, Inc. Company for Transportation Information.

### **SECTION 15. REGULATORY INFORMATION**

classified as a poison, IATA I.D. No. UN 2810 - class 6.1 - packing group II

European labeling in accordance with EC directives

Very toxic

Risk phrases: R26/27/28 Very toxic by inhalation, in contact with skin and if swallowed

R45 may cause cancer

R40 Possible risk of irreversible effects

Safety phrases: S36/37/39 Wear suitable protective clothing, gloves and eye/face protection

### **SECTION 16. OTHER INFORMATION**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide.

ELPIS Biotech Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

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