

# SAFETY DATA SHEET

## SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product Identifier

**Product Name:** Bis-AcrylaGel

**Product Number:** EC-820

### 1.2 Relevant Identified Uses of the Substance/Mixture and Uses Advised Against

Investigational research by professional users

### 1.3 Details of the Supplier of the Safety Data Sheet

#### Manufacturer

National Diagnostics  
305 Patton Drive  
Atlanta, GA 30036  
(404) 699-2121  
(800) 526-3867  
info@nationaldiagnostics.com

#### Agent

AGTC Bioproducts  
Unit 4 Fleet Business Park  
Itlings Lane, Hessle  
East Riding of Yorkshire HU139LX  
44(0) 1482 646020  
office@agtcbioproducts.com

### 1.4 Emergency Telephone Number

#### Chemtrec

1-800 424-9300 (U.S. & Canada)  
01-703-527-3887 (outside U.S. & Canada)

## SECTION 2 - HAZARDS IDENTIFICATION

### 2.1 Classification of the Substance or Mixture

**Classification according to Regulation (EC) No. 1272/2008 [EU-GHS/CLP]**

H303 - Acute Toxicity-Oral (Category 5)

H333 - Acute Toxicity-Inhalation (Category 5)

### 2.2 Label Elements

#### GHS LABEL ELEMENTS AND CLASSIFICATION

##### GHS Label Elements



#### WARNING

H303 - May be harmful if swallowed.

H333 - May be harmful if inhaled.

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

### 2.3 Other Hazards

None found.

## SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixture

#### Chemical Names/Description

Aqueous solution of N, N' - Methylenebisacrylamide

#### Component List

Component	% Comp.	CAS #	EC #	1278/2008 Classification
BIS-ACRYLAMIDE	2.0	110-26-9	203-750-9	H302, H332

## SECTION 4 - FIRST AID MEASURES

### 4.1 Description of First Aid Measures

#### Inhalation

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

#### Ingestion

Give large amounts of water to drink. Never give anything by mouth to an unconscious person. Get medical attention.

#### **Skin**

Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

#### **Eyes**

Immediately flush eyes with plenty of water for at least fifteen minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

### **4.2 Most Important Symptoms and Effects, Both Acute and Delayed**

#### **Inhalation**

Drowsiness, tingling sensations, fatigue, weakness, stumbling, slurred speech, and shaking.

#### **Ingestion**

Drowsiness, tingling sensations, fatigue, weakness, stumbling, slurred speech, and shaking.

#### **Skin**

Pain and redness. Symptoms of absorption of solutions through the skin may parallel ingestion.

#### **Eyes**

Pain and redness.

### **4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed**

Unknown/not applicable

## **SECTION 5 - FIRE FIGHTING MEASURES**

### **5.1 Extinguishing media**

Use media appropriate to the primary cause of fire.

### **5.2 Special Hazards Arising from the Substance/Mixture**

#### **Hazardous Combustion Products**

Thermal decomposition products may include toxic oxides of nitrogen and carbon.

#### **Hazardous Decomposition Products**

Burning may produce carbon monoxide, carbon dioxide, nitrogen oxides.

#### **Hazardous Polymeriation**

Will not occur under normal conditions of use (See Sections 10.4 & 10.5).

### **5.3 Advice for Firefighters**

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

### **5.4 Further Information**

No data available.

## **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

### **6.1 Personal Precautions**

Wear appropriate protective equipment as specified in Section 8.

### **6.2 Environmental Precautions**

Prevent discharge into the environment. Dike spills and stop leakage where practical. Do not allow material to enter drains.

### **6.3 Methods and Materials for Containment and Cleaning Up**

Contain and clean up spill immediately, prevent from entering floor drains. Contain liquids using absorbents. Shovel all spill materials into disposal drum. Scrub spill area with detergent, flush with copious amounts of water.

### **6.4 References to Other Sections**

For disposal information, see Section 13. For Protective clothing and equipment, see Section 8.

## **SECTION 7 - HANDLING AND STORAGE**

### **7.1 Precautions for Safe Handling**

Avoid contact and inhalation. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling.

### **7.2 Conditions for Safe Storage (including any incompatibles)**

Keep in a tightly closed container, stored in a cooled, dry, ventilated area.

### Incompatibles

Strong bases, strong acids, and oxidizing agents.

## 7.3 Specific End Uses

Investigational research by professional users

## SECTION 8 - EXPOSURE CONTROLS/PERSONAL PRECAUTIONS

### 8.1 Control Parameters

ACGIH Threshold Limit Value (TLV): 5 mg/m<sup>3</sup> (TWA) (skin) for solid

OSHA Permissible Exposure Limit (PEL): None established

### 8.2 Exposure Controls

#### Engineering Controls

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source.

#### Respiratory Protection

For conditions of use where exposure to the dust or mist is apparent, a full-face dust/mist respirator may be worn. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator.

#### Eye Protection

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

#### Skin Protection

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on Basic Physical & Chemical Properties

a. Appearance	Clear, colorless solution	b. Odor	None
c. Odor Threshold	N.A.	d. pH	Neutral
e. Melting/Freezing Point (°C)	0	f. Boiling point (°C)	100
g. Flash Point (°C)	N.A.	h. Evaporation Rate	1.0 (H <sub>2</sub> O = 1)
i. Flammability	N.A.	j. Upper/Lower Flammability or Explosive Limits	N.A.
k. Vapor Pressure	N.A.	l. Vapor Density (Air = 1)	1.00
m. Relative Density	1.02	n. Water Solubility	Soluble
o. Partition Coefficient n-octanol/water	Mixture	p. Autoignition Temperature (°C)	N.A.
q. Decomposition Temperature (°C)	N.A.	r. Viscosity	No data available.
s. Explosive Properties	N.A.	t. Oxidizing Properties	Not an oxidizer

## SECTION 10 - STABILITY AND REACTIVITY

### 10.1 Reactivity

reacts with vinyl polymerization initiators

### 10.2 Chemical Stability

Stable under ordinary conditions of use and storage.

### 10.3 Possibility of Hazardous Reactions

Will not occur under normal conditions of use (See Sections 10.4 & 10.5).

### 10.4 Conditions to Avoid

Incompatibles.

### 10.5 Incompatible Materials

Strong bases, strong acids, and oxidizing agents.

### 10.6 Hazardous Decomposition Products

Burning may produce carbon monoxide, carbon dioxide, nitrogen oxides.

## SECTION 11 - TOXICOLOGICAL INFORMATION

## Product LD50 Values

### Oral Rat LD50 (mg/kg)

19500

### Dermal Rabbit LD50 (mg/kg)

no data

## Component Cancer List Status

	NTP Carcinogen		IARC Category
	Known	Anticipated	
BIS-ACRYLAMIDE	No	No	None

## Potential Health Effects

### Inhalation

Inhalation of mist may cause drowsiness, tingling sensations, fatigue, weakness, stumbling, slurred speech, and shaking. Inhalation studies with this compound have produced acute pulmonary edema in animals. Effects in humans not known.

### Ingestion

Toxic! Unsaturated amides cause systemic poisoning.

### Skin

Unsaturated amides cause irritation and redness. Solutions may be absorbed through the skin causing systemic poisoning.

### Eyes

Contact with the eyes causes irritation.

## Carcinogenicity

Not listed as a known or anticipated carcinogen by NTP or IARC.

## Mutagenicity

No information available.

## Reproductive Toxicity

No information available.

## Teratogenic Effects

No information available.

## Routes of Entry

Ingestion, inhalation, skin contact.

## Target Organ Statement

Persons with pre-existing skin disorders, eye problems, or central or peripheral nervous system conditions may be more susceptible to the effects of this substance.

## SECTION 12 - ECOLOGICAL INFORMATION

### 12.1 Toxicity

	Vertebrates	Invertebrates	Algae	Microorganisms
Aquatic Toxicity (ppm unless otherwise noted)	No data	No data	No data	No data
	Birds	Arthropods	Plants	Microorganisms
Terrestrial Environment Toxicity (ppm unless otherwise noted)	No data	No data	No data	No data

### 12.2 Persistence and Degradability

No data

### 12.3 Bioaccumulative Potential

No data

### 12.4 Mobility in Soil

No data

### 12.5 Results of PBT and vPvB Assessment

No data

## 12.6 Other Adverse Effects

None

## SECTION 13 - DISPOSAL CONSIDERATIONS

### 13.1 Waste Treatment Methods

Offer surplus or non-recyclable product to licensed disposal company. Disposal is subject to user compliance with applicable law and product characteristics at time of disposal. Dispose of packaging as product.

## SECTION 14 - TRANSPORT INFORMATION

	ADR/RID	IATA	IMO	DOT
14.1 UN Number	N.A.	N.A.	N.A.	N.A.
14.2 Shipping Name	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.3 Hazard Class	N.A.	N.A.	N.A.	N.A.
14.4 Packing Group	N.A.	N.A.	N.A.	N.A.
14.5 Environmental Hazards	N.A.	N.A.	N.A.	N.A.
14.6 Special Precautions	N.A.	N.A.	N.A.	N.A.

## SECTION 15 - REGULATORY INFORMATION

### 15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance/Mixture

#### United States

##### TSCA Regulatory Statement

All intentional ingredients are listed on the TSCA Inventory.

##### SARA 311/312 Hazard Categories

Component	Fire	Pressure	Reactivity	Acute	Chronic
BIS-ACRYLAMIDE	No	No	No	Yes	Yes

#### Europe

##### EEC Regulatory

All intentional ingredients are listed on the European EINECS Inventory.

## SECTION 16 - OTHER INFORMATION

### Revisional Updates

5/29/2015 - Updated Sections 2.1 and 3.2

7/16/2013 - Released Version 1.0

### NFPA Codes

Health 2 Flammability 0 Reactivity 1

### Dangers

#### BIS-ACRYLAMIDE

H302 - Harmful if swallowed

H332 - Harmful if inhaled

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