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A Geno Technology, Inc. (USA) brand name

# **Safety Data Sheet**

Cat. # 786-837

# Immobilized Protein A/G Resin

Size: 15ml





Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 06/03/2013 Revision date: 05/11/2017 Version: 7.1

SECTION 1: Identification				
1.1. Identification				
Product form	: Mixture			
Product name	: Immobilized Protein A/G	Resin		
Product code	: 0491			
I.2. Recommended use and restric	tions on use			
No additional information available				
1.3. Supplier				
Geno Technology, Inc./ G-Biosciences 9800 Page Avenue Saint Louis, 63132-1429 - United States T 800-628-7730 - F 314-991-1504 technical@GBiosciences.com - www.GBios	sciences.com			
1.4. Emergency telephone number				
Emergency number	: Chemtrec 1-800-424-930	0 (USA/Canada), +1-703-	527-3887 (I	ntl)
SECTION 2: Hazard(s) identifica	tion			
2.1. Classification of the substance	e or mixture			
GHS US classification				
Flammable liquids Category 4 H227 Co	mbustible liquid			
Full text of H statements : see section 16				
2.2. GHS Label elements, including	precautionary statements			
GHS US labeling				
Signal word (GHS US)	: Warning			
Hazard statements (GHS US) Precautionary statements (GHS US)	: H227 - Combustible liquid			s and other ignition sources. No
	smoking. P280 - Wear protective g P370+P378 - In case of fi P403+P235 - Store in a w P501 - Dispose of conten	loves/protective clothing/e ire: Use media other than vell-ventilated place. Keep ts/container to hazardous gional, national and/or inte	ye protectio water to ext cool. or special v	n/face protection. inguish. vaste collection point, in
2.3. Other hazards which do not re	sult in classification	-		-
No additional information available				
2.4. Unknown acute toxicity (GHS L	JS)			
Not applicable				
SECTION 3: Composition/Inform	ation on ingrediente			
3.1. Substances				
Not applicable				
3.2. Mixtures			1	
Name	Common Name (Synonyms)	Product identifier	%	GHS US classification
ethanol	ethanol (ethyl alcohol) / ethanol, anhydrous, undenatured / ethyl	(CAS-No.) 64-17-5	10 - 50	Flam. Liq. 2, H225
Full text of hazard classes and H-statemen	alcohol	1		
SECTION 4: First-aid measures				
I.1. Description of first aid measured	es			
First-aid measures after inhalation	: Remove person to fresh a	air and keen comfortable f	or breathing	
First-aid measures after skin contact	: Wash skin with plenty of		s. sreating	j.
First-aid measures after eye contact	: Rinse eyes with water as			
-Inst-ald measures aller eve contact				

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<b>4.2. Most important symptoms and effects</b> No additional information available	(acute and delayed)
4.3. Immediate medical attention and spec	ial treatment, if necessary
Treat symptomatically.	
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishin	g media
Suitable extinguishing media :	Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Specific hazards arising from the cher	nical
Fire hazard :	Combustible liquid.
5.3. Special protective equipment and pred	cautions for fire-fighters
Protection during firefighting :	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release measu	res
6.1. Personal precautions, protective equip	oment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures :	Ventilate spillage area. No open flames, no sparks, and no smoking.
6.1.2. For emergency responders	
Protective equipment :	Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for containment	and cleaning up
	Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information :	Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling :	Ensure good ventilation of the work station. Wear personal protective equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Hygiene measures :	Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, including	any incompatibilities
Storage conditions :	Store in a well-ventilated place. Keep cool.
Storage temperature :	4 °C
SECTION 8: Exposure controls/persor	al protection
8.1. Control parameters	
Immobilized Protein A/G Resin	
No additional information available	
ethanol (64-17-5)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH STEL (ppm)	1000 ppm
8.2. Appropriate engineering controls	
	Ensure good ventilation of the work station.
Environmental exposure controls :	Avoid release to the environment.
8.3. Individual protection measures/Person	nal protective equipment

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#### Hand protection:

Protective gloves

#### Eye protection:

Safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### **Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical	properties
9.1. Information on basic physical and c	hemical properties
Physical state	: Liquid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 65 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
9.2. Other information	

No additional information available

### SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

#### 10.5. Incompatible materials

No additional information available

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ECTION 11: Toxicological informati	on
I1.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
ethanol (64-17-5)	40740 m due hadronicht (Det OFOD 404 Ande Ord Tarisite Forening delegter)
LD50 oral rat	10740 mg/kg body weight (Rat; OECD 401: Acute Oral Toxicity; Experimental value)
LD50 dermal rabbit	> 16000 mg/kg (Rabbit; Literature study)
LC50 inhalation rat (mg/l)	> 20 mg/l (4 h, Rat, Inhalation)
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
ethanol (64-17-5)	
IARC group	1 - Carcinogenic to humans
Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated	: Not classified
exposure	
Aspiration hazard	: Not classified
/iscosity, kinematic	: No data available
SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
ethanol (64-17-5)	
LC50 fish 1	14200 mg/l (US EPA, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)
EC50 Daphnia 1	9300 mg/l (48 h, Daphnia magna, Pure substance)
12.2. Persistence and degradability	
ethanol (64-17-5)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. No (test)data on mobility of the substance available.
Biochemical oxygen demand (BOD)	$0.8 - 0.967 \text{ g } \text{O}_2/\text{g substance}$
Chemical oxygen demand (COD)	1.7 g $O_2/g$ substance
ThOD	2.1 g $O_2/g$ substance
BOD (% of ThOD)	0.43
12.3. Bioaccumulative potential	
ethanol (64-17-5)	
	1 (Other, 72 h, Cyprinus carpio, Static system, Fresh water, Read-across)
BCF fish 1	
	-0.35 (Experimental value; OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method; 24 °C)

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ethanol (64-17-5)	
Surface tension	0.0245 N/m (20 °C)
Ecology - soil	Highly mobile in soil.

### 12.5. Other adverse effects

No additional information available

SECTION 13: Disposal consideration	ations
13.1. Disposal methods	
Waste treatment methods	: Waste treatment methods.
<b>SECTION 14: Transport informat</b>	ion
Department of Transportation (DOT)	
In accordance with DOT	
Not regulated	
Transportation of Dangerous Goods	
Transport by sea	
Not regulated	
Air transport	
Not regulated	
SECTION 15: Regulatory information	ation
15.1. US Federal regulations	
ethanol (64-17-5)	
Listed on the United States TSCA (Toxic	Substances Control Act) inventory
15.2. International regulations	
CANADA	
ethanol (64-17-5)	
Listed on the Canadian DSL (Domestic S	ubstances List)
EU-Regulations	
National regulations	
ethanol (64-17-5)	
Listed on IARC (International Agency for	Research on Cancer)
15.3. US State regulations	
SECTION 16: Other information	
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#### Full text of H-phrases:

H225	Highly flammable liquid and vapour
H227	Combustible liquid

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#### SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.