

# Material Safety Data Sheet

Version GHS 5.1  
Revision date : 01/5/2018

## 1 . PRODUCT & COMPANY IDENTIFICATION

**Product Name** : Puredown Protein G-Agarose  
**Product Cat No** : P9202  
**CAS No** : None  
**Manufacturer/Supplier** : GenDEPOT LLC  
PO Box 454  
Barker, Tx 77413  
Emergency Phone : 866.417.0078  
Fax : 281-579-6876

## 2 . HAZARD IDENTIFICATION

### Emergency Overview

#### GHS Classification

Flammable liquid (Category 3), H226

#### GHS Label elements, including precautionary statements

Pictogram



Signal word WARNING

Hazard statement(s) : Flammable liquid and vapor

#### Precautionary statement(s)

##### Prevention

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P233 - Keep container tightly closed  
P243 - Take action to prevent static discharges  
P240 - Ground/bond container and receiving equipment

##### Response

P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction  
P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

#### Potential Health Effects

Inhalation : May be harmful if inhaled, Causes respiratory tract irritation  
Skin : May be harmful if absorbed through skin. Cause skin irritation  
Eyes : Causes eye irritation  
Ingestion : May be harmful if swallowed.

## 3 . COMPOSITION/INFORMATION ON INGREDIENT

Component	Classification	Concentration
Ethyl alcohol		
CAS No	64-17-5	20– 25%
EC No	200-579-6	

## 4 . FIRST AID MEASURES

**General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**Inhalation:** If breathed in, move person into fresh air.  
If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact:** Wash off with soap and plenty of water.  
Consult a physician.

**In case of eye contact :** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed :** Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

## 5 . FIREFIGHTING MEASURES

**Suitable extinguishing media:** For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

**Special protective equipment for firefighters:** Wear self contained breathing apparatus for fire fighting if necessary.

**Hazardous combustion products:** Carbon oxides, nitrogen oxides (NOx)

**Further information:** Use water spray to cool unopened containers.

## 6 . ACCIDENTAL RELEASE MEASURES

**Personal precaution:** Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

**Environmental precaution:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**Methods and materials for contaminant and cleaning up:** Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

## 7 . HANDLING AND STORAGE

**Precaution for safe handling:** Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

**Condition for safe storage:** Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: 2-8 °C

## 8 . EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Ethyl alcohol  
 OSHA PEL , 1000 ppm  
 OSHA PEL (Ceiling) , None  
 ACGIH OEL (TWA), None  
 ACGIH OEL (STEL), 1000 ppm

### Personal protective equipment: .

**Respiratory protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Eye protection:** Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin and body protection:** Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Complete suit protecting against chemicals.

## 9 . PHYSICAL AND CHEMICAL PROPERTIES

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### Appearance:

Form	liquid
Color	Colorless

### Safety data:

pH	7.5– 8.5
Melting point	no data available
Freezing point	no data available
Boiling point	no data available
Flash point	35-37 °C
Ignition temperature	no data available
Auto-ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapor pressure	no data available
Density	no data available
Water solubility	Easily soluble in water
Partition coefficient: n-octanol/water	no data available
Relative vapor density	no date available
Odor	odorless
Odor threshold	no data available
Evaporation rate	no data available

## 10 . STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

no data available.

### Condition to avoid

no data available..

### Materials to avoid

Strong oxidizing agents

### Hazardous decomposition products

no data available

## 11 . TOXICOLOGICAL INFORMATON

### Acute Toxicity

Ethyl alcohol  
 LD50(oral, rat/mouse) , 7060mg/kg (rat)  
 LC50(inhalation, rat/mouse) 124.7mg/L(rat)

### Skin corrosion/irritation

no data available

### Serious eye damage/eye irritation

no data available

### Respiratory or skin sensitization

no data available

### Mutagenicity (Germ cell mutagenicity)

no data available

### Carcinogenicity

no data available

### Reproductive toxicity

no data available

### Teratogenicity

no data available

### Specific target organ toxicity— single exposure (GHS)

no data available

### Specific target organ toxicity— repeated exposure (GHS)

no data available

### Aspiration hazard

no data available

### Potential health effects

**Inhalation** May be harmful if inhaled. Causes respiratory tract irritation.  
**Ingestion** May be harmful if swallowed.  
**Skin** May be harmful if absorbed through skin. Causes skin irritation.  
**Eyes** Causes eye irritation

### Synergistic effects

no data available

### Additional information

RTECS : not available

Kidney - Irregularities - Based on Human Evidence

Kidney - Irregularities - Based on Human Evidence

## 12 . ECOLOGICAL INFORMATION

### Toxicity

Ethyl alcohol ,  
 Daphnia magna EC50=10800 mg/L (24 h) Daphnia magna EC50=2 mg/L (48 h)  
 Daphnia magna LC509268 - 14221 mg/L (48 h)  
 Log Pow -0.32

### Persistence and degradability

no data available

### Bioaccumulative potential

no data available

### Mobility in soil

no data available

### PBT and vPvB assessment

no data available

### Other adverse effect

no data available

## 13 . DISPOSAL CONSIDERATIONS

### Product

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

### Contaminated packaging

Dispose of as unused product.

## 14 . TRANSPORT INFORMATION

### DOT(US)

NA-Number, 1993 Class : None Packing group :III  
 Proper shipping name : Combustible liquid, n.o.s (Ethanol)

### IMDG

Not dangerous goods

### IATA

No dangerous good in sense of these transport regulation

## 15 . REGULATORY INFORMATION

### United States

SARA 302 extremely hazardous substances : No products were found  
 SARA 313 Components: No products were found  
 SARA 311/312 Hazard Identification :  
 Fire Hazard, Chronic Health Hazard

### States Regulation

Massachusetts : The following components are listed -  
 Ethanol CAS NO 64-17-5  
 New York : The following components are listed - None  
 New Jersey : The following components are listed -  
 Ethanol CAS NO 64-17-5  
 Agarose CAS NO 9012-36-6  
 Pennsylvania : The following components are listed -  
 Ethanol CAS NO 64-17-5  
 Agarose CAS NO 9012-36-6

California Prop. 65 Components :  
 This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### International Regulation

**Australia inventory (AICS):** Not determined.  
**China inventory (IECSC):** All components are listed or exempted.  
**Japan inventory:** Not determined.  
**Korea inventory:** All components are listed or exempted.  
**Malaysia Inventory (EHS Register):** Not determined.  
**New Zealand Inventory of Chemicals (NZIoC):** Not determined.  
**Philippines inventory (PICCS):** Not determined.  
**Taiwan inventory (CSNN):** Not determined.

## 16 . OTHER INFORMATION

### HIMS Rating:

Health hazard : 0  
 Chronic Health Hazard : \*  
 Flammability : 3  
 Physical hazards: 0

### NFPA Rating:

Health Hazard: 0  
 Fire: 0  
 Reactivity Hazard: 0

This compound is sold only for research use by personnel familiar chemicals and who are well trained in good laboratory habits, such as avoiding spills, keeping hands clean at all times and no rubbing eyes with working in the laboratory.

This solution is sold only in microliter quantities for use in life sciences research. No other use is intended. And any other use may involve substantive hazards.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish or legally valid contractual relationship. GenDEPOT LLC, shall not be held liable for any damage resulting from handling of or from with above product. The burden of safe use of this material rests entirely with the user.

Since the conditions of handling, storage and disposal of this material are beyond our control, it is the responsibility of the user to determine whether the material is fit for a particular purpose and/or suitable for the user's method of use or application, and to determine safe conditions for use of the material, and to assume full responsibility for loss, injury and expense arising out of or in connection with the use of material. NO REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, REGARDING THE MATERIAL DESCRIBED HEREIN SHALL BE CREATED BY OR INFERRED FROM ANY STATEMENT OR OMISSION FROM THIS MSDS.

Various government agencies and local authorities may have general or specific regulations applicable to the material which may not be covered in this MSDS. It is sole responsibility of the user to examine and confirm for its full compliance with any such regulations.

When the revision of this MSDS is received, please dispose of the old one.

Department issuing MSDS:  
 GenDEPOT LLC  
 Safety Department