

# DNP-HSA (Human Serum Albumin)

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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GENOMIC ANALYSIS BY LGC

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : DNP-HSA (Human Serum Albumin)  
Product code : D-5059

#### 1.2. Recommended use and restrictions on use

See Section 15.1

#### 1.3. Supplier

Biosearch Technologies, Inc  
2199 South McDowell Boulevard  
Petaluma, CA 94954-6904  
USA

#### 1.4. Emergency telephone number

Emergency number : 1-888-575-9695 (Monday-Friday, 8:00AM-5:00PM)

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Not classified

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labelling

No labelling applicable

#### 2.3. Other hazards which do not result in classification

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

| Name  | Product identifier | % |
|---|--------------------|---|
| Contains no hazardous ingredients at levels requiring disclosure by the OSHA Hazard Communication standard (29 CFR 1910.1200) |                    |   |

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

First-aid measures general : If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.

First-aid measures after inhalation : IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

First-aid measures after skin contact : IF ON SKIN (or clothing), remove affected clothing and wash all exposed skin with water for at least 15 minutes.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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First-aid measures after ingestion : IF SWALLOWED: rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. Get medical attention if you feel unwell.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : May cause respiratory irritation.  
Symptoms/effects after skin contact : May cause skin irritation.  
Symptoms/effects after eye contact : Direct contact with eyes is likely to be irritating.  
Symptoms/effects after ingestion : May cause gastrointestinal irritation.

### 4.3. Immediate medical attention and special treatment, if necessary

No additional information available

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Carbon dioxide (CO<sub>2</sub>). Dry chemical powder. Foam. Water spray.  
Unsuitable extinguishing media : Do not use a water jet since it may cause the fire to spread.

### 5.2. Specific hazards arising from the chemical

Fire hazard : No fire hazard.  
Explosion hazard : Product is not explosive.

### 5.3. Special protective equipment and precautions for fire-fighters

No additional information available

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate area. Ventilate area. Keep upwind. Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection.

#### 6.1.1. For non-emergency personnel

Protective equipment : Wear Protective equipment as described in Section 8.  
Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air respirator, in case of emergency.

### 6.2. Environmental precautions

Avoid release to the environment. Avoid release to waterway, drain, basement, closed place.

### 6.3. Methods and material for containment and cleaning up

For containment : Sweep or shovel spills into appropriate container for disposal. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid dust formation.  
Methods for cleaning up : Clean up spills immediately and dispose of waste safely. Avoid dust formation. Dispose of in accordance with relevant local regulations.

### 6.4. Reference to other sections

See Sections 8 and 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Ground all transfer equipment against electrostatic charge. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. No open flames. No smoking. Avoid dust formation.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in original container. Keep container tightly closed in a cool, dry, and well-ventilated place. Keep away from incompatible products. Keep away from ignition sources.

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Not applicable

#### 8.2. Appropriate engineering controls

Appropriate engineering controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed. Ensure adequate ventilation, especially in confined areas. Take off immediately all contaminated clothing and wash it before reuse.

#### 8.3. Individual protection measures/Personal protective equipment

Personal protective equipment symbol(s):



**Personal protective equipment:**

Gloves. Protective clothing. Protective goggles. [In case of inadequate ventilation] wear respiratory protection.

##### Hand protection:

Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Suitable gloves should be recommended by the glove supplier.

##### Skin and body protection:

Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.

##### Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection. Where vapor, mist, or dust exceed PELs or other applicable OELs, use NIOSH-approved dust respiratory protective equipment.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

|   |                  |
|---|------------------|
| Physical state                                  | : Solid          |
| Appearance                                      | : Not applicable |
| Color   | : Not applicable |
| Odor  | : Not applicable |
| Odor threshold                                  | : Not applicable |
| pH  | : Not applicable |
| Melting point                                   | : Not applicable |
| Freezing point                                  | : Not applicable |
| Boiling point                                   | : Not applicable |
| Flash point                                     | : Not applicable |
| Relative evaporation rate (butylacetate=1)      | : Not applicable |
| Flammability (solid, gas)                       | : Not applicable |
| Vapor pressure                                  | : Not applicable |
| Relative vapor density at 20 °C                 | : Not applicable |
| Relative density                                | : Not applicable |
| Solubility                                      | : Not applicable |
| Partition coefficient n-octanol/water (Log Pow) | : Not applicable |

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|                           |                  |
|---------------------------|------------------|
| Auto-ignition temperature | : Not applicable |
| Decomposition temperature | : Not applicable |
| Viscosity, kinematic      | : Not applicable |
| Viscosity, dynamic        | : Not applicable |
| Explosive limits          | : Not applicable |
| Explosive properties      | : Not applicable |
| Oxidizing properties      | : Not applicable |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

No additional information available

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

No additional information available

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

No additional information available

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                                     |  |
|-------------------------------------|--|
| Acute toxicity (oral)               | : Not classified                                       |
| Acute toxicity (dermal)             | : Not classified                                       |
| Acute toxicity (inhalation)         | : Not classified                                       |
| Skin corrosion/irritation           | : Not classified                                       |
| Serious eye damage/irritation       | : Not classified                                       |
| Respiratory or skin sensitisation   | : Not classified                                       |
| Germ cell mutagenicity              | : Not classified                                       |
| Carcinogenicity                     | : Not classified                                       |
| Reproductive toxicity               | : Not classified                                       |
| STOT-single exposure                | : Not classified                                       |
| STOT-repeated exposure              | : Not classified                                       |
| Aspiration hazard                   | : Not classified                                       |
| Viscosity, kinematic                | : No data available                                    |
| Symptoms/effects after inhalation   | : May cause respiratory irritation.                    |
| Symptoms/effects after skin contact | : May cause skin irritation.                           |
| Symptoms/effects after eye contact  | : Direct contact with eyes is likely to be irritating. |
| Symptoms/effects after ingestion    | : May cause gastrointestinal irritation.               |

## SECTION 12: Ecological information

### 12.1. Toxicity

No additional information available

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### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

- Waste treatment methods : Do not discharge to public wastewater systems without permit of pollution control authorities. No discharge to surface waters is allowed without a permit.
- Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

Not regulated for transport

### Transport by sea (IMDG)

Not regulated for transport

### Air transport (IATA)

Not regulated for transport

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### DNP-HSA (Human Serum Albumin)

LGC claims research and development (R&D) exemption status under the Toxic Substances Control Act (TSCA) for this product. It may contain ingredients that are not on the TSCA inventory and only be used exclusively for research and development activities in accordance with the R&D exemption requirements under TSCA found at 40 CFR 720.36. It is the end-user's responsibility to understand and follow these requirements.

### 15.2. International regulations

No additional information available

### 15.3. US State regulations

This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

## SECTION 16: Other information

Other information : Author: AK.

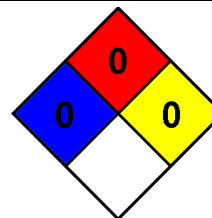
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|                    |   |
|--------------------|---|
| NFPA health hazard | : 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.                                |
| NFPA fire hazard   | : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand. |
| NFPA reactivity    | : 0 - Material that in themselves are normally stable, even under fire conditions.  |
| HMIS Hazard Rating |   |
| Health             | : 0   |
| Flammability       | : 0   |
| Physical           | : 0   |



*This information is disclosed to the best of LGC's knowledge. Disposal should be in accordance with applicable regional, national and local laws and regulations.*