SECTION 1: Identification of the substance/mixture and of the company/undertaking

<table>
<thead>
<tr>
<th><strong>Product identifier</strong></th>
<th><strong>Mixture</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Trade name</strong></td>
<td>BARCROFT™ AL HYD DRIED GEL (ALL GRADES)</td>
</tr>
</tbody>
</table>

**Relevant identified uses of the substance or mixture and uses advised against**

| **Use of the substance/mixture** | Pharmaceutical ingredient. |

**Details of the supplier of the safety data sheet**

SPI Pharma Inc.  
Rockwood Office Park  
503 Carr Road  
Wilmington, Delaware 19809  
(302) 360-7200

**Emergency telephone number**

| **Emergency number** | Chemtrec (800) 424-9300; Chemtrec (Outside USA) +1 703-527-3887 (24 hours; 7 days/week) |

SECTION 2: Hazards identification

**Classification of the substance or mixture**

<table>
<thead>
<tr>
<th><strong>GHS-US classification</strong></th>
<th>Not classified</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Label elements</strong></td>
<td>No applicable</td>
</tr>
</tbody>
</table>

**GHS-US labelling**

No labelling applicable

<table>
<thead>
<tr>
<th><strong>Other hazards</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>No additional information available</td>
</tr>
<tr>
<td><strong>Unknown acute toxicity (GHS-US)</strong></td>
</tr>
</tbody>
</table>

No data available

SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th><strong>Name</strong></th>
<th><strong>Product identifier</strong></th>
<th><strong>%</strong></th>
<th><strong>GHS-US classification</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminium Hydroxide</td>
<td>(CAS No.) 21645-51-2</td>
<td>&lt;= 100</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

This mixture does not contain any substances to be mentioned according to the criteria of Appendix D to Regulations 29 CFR 1910.1200.

SECTION 4: First aid measures

**Description of first aid measures**

**First-aid measures general**

Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

<table>
<thead>
<tr>
<th><strong>First-aid measures after inhalation</strong></th>
<th>Assure fresh air breathing. Allow the victim to rest. Get medical attention.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First-aid measures after skin contact</strong></td>
<td>Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash clothing before re-using. Obtain medical attention if irritation persists.</td>
</tr>
<tr>
<td><strong>First-aid measures after eye contact</strong></td>
<td>Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.</td>
</tr>
<tr>
<td><strong>First-aid measures after ingestion</strong></td>
<td>Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.</td>
</tr>
</tbody>
</table>

**Most important symptoms and effects, both acute and delayed**

<table>
<thead>
<tr>
<th><strong>Symptoms/injuries</strong></th>
<th>Not expected to present a significant hazard under anticipated conditions of normal use.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Symptoms/injuries after inhalation</strong></td>
<td>Acute exposure may cause respiratory irritation. Chronic exposure to dust may result in delayed lung injury.</td>
</tr>
<tr>
<td><strong>Symptoms/injuries after skin contact</strong></td>
<td>May cause mechanical irritation.</td>
</tr>
<tr>
<td><strong>Symptoms/injuries after eye contact</strong></td>
<td>May cause mechanical irritation.</td>
</tr>
<tr>
<td><strong>Symptoms/injuries after ingestion</strong></td>
<td>May cause irritation to the digestive tract.</td>
</tr>
</tbody>
</table>

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.
SECTION 5: Firefighting measures

Extinguishing media


Unsuitable extinguishing media: Do not use a heavy water stream.

Special hazards arising from the substance or mixture

Fire hazard: None known.

Explosion hazard: None known.

Reactivity: Stable under normal conditions.

Advice for firefighters

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protective equipment for firefighters: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

General measures: If spilled, may cause the floor to be slippery.

For non-emergency personnel

Emergency procedures: Evacuate unnecessary personnel.

For emergency responders

Protective equipment: Equip cleanup crew with proper protection.

Emergency procedures: Ventilate area.

Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

Methods and material for containment and cleaning up

Methods for cleaning up: On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials. Flush residue with large amounts of water. Dispose of contents/container to comply with applicable local, national and international regulations.

Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

Precautions for safe handling

Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

Conditions for safe storage, including any incompatibilities

Storage conditions: Keep only in the original container in a cool well ventilated place. Keep container closed when not in use.


Incompatible materials: Sources of ignition. Direct sunlight.

Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

Control parameters

No additional information available

Exposure controls

Appropriate engineering controls: Provide adequate ventilation to minimize dust concentrations. Exposures should be minimized in accordance with good industrial hygiene practices.

Hand protection: Wear protective gloves.
Eye protection: Chemical goggles or safety glasses.
Skin and body protection: Wear suitable protective clothing.
Respiratory protection: Appropriate dust or mist respirator should be used if airborne particles are generated when handling this material. NIOSH mask with filter for organic gases and vapors.

Other information: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

<table>
<thead>
<tr>
<th>Information on basic physical and chemical properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state: Solid</td>
</tr>
<tr>
<td>Appearance: White to off-white free flowing powder.</td>
</tr>
<tr>
<td>Colour: White to off-white</td>
</tr>
<tr>
<td>Odour: Very slight odor</td>
</tr>
<tr>
<td>Odour threshold: No data available</td>
</tr>
<tr>
<td>pH: 5.5-8.0 (dispersed in water)</td>
</tr>
<tr>
<td>Relative evaporation rate (butyl acetate=1): No data available</td>
</tr>
<tr>
<td>Melting point: No data available</td>
</tr>
<tr>
<td>Freezing point: No data available</td>
</tr>
<tr>
<td>Boiling point: Not applicable</td>
</tr>
<tr>
<td>Flash point: No applicable</td>
</tr>
<tr>
<td>Auto-ignition temperature: Unknown</td>
</tr>
<tr>
<td>Decomposition temperature: No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas): No data available</td>
</tr>
<tr>
<td>Vapour pressure: Not applicable</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C: No data available</td>
</tr>
<tr>
<td>Relative density: No data available</td>
</tr>
<tr>
<td>Solubility: Water: Insoluble</td>
</tr>
<tr>
<td>Log Pow: No data available</td>
</tr>
<tr>
<td>Log Kow: No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic: Not applicable</td>
</tr>
<tr>
<td>Viscosity, dynamic: Not applicable</td>
</tr>
<tr>
<td>Explosive properties: No data available</td>
</tr>
<tr>
<td>Oxidising properties: No data available</td>
</tr>
<tr>
<td>Explosive limits: No data available</td>
</tr>
<tr>
<td>Other information: No additional information available</td>
</tr>
</tbody>
</table>

SECTION 10: Stability and reactivity

Reactivity
Stable under normal conditions.

Chemical stability
Stable under normal conditions.

Possibility of hazardous reactions
Hazardous polymerization will not occur.

Conditions to avoid
Direct sunlight. Extremely high or low temperatures.
**Incompatible materials**

**Hazardous decomposition products**
Upon decomposition, aluminum oxide may be formed.

### SECTION 11: Toxicological information

#### Information on toxicological effects

**Acute toxicity**
Not classified

**Aluminum hydroxide (21645-51-2)**

<table>
<thead>
<tr>
<th>Effect</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 inhalation rat (mg/l)</td>
<td>&gt; 5000 mg/kg</td>
</tr>
</tbody>
</table>

**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

**Specific target organ toxicity (single exposure)**
Not classified

**Specific target organ toxicity (repeated exposure)**
Not classified

**Aspiration hazard**
Not classified

**Potential Adverse human health effects and symptoms**
None known.

**Symptoms/injuries after inhalation**
Acute exposure may cause respiratory irritation. Chronic exposure to dust may result in delayed lung injury.

**Symptoms/injuries after skin contact**
May cause mechanical irritation.

**Symptoms/injuries after eye contact**
May cause mechanical irritation.

**Symptoms/injuries after ingestion**
May cause irritation to the digestive tract.

### SECTION 12: Ecological information

#### Toxicity
No additional information available

#### Persistence and degradability

**BARCROFT™ AL HYD DRIED GEL (ALL GRADES)**

<table>
<thead>
<tr>
<th>Effect</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability</td>
<td>Not established.</td>
</tr>
</tbody>
</table>

**Bioaccumulative potential**

**BARCROFT™ AL HYD DRIED GEL (ALL GRADES)**

<table>
<thead>
<tr>
<th>Effect</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bioaccumulative potential</td>
<td>Not established.</td>
</tr>
</tbody>
</table>

#### Mobility in soil
No additional information available

#### Other adverse effects

**Effect on ozone layer**
No additional information available

**Effect on the global warming**
No known ecological damage caused by this product.

**Other information**
Avoid release to the environment.
### SECTION 13: Disposal considerations

**Waste treatment methods**

<table>
<thead>
<tr>
<th>Waste disposal recommendations</th>
<th>Dispose in a safe manner in accordance with local/national regulations.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ecology - waste materials</td>
<td>Avoid release to the environment.</td>
</tr>
</tbody>
</table>

### SECTION 14: Transport information

In accordance with DOT

Not regulated for transport

**Additional information**

<table>
<thead>
<tr>
<th>Other information</th>
<th>No supplementary information available.</th>
</tr>
</thead>
</table>

**ADR**

No additional information available

**Transport by sea**

No additional information available

**Air transport**

No additional information available

### SECTION 15: Regulatory information

**US Federal regulations**

No additional information available

**International regulations**

**CANADA**

No additional information available

**EU-Regulations**

No additional information available

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

No additional information available

**Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]**

No additional information available

**National regulations**

No additional information available

**US State regulations**

No supplementary information available

### SECTION 16: Other information

**Abbreviations and acronyms**


**Date of SDS preparation**

05/01/2015

**Other information**

None.

**NFPA health hazard**

1 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.

**NFPA fire hazard**

0 - Must be preheated before ignition can occur.

**NFPA reactivity**

0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
BARCROFT™ AL HYD DRIED GEL (ALL GRADES)
Safety Data Sheet
according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

HMIS III Rating

<table>
<thead>
<tr>
<th>Category</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>1 Slight Hazard - No significant risk to health</td>
</tr>
<tr>
<td>Flammability</td>
<td>0 Minimal Hazard</td>
</tr>
<tr>
<td>Physical</td>
<td>0 Minimal Hazard</td>
</tr>
<tr>
<td>Personal Protection</td>
<td>Safety glasses with side shields</td>
</tr>
</tbody>
</table>

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.