Aluminum Hydroxide Gels

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

Date of issue: 05/01/2015
Version: 1.0

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

1.1. Product identifier
Product form : Substance
Trade name : BARCROFT™ Aluminum Hydroxide Wet Gel LV (All Grades)
ALUMINIUM HYDROXIDE WET GEL Type: HYPER (All Grades)
Aluminium Hydroxide Wet Gel Type: VISCO (All Grades)

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture : Pharmaceutical ingredient

1.3. Details of the supplier of the safety data sheet
SPI Pharma Inc.
Rockwood Office Park
503 Carr Road
Wilmington, Delaware 19809
(302) 360-7200

1.4. 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

2.1. Classification of the substance or mixture
GHS-US classification
Not classified

2.2. Label elements
GHS-US labelling
No labelling applicable

2.3. Other hazards
No additional information available

2.4. Unknown acute toxicity (GHS-US)
No data available

SECTION 3: Composition/information on ingredients

3.1. Substance
Name : Aluminum Hydroxide Gels

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminium Hydroxide</td>
<td>(CAS No) 21645-51-2</td>
<td>Proprietary</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

3.2. Mixture
Not applicable

SECTION 4: First aid measures

4.1. 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).
First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest. In all cases of doubt, or when symptoms persist, seek medical advice.
First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Seek medical attention if irritation develops.
First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. If a large quantity has been ingested: Obtain emergency medical attention.
## Aluminum Hydroxide Gels
### Safety Data Sheet
according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

### 4.2. Most important symptoms and effects, both acute and delayed

**Symptoms/injuries**
- Not expected to present a significant hazard under anticipated conditions of normal use.

**Symptoms/injuries after inhalation**
- Overexposure to dusts may produce slight irritation of the respiratory system.

**Symptoms/injuries after eye contact**
- May cause slight irritation to eyes.

**Symptoms/injuries after ingestion**
- On ingestion in large quantities: may cause gastrointestinal disturbance.

### 4.3. Indication of any immediate medical attention and special treatment needed

None known.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media**

**Unsuitable extinguishing media**
- Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

**Reactivity**
- Stable.

### 5.3. 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

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

**Emergency procedures**
- Evacuate unnecessary personnel.

#### 6.1.1. For non-emergency personnel

**For containment**
- Contain the discharged material using dust suppressant.

**Methods for cleaning up**
- On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

#### 6.1.2. For emergency responders

**Protective equipment**
- Equip cleanup crew with proper protection.

**Emergency procedures**
- Ventilate area.

#### 6.2. Environmental precautions

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

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

**For containment**
- Store at room temperature. Keep container tightly closed.

**Incompatible products**

**Incompatible materials**
- Sources of ignition. Direct sunlight.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

**Precautions for safe handling**
- Provide adequate ventilation. Avoid contact with eyes. Avoid generation of dust. Use only non-sparking tools. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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

**Storage conditions**
- Store at room temperature. Keep container tightly closed.

**Incompatible products**

**Incompatible materials**
- Sources of ignition. Direct sunlight.

#### 7.3. Specific end use(s)

No additional information available.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available.

#### 8.2. Exposure controls

**Appropriate engineering controls**
- Provide local exhaust or general room ventilation to minimize exposure to dust. Exposures should be minimized in accordance with good industrial hygiene practices.

Hand protection: Wear protective gloves.

Eye protection: Chemical goggles or safety glasses.

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

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

### SECTION 9: Physical and chemical properties

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Solid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Gel</td>
</tr>
<tr>
<td>Color</td>
<td>White</td>
</tr>
<tr>
<td>Odor</td>
<td>No data available</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>6</td>
</tr>
<tr>
<td>Relative evaporation rate (butyl acetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Density</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility</td>
<td>Insoluble in water</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Kow</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>No data available</td>
</tr>
</tbody>
</table>

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity


#### 10.2. Chemical stability

Stable at normal conditions.

#### 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

Keep away from acids.

#### 10.5. Incompatible materials

Acids
10.6. Hazardous decomposition products
Aluminium oxides, carbon oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

<table>
<thead>
<tr>
<th>Acute toxicity</th>
<th>Not classified (Based on available data, the classification criteria are not met)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>&gt; 5000 mg/kg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Skin corrosion/irritation</th>
<th>Not classified (Based on available data, the classification criteria are not met)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious eye damage/irritation</td>
<td>Not classified (Based on available data, the classification criteria are not met)</td>
</tr>
<tr>
<td>Respiratory or skin sensitisation</td>
<td>Not classified (Based on available data, the classification criteria are not met)</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified (Based on available data, the classification criteria are not met)</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not classified (Based on available data, the classification criteria are not met)</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Not classified (Based on available data, the classification criteria are not met)</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Not classified (Based on available data, the classification criteria are not met)</td>
</tr>
<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
<td>Not classified (Based on available data, the classification criteria are not met)</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not classified (Based on available data, the classification criteria are not met)</td>
</tr>
</tbody>
</table>

Potential Adverse human health effects and symptoms:

- Symptoms/injuries after inhalation: Overexposure to dusts may produce slight irritation of the respiratory system.
- Symptoms/injuries after eye contact: May cause slight irritation to eyes.
- Symptoms/injuries after ingestion: On ingestion in large quantities: may cause gastrointestinal disturbance.

SECTION 12: Ecological information

12.1. Toxicity
No additional information available

12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>Aluminum Hydroxide Gels</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability</td>
</tr>
</tbody>
</table>

12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Aluminum Hydroxide Gels</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bioaccumulative potential</td>
</tr>
</tbody>
</table>

12.4. Mobility in soil
No additional information available

12.5. 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

13.1. Waste treatment methods

- **Waste disposal recommendations**: Dispose in a safe manner in accordance with local/national regulations. Empty containers should be rinsed and discarded in a waste container or offered for recycling if possible. Do not re-use empty containers except for storage and shipment of original product.

- **Ecology - waste materials**: Avoid release to the environment.

### SECTION 14: Transport information

**In accordance with DOT**  
Not regulated for transport

**Additional information**  
Other information: No supplementary information available.

**ADR**  
Transport document description: 

**Transport by sea**  
No additional information available

**Air transport**  
No additional information available

### SECTION 15: Regulatory information

**15.1. US Federal regulations**  
No additional information available

**15.2. International regulations**  
**CANADA**  
No additional information available

**EU-Regulations**  
No additional information available

**Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]**  
No additional information available

**15.2.2. National regulations**  
No additional information available

**15.3. US State regulations**  
No supplementary information available

### SECTION 16: Other information

**Abbreviations and acronyms**  

**Date of SDS preparation**: 05/01/2015

**Other information**: None.