Section 1. Product and Company Identification

**Product Name**  
Salbutamol Sulfate

**Product ID**  
S0045

**Chemical Name**  
Aerolin; Asmaven; Eccovent; Loftan; Salbumol; Salbuvent; Venetlin; Volmax

**Supplier**  
LKT Laboratories, Inc  
545 Phalen Blvd.  
St. Paul, MN 55130 USA  
Ph: 651-644-8424 Fax: 651-644-8357  
www.lktlabs.com - getinfo@lktlabs.com

**Emergency Phone #**  
1-800-424-9300

Section 2. Hazards Identification

**GHS Classification**  
Not a hazardous substance or mixture.

GHS Label elements including precautionary statements

**Pictogram**

**Signal word**

**Hazard and precautionary statements**

**Hazard statement**
Not a hazardous substance or mixture.

**Precautionary statement**
Not a hazardous substance or mixture.

**HMIS Classification**
Health hazard: 0  
Chronic health hazard: 0  
Flammability: 0  
Physical hazard: 0

**NFPA Rating**
Health hazard: 0  
Fire hazard: 0  
Reactivity hazard: 0

**Potential Health Effects**
Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.  
Skin: May be harmful if absorbed through skin. May cause skin irritation.  
Eyes: May causes eye irritation.
Flash Point

> 250˚C (> 482˚CF)

Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical powder or carbon dioxide.

Firefighting Procedures

Wear self-contained breathing apparatus and protective clothing for fire fighting if necessary.

Unusual Fire Hazards

Carbon oxides, nitrogen oxides (NOx) and sulfur oxides.

Eye Contact

Flush eyes with water as a precaution.

Skin Contact

Wash with soap and plenty of water.

Inhalation

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

Ingestion

Never give anything by mouth to an unconscious person. Rinse mouth with water.

Section 3. Composition/Information on Ingredients

Substances

<table>
<thead>
<tr>
<th>Formula</th>
<th>Formula Wt.</th>
<th>CAS No.</th>
<th>EC No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>(C_{13}H_{21}NO_{3})_2 \cdot H_2SO_4</td>
<td>576.70</td>
<td>51022-70-9</td>
<td>256-916-8</td>
</tr>
</tbody>
</table>

Section 4. First Aid Measures

General advice

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

Eye Contact

Flush eyes with water as a precaution.

Skin Contact

Wash with soap and plenty of water.

Inhalation

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

Ingestion

Never give anything by mouth to an unconscious person. Rinse mouth with water.

Section 5. Firefighting Measures

Flash Point

> 250˚C (> 482˚CF)

Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical powder or carbon dioxide.

Firefighting Procedures

Wear self-contained breathing apparatus and protective clothing for fire fighting if necessary.

Unusual Fire Hazards

Carbon oxides, nitrogen oxides (NOx) and sulfur oxides.

Section 6. Accidental Release Measures

Personal Precautions

Avoid dust formation. Avoid breathing vapors, mist or gas.

Environmental Precautions

Do not let product enter drains.

Methods and materials for containment and cleanup

Avoid raising dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Section 7. Handling and Storage

Handling

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventative fire protection.

Storage Conditions

Store in a dry, dark and well-ventilated place in a tightly closed container.

Hazardous Decomposition Products

Not available.

Other Remarks

This product is light sensitive.
Section 8. Exposure Controls/Personal Protection

**Personal protective equipment**

**EXPOSURE CONTROLS**
Contains no substances with occupational exposure limit values.

**GENERAL HYGIENE**
General industrial hygiene practice.

**PERSONAL PROTECTION**

**Eye/face protection:** Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

**Skin 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.

**Body protection:** Choose body protection in relation to its type, to the concentration and amount of dangerous substances and to the specific workplace. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection:** Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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Section 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid.</td>
<td>White to almost white, crystalline powder.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Boiling Point</th>
<th>Volatility</th>
</tr>
</thead>
<tbody>
<tr>
<td>433.5˚C</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Melting Point</th>
<th>Density</th>
</tr>
</thead>
<tbody>
<tr>
<td>180˚C</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Solubility</th>
<th>pH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soluble in water. Slightly soluble in ethanol.</td>
<td>Not available.</td>
</tr>
<tr>
<td>&gt; 250˚C (&gt; 482˚CF)</td>
<td>Ignition temperature</td>
</tr>
<tr>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lower explosion limit</th>
<th>Autoignition temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Upper explosion limit</th>
<th>Vapor pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Water solubility</th>
<th>Odor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soluble in water.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Partition coefficient: n-octanol/water</th>
<th>Odor Threshold</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Relative vapor density</th>
<th>Evaporation rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

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Section 10. Stability and Reactivity

**Stability**
Stable under recommended storage conditions.

**Materials To Avoid**
Strong oxidizing agents.

**Hazardous Decomposition Products**
Not available.
<table>
<thead>
<tr>
<th>Section 11. Toxicological Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Oral LD50</strong> Rat - 2500 mg/kg</td>
</tr>
<tr>
<td><strong>Skin corrosion/irritation</strong> No data available.</td>
</tr>
<tr>
<td><strong>Inhalation LC50</strong> No data available.</td>
</tr>
<tr>
<td><strong>Serious eye damage/irritation</strong> No data available.</td>
</tr>
<tr>
<td><strong>Dermal LD50</strong> No data available.</td>
</tr>
<tr>
<td><strong>Respiratory or skin sensitization</strong> No data available.</td>
</tr>
<tr>
<td><strong>Other information on acute toxicity</strong> No data available.</td>
</tr>
<tr>
<td><strong>Germ cell mutagenicity</strong> No data available.</td>
</tr>
<tr>
<td><strong>Aspiration Hazard</strong> No data available.</td>
</tr>
<tr>
<td><strong>Specific organ toxicity single exposure (GHS)</strong> No data available.</td>
</tr>
<tr>
<td><strong>Synergistic effects</strong> No data available.</td>
</tr>
<tr>
<td><strong>Specific organ toxicity repeated exposure (GHS)</strong> No data available.</td>
</tr>
<tr>
<td><strong>Teratogenicity</strong> No data available.</td>
</tr>
<tr>
<td><strong>Additional Information</strong> RTECS: CZ6430100</td>
</tr>
<tr>
<td><strong>Potential Health Effects</strong> Inhalation: May be harmful if inhaled. May cause respiratory tract irritation. Skin: May be harmful if absorbed through skin. May cause skin irritation. Eyes: May causes eye irritation. Ingestion: May be harmful if swallowed.</td>
</tr>
<tr>
<td><strong>Carcinogenicity</strong> Carcinogenicity - rat - Oral Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Tumorigenic Effects: Ovarian tumors. Tumorigenic: Tumor types after systemic administration not seen spontaneously. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Section 12. Ecological Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Toxicity</strong> Not available.</td>
</tr>
<tr>
<td><strong>Mobility in soil</strong> Not available.</td>
</tr>
<tr>
<td><strong>PBT and vPvB assessment</strong> PBT/vPvB assessment not available as chemical safety assessment not required/not</td>
</tr>
</tbody>
</table>

**Possibility of hazardous reactions** Not available.

**Conditions to avoid** This product is light sensitive.
Section 13. Disposal Considerations

Waste Disposal
Dispose of material according to all federal, state and local regulations. Offer material to a licensed, professional waste disposal company to dispose of as unused product.

Section 14. Transport Information

DOT (US) Not dangerous goods.
IATA Not dangerous goods.
IMDG Not dangerous goods.

Further Information

Section 15. Regulatory Information

Reach No.

SARA 302 Components No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Components No SARA hazards.

Massachusetts Right To Know Components No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components Salbutamol sulfate CAS #: 51022-70-9 Revision Date:

New Jersey Right To Know Components Salbutamol sulfate CAS #: 51022-70-9 Revision Date:

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.

Section 16. Other Information

The information in this document is believed to be correct but is not necessarily complete. LKT does not guarantee the accuracy of the information. The burden of verifying the information in this document rests solely upon the user.
For emergencies in the USA, call CHEMTREC 800-424-9300

Updated 6/11/2020