MSDS for (Propyl gallate)

Section 1 - Chemical Product and Company Identification

MSDS Name Propyl gallate
Catalog Numbers 237587
Synonyms
Company Identification J&K SCIENTIFIC LTD.
18AEF, Building-D, Majestic Garden 6 Bei-Si-Huan-Zhong Road Beijing China 100029
For information, call North America: (435)-753-1901
China: (86 10) 82848833
For emergencies, call North America: (800) 424-9300
China: (86 532) 3889090; (86 532) 3889191

Section 2 - Composition, Information on Ingredients

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name</th>
<th>%</th>
<th>EINECS#</th>
</tr>
</thead>
<tbody>
<tr>
<td>121-79-9</td>
<td>Propyl gallate</td>
<td>98%</td>
<td>204-498-2</td>
</tr>
</tbody>
</table>

Haz Symbols Xn
Risk Phrases 22 43

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Harmful if swallowed. May cause sensitization by skin contact.

POTENTIAL HEALTH EFFECTS

Eye May cause eye irritation.
Skin Harmful if absorbed through skin. May cause skin irritation.
Ingestion Harmful if swallowed.
Inhalation May be harmful if inhaled. Causes respiratory tract irritation.
Chronic
Section 4 - First aid Measures

Eyes
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin
Wash off with soap and plenty of water. Consult a physician.

Ingestion
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

Section 5 - Fire Fighting Measures

General Information
Wear self contained breathing apparatus for fire fighting if necessary.

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

Section 6 - Accidental Release Measures

General Information
Use proper personal protective equipment as indicated in section 8.

Spills/Leaks
Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

Section 7 - Handling and Storage

Handling
Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Storage
Store in a cool, dry place. Store in a tightly closed container.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls
Not available.
Eyes
Chemical safety goggles.

Skin
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Clothing
Wear appropriate protective clothing to prevent skin exposure.

Respirators
Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Section 9 - Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Powder</td>
</tr>
<tr>
<td>Color</td>
<td>White to off-white</td>
</tr>
<tr>
<td>Odor</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available</td>
</tr>
<tr>
<td>Freezing/Melting Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>146-149°C</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>86.1°C</td>
</tr>
<tr>
<td>Explosion Limits, lower</td>
<td>Not available</td>
</tr>
<tr>
<td>Explosion Limits, upper</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>Not available</td>
</tr>
<tr>
<td>Specific Gravity/Density</td>
<td>1.210</td>
</tr>
<tr>
<td>Molecular Formula</td>
<td>C10H12O5</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>212.20</td>
</tr>
</tbody>
</table>

Section 10 - Stability and Reactivity

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Stability</td>
<td>Stable under recommended storage conditions.</td>
</tr>
<tr>
<td>Conditions to Avoid</td>
<td>Incompatible materials.</td>
</tr>
<tr>
<td>Incompatibilities with Other Materials</td>
<td>Strong oxidizing agents, Strong acids, Strong bases, Strong reducing agents</td>
</tr>
<tr>
<td>Hazardous Decomposition Products</td>
<td>Hazardous decomposition products formed under fire conditions. - Carbon oxides.</td>
</tr>
<tr>
<td>Hazardous Polymerization</td>
<td>Will not occur.</td>
</tr>
</tbody>
</table>
MSDS for (Propyl gallate)

Section 11 - Toxicological Information

RTECS# CAS#121-79-9: LW8400000.
LD50/LC50 Not available.
Carcinogenicity Propyl gallate - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Section 12 - Ecological Information

Not available.

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

<table>
<thead>
<tr>
<th>IATA</th>
<th>IMO</th>
<th>RID/ADR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
</tr>
</tbody>
</table>

Section 15 - Regulatory Information

European/International Regulations

Hazard Symbols Xn
Risk Phrases
R 22: Harmful if swallowed.
R 43: May cause sensitization by skin contact.
Safety Phrases
S 24: Avoid contact with skin.
S24/25 Avoid contact with skin and eyes.
S 37: Wear suitable gloves.
WGK (Water Danger/Protection)
CAS#121-79-9: 2.
**** MATERIAL SAFETY DATA SHEET ****

Section 16 - Additional Information

MSDS Creation Date 2010-1-27
Revision #1 Date Original

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