MSDS for (3-Nitrophthalic acid)

**Section 1 - Chemical Product and Company Identification**

**MSDS Name** 3-Nitrophthalic acid  
**Catalog Numbers** 390196  
**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>603-11-2</td>
<td>3-Nitrophthalic acid</td>
<td>98%</td>
<td>210-030-8</td>
</tr>
</tbody>
</table>

**Haz Symbols** Xi

**Risk Phrases** 36/37/38 41

**Section 3 - Hazards Identification**

**EMERGENCY OVERVIEW**

Irritating to eyes, respiratory system and skin. Risk of serious damage to eyes.

**POTENTIAL HEALTH EFFECTS**

**Eye**  
Causes eye irritation.

**Skin**  
May be harmful if absorbed through skin. Causes skin irritation.

**Ingestion**  
May be harmful if swallowed.

**Inhalation**  
May be harmful if inhaled. Causes respiratory tract irritation.
**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.

**Notes to 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 contact with skin and eyes. 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.

**PERSONAL PROTECTIVE EQUIPMENT**
Eyes
Face shield and safety glasses.

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>210°C</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not available</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></td>
</tr>
<tr>
<td>Molecular Formula</td>
<td>C8H5N06</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>211.13</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 bases</td>
</tr>
<tr>
<td>Hazardous Decomposition Products</td>
<td>Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (Nox).</td>
</tr>
<tr>
<td>Hazardous Polymerization</td>
<td>Will not occur.</td>
</tr>
</tbody>
</table>
Section 11 - Toxicological Information

RTECS#: CAS#603-11-2: None listed.
LD50/LC50: Not available.
Carcinogenicity: 3-Nitrophthalic acid - 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: Xi
Risk Phrases:
  - R 36/37/38: Irritating to eyes, respiratory system and skin.
  - R 41: Risk of serious damage to eyes.
Safety Phrases:
  - S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
  - S 36/39: Wear suitable protective clothing and eye/face protection.
WGK (Water Danger/Protection):
  - CAS#603-11-2: 3.
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