3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: 5,7-Dihydroxy-3-(4-hydroxyphenyl)-4H-1-benzopyran-4-one
4',5,7-Trihydroxyisoflavone

Formula: C_{15}H_{10}O_{5}

Molecular Weight: 270.24 g/mol

<table>
<thead>
<tr>
<th>Component</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>5,7-Dihydroxy-3-(4-hydroxyphenyl)-4-benzopyrone</td>
<td></td>
</tr>
<tr>
<td>CAS-No.</td>
<td>448-72-9</td>
</tr>
<tr>
<td>EC-No.</td>
<td>207-174-9</td>
</tr>
</tbody>
</table>
**Recommended storage temperature**: -20 °C  
Keep in a dry place.

### 6. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values. 

**Personal protective equipment**

**Respiratory protection**  
For nuisance exposures use type P2 (US) or type P1 (EU EN 143) particulate respirator. For higher level protection use type N95 (US) or type FFP2 (EU EN 143) respiratory cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or EN 149 (EU).

**Hand 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.

**Eye protection**  
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166/EU.

**Skin and body protection**  
Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Hygiene measures**  
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Appearance</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Form</strong></td>
<td>powder</td>
</tr>
<tr>
<td><strong>Colour</strong></td>
<td>light yellow</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Safety data</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>pH</strong></td>
<td>no data available</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>&gt; 260 °C (&gt; 536 °F)</td>
</tr>
<tr>
<td>Boiling point</td>
<td>no data available</td>
</tr>
<tr>
<td>Flash point</td>
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</tr>
<tr>
<td><strong>Ignition temperature</strong></td>
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</tr>
<tr>
<td>Autoignition temperature</td>
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</tr>
<tr>
<td>Lower explosion limit</td>
<td>no data available</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>no data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
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</tr>
<tr>
<td><strong>Density</strong></td>
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</tr>
<tr>
<td>Water solubility</td>
<td>no data available</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>no data available</td>
</tr>
<tr>
<td>Relative vapour density</td>
<td>no data available</td>
</tr>
</tbody>
</table>

### 10. STABILITY AND REACTIVITY

**Chemical stability**  
Stable under recommended storage conditions.

**Possibility of hazardous reactions**  
no data available

**Conditions to avoid**  
Light.

**Materials to avoid**  
Strong oxidizing agents

**Hazardous decomposition products**  
Hazardous decomposition products formed under fire conditions. - Carbon oxides

**Other decomposition products - no data available**

### 11. TOXICOLOGICAL INFORMATION

**Acute toxicity**

- Oral LD50  
  LD50 Oral - mouse - 500 mg/kg

- Inhalation LC50  
  no data available

- Dermal LD50  
  no data available

- Other information on acute toxicity  
  no data available

**Skin corrosion/irritation**  
no data available

**Serious eye damage/eye irritation**  
no data available

**Respiratory or skin sensitization**  
no data available

**Germ cell mutagenicity**  
Genotoxicity in vitro - Human - lymphocyte

**Micronucleus test**

**Genotoxicity in vitro - Human - Other cell types**

**DNA damage**

**Carcinogenicity**

- 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.

**Reproductive toxicity**  
no data available
15. REGULATORY INFORMATION

OSHA Hazards
Toxic by ingestion

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

SARA 313 Components
SARA 313: 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 Hazards
Acute Health Hazard

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

Pennsylvania Right To Know Components
5,7-Dihydroxy-3-(4-hydroxyphenyl)-4-benzopyrone
CAS No: 446-72-0

New Jersey Right To Know Components
5,7-Dihydroxy-3-(4-hydroxyphenyl)-4-benzopyrone
CAS No: 446-72-0

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.

16. OTHER INFORMATION

Further information
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