Section 1. Product and Company Identification

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Genistein</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product ID</td>
<td>G1652</td>
</tr>
<tr>
<td>Chemical Name (Synonyms)</td>
<td>Prunetol; Genisteol</td>
</tr>
<tr>
<td>Supplier</td>
<td>LKT Laboratories, Inc</td>
</tr>
<tr>
<td></td>
<td>545 Phalen Blvd.</td>
</tr>
<tr>
<td></td>
<td>St. Paul, MN 55130 USA</td>
</tr>
<tr>
<td></td>
<td>Ph: 651-644-8424 Fax: 651-644-8357</td>
</tr>
<tr>
<td></td>
<td><a href="http://www.lktlabs.com">www.lktlabs.com</a> - <a href="mailto:getinfo@lktlabs.com">getinfo@lktlabs.com</a></td>
</tr>
<tr>
<td>Emergency Phone #</td>
<td>1-800-424-9300</td>
</tr>
</tbody>
</table>

Section 2. Hazards Identification

GHS Classification
Acute toxicity, Oral (Category 4), H302

GHS Label elements including precautionary statements

Pictogram
![Warning]

Signal word
Warning

Hazard and precautionary statements
Hazard statement
H302 - Harmful if swallowed.

Precautionary statements
P264 - Wash sin thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330 - Rinse mouth.
P501 - Dispose of contents/container to an approved waste disposal plant.

HMIS Classification
Health hazard: 2
Chronic health hazard: *
Flammability: 0
Physical hazard: 0

NFPA Rating
Health hazard: 2
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 cause serious eye irritation.
Ingestion - Acute toxicity. Harmful if swallowed.

---

### Section 3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Substances</th>
<th>Formula</th>
<th>Formula Wt.</th>
<th>CAS No.</th>
<th>EC No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>C\textsubscript{15}H\textsubscript{10}O\textsubscript{5}</td>
<td>270.24</td>
<td>446-72-0</td>
<td>207-174-9</td>
<td></td>
</tr>
</tbody>
</table>

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### 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 off with soap and plenty of water. Consult a physician.

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

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

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### Section 5. Firefighting Measures

**Flash Point**
Not available.

**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.

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### Section 6. Accidental Release Measures

**Personal Precautions**
Use personal protective equipment. Avoid dust formation. Avoid breathing dust, vapors, mist, dust or gas. Ensure adequate ventilation.

**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.

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### Section 7. Handling and Storage

**Handling**
Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.

**Storage Conditions**
Store in a tightly closed container in a dry and well-ventilated place. Recommended storage temperature: -20°C.

**Hazardous Decomposition Products**
Not available.

**Other Remarks**
Storage class (TRGS 510): Noncombustible solids.
Section 8. Exposure Controls/Personal Protection

Personal protective equipment
EXPOSURE CONTROLS
Contains no substances with occupational exposure limit values. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

PERSONAL PROTECTION
Eye/face protection: Safety glasses with side-shields conforming to EN 166. 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. Full and splash contact - Material: nitrile rubber. Minimum layer thickness: 0.11 mm, Break through time: 480 min., Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M).
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.
Respiratory protection: For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection, use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Section 9. Physical and Chemical Properties

Physical State
Solid.
Color
Pale yellow crystalline powder.
Boiling Point
Not available.
Volatility
Not available.
Melting Point
297°C-298°C (slight dec.).
Density
Not available.
Solubility
Soluble in acetone or ethanol. Insoluble in water.
Flash Point
Not available.
Ignition temperature
Not available.
Lower explosion limit
Not available.
Autoignition temperature
Not available.
Upper explosion limit
Not available.
Vapor pressure
Not available.
Water solubility
Insoluble in water.
Odor
Not available.
Partition coefficient: n-octanol/water
Not available.
Threshold
Not available.
Relative vapor density
Not available.
Evaporation rate
Not available.

Section 10. Stability and Reactivity

Stability
Stable under recommended storage conditions.

Materials To Avoid
 Keep away from heat and strong oxidizing agents.

Hazardous Decomposition Products
Not available.
Section 11. Toxicological Information

Oral LD50  Mouse - 500 mg/kg
Inhalation LC50  Not available.
Dermal LD50  Not available.
Other information on acute toxicity  Not available.
Reproductive Toxicity  Not available.
Specific organ toxicity single exposure (GHS)  Not available.
Specific organ toxicity repeated exposure (GHS)  Not available.
Teratogenicity  Not available.
Skin corrosion/irritation  Not available.
Serious eye damage/irritation  Not available.
Respiratory or skin sensitization  Not available.
Germ cell mutagenicity  Human lymphocyte
Micronucleus test
Other cell types
DNA damage
Aspiration Hazard  Not available.
Synergistic effects  Not available.
Additional Information  RTECS: NR2392000
To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

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 cause serious eye irritation.
Ingestion - Acute toxicity. Harmful if swallowed.

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.

Section 12. Ecological Information

Toxicity  Not available.
Mobility in soil  Not available.
PBT and vPvB assessment  Not available as chemical safety assessment not required/ not
Persistence and degradability Not available.

Bioaccumulative potential Not available.

Section 13. Disposal Considerations

**Waste Disposal**
Dispose of material according to all federal, state, and local regulations. Offer material to a licensed professional 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.

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** 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 #: 446-72-0 Revision Date:

- **New Jersey Right To Know Components** 5,7-Dihydroxy-3-(4-hydroxyphenyl)-4-benzopyrone CAS #: 446-72-0 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

**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.