MATERIAL SAFETY DATA SHEET
Guaiacol

Section 1 - Chemical Product and Company Identification

MSDS Name: Guaiacol
Catalog Numbers: 12019-0000, 12019-0010, 12019-2500
Synonyms: 2-Methoxyphenol
Company Identification: Acros Organics BVBA
Janssen Pharmaceuticaalaaan 3a
2440 Geel, Belgium
Company Identification: (USA)
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410
For information in the US, call: 800-ACROS-01
For information in Europe, call: +32 14 57 52 11
Emergency Number, Europe: +32 14 57 52 99
Emergency Number US: 201-796-7100
CHEMTREC Phone Number, US: 800-424-9300
CHEMTREC Phone Number, Europe: 703-527-3887

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>90-05-1</td>
<td>Guaiacol</td>
<td>99+%</td>
<td>201-964-7</td>
</tr>
</tbody>
</table>

Hazard Symbols: XN
Risk Phrases: 22 36/38

Section 3 - Hazards Identification

EMERGENCY OVERVIEW
Harmful if swallowed. Irritating to eyes and skin.

Potential Health Effects

Eye: Causes eye irritation. Causes redness and pain.
Skin: Causes severe skin irritation. Causes redness and pain. May be harmful if absorbed through the skin.
Ingestion: Harmful if swallowed. May cause irritation of the digestive tract. May cause gastrointestinal irritation with nausea, vomiting and diarrhea.
Inhalation: May cause respiratory tract irritation. May be harmful if inhaled.
Chronic:
Section 4 - First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Get medical aid. Wash mouth out with water.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Will burn if involved in a fire. Combustible liquid.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

Section 6 - Accidental Release Measures

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

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Remove all sources of ignition. Use a spark-proof tool. Do not let this chemical enter the environment.

Section 7 - Handling and Storage

Handling: Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Avoid ingestion and inhalation. Use only in a chemical fume hood.

Storage: Keep away from sources of ignition. Store in a cool, dry place. Store in a tightly closed container.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

CAS# 90-05-1:

Personal Protective Equipment

Eyes: Wear chemical splash goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Solid

Color: After melting, clear slightly yellow
**Odor:** aromatic odor  
**pH:** Not available  
**Vapor Pressure:** 0.11 mm Hg @25 deg C  
**Viscosity:** Not available  
**Boiling Point:** 205 deg C @760 mm Hg (401.00°F)  
**Freezing/Melting Point:** 27 - 29 deg C  
**Autoignition Temperature:** 385 deg C (725.00 deg F)  
**Flash Point:** 82 deg C (179.60 deg F)  
**Explosion Limits: Lower:** Not available  
**Explosion Limits: Upper:** Not available  
**Decomposition Temperature:** Not available  
**Solubility in water:** 17 g/L (15°C)  
**Specific Gravity/Density:** 1.120  
**Molecular Formula:** C7H8O2  
**Molecular Weight:** 124.14

### Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.  
**Conditions to Avoid:** Incompatible materials.  
**Incompatibilities with Other Materials**  
Strong oxidizing agents, strong bases, acid chlorides, aluminum, acid anhydrides, aluminum alloys.  
**Hazardous Decomposition Products**  
Carbon monoxide, carbon dioxide.  
**Hazardous Polymerization**  
Will not occur.

### Section 11 - Toxicological Information

**RTECS#:** CAS# 90-05-1: SL7525000  
**LD50/LC50:**  
**CAS# 90-05-1:** Draize test, rabbit, eye: 5 mg Mild;  
Draize test, rabbit, skin: 500 mg/24H Severe;  
Inhalation, mouse: LC50 = 7570 mg/m3;  
Inhalation, mouse: LC50 = 7570 mg/m3/2H;  
Oral, mouse: LD50 = 621 mg/kg;  
Oral, rat: LD50 = 520 mg/kg;  
Skin, rabbit: LD50 = 4600 mg/kg;  
**Other:**  
**Carcinogenicity:** Guaiacol - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.  
**Other:** See actual entry in RTECS for complete information. The toxicological properties have not been fully investigated.

### Section 12 - Ecological Information

**Ecotoxicity:** Not available  
**Other:** Do not empty into drains.  
Log Pow: 1.32

### 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>
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<tbody>
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</table>

Hazard Class: Not regulated.

UN Number: Not regulated.

Packing Group: Not regulated.

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN

Risk Phrases:
- R 22 Harmful if swallowed.
- R 36/38 Irritating to eyes and skin.

Safety Phrases:
- S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

WGK (Water Danger/Protection)

CAS# 90-05-1: 1

Canada

CAS# 90-05-1 is listed on Canada's DSL List

US Federal

TSCA

CAS# 90-05-1 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 8/26/1996

Revision #1 Date 3/14/2005

Revisions were made in Sections: General revision.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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