Material Safety Data Sheet
Butylated Hydroxyanisole, 96%(GC)

Section 1 - Chemical Product and Company Identification

**MSDS Name:** Butylated Hydroxyanisole, 96%(GC)
**Synonyms:** B.H.A.; Tert-Butylhydroxyanisole; Tert-Butyl-4-Hydroxyanisole.

Section 2 - Composition, Information on Ingredients

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name</th>
<th>Percent</th>
<th>EINECS/ELINCS</th>
</tr>
</thead>
<tbody>
<tr>
<td>25013-16-5</td>
<td>Butylated Hydroxyanisole</td>
<td>96.0%</td>
<td>246-563-8</td>
</tr>
</tbody>
</table>

Section 3 - Hazards Identification

**EMERGENCY OVERVIEW**

Appearance: white to yellow white solid.
**Warning!** Possible cancer hazard. May cause cancer based on animal data. Risk of cancer depends on duration and level of exposure. Harmful if swallowed. Irritant. Causes eye, skin, and respiratory tract irritation. May cause allergic skin reaction. May be harmful if swallowed. Light sensitive.
**Target Organs:** Respiratory system, eyes, skin.

**Potential Health Effects**
**Eye:** Causes eye irritation. May cause chemical conjunctivitis.
**Skin:** Causes skin irritation. May cause allergic contact dermatitis.
**Ingestion:** Harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea.
**Inhalation:** Causes severe respiratory tract irritation.
**Chronic:** May cause cancer according to animal studies. May cause fetal effects based on animal studies.

Section 4 - First Aid Measures

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

**Skin:** Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

**Ingestion:** If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

**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.

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**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. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. This material in sufficient quantity and reduced particle size is capable of creating a dust explosion.

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

**Flash Point:** Not applicable.

**Autoignition Temperature:** Not applicable.

**Explosion Limits, Lower:** Not available.

**Upper:** Not available.

**NFPA Rating:** (estimated) Health: 2; Flammability: 0; Instability: 0

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**Section 6 - Accidental Release Measures**

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

**Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container. Reduce airborne dust and prevent scattering by moistening with water. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

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**Section 7 - Handling and Storage**

**Handling:** Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

**Storage:** Store in a cool place in the original container and protect from sunlight. Keep container closed when not in use. 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**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA - Final PELs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butylated Hydroxyanisole</td>
<td>none listed</td>
<td>none listed</td>
<td>none listed</td>
</tr>
</tbody>
</table>

**Personal Protective Equipment**

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA’s eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

Section 9 - Physical and Chemical Properties

**Physical State:** Solid

**Appearance:** white to yellow white

**Odor:** Faint characteristic odor.

**pH:** Not available.

**Vapor Pressure:** Not available.

**Vapor Density:** 6.2

**Evaporation Rate:** Not available.

**Viscosity:** Not available.

**Boiling Point:** 270 deg C

**Freezing/Melting Point:** 48.00 - 55.00 C

**Decomposition Temperature:** Not available.

**Solubility:** Insoluble in water.

**Specific Gravity/Density:** 1.05

**Molecular Formula:** C11H16O2

**Molecular Weight:** 180.1108

Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.

**Conditions to Avoid:** Light, dust generation.

**Incompatibilities with Other Materials:** Strong oxidizing agents.

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide.

**Hazardous Polymerization:** Has not been reported.

Section 11 - Toxicological Information
**RTECS#:**
CAS# 25013-16-5: SL1945000

**LD50/LC50:**
CAS# 25013-16-5:
- Oral, mouse: LD50 = 1100 mg/kg;
- Oral, rabbit: LD50 = 2100 mg/kg;
- Oral, rat: LD50 = 2 gm/kg;

**Carcinogenicity:**
CAS# 25013-16-5:
- **ACGIH:** Not listed.
- **California:** carcinogen, initial date 1/1/90
- **NTP:** Suspect carcinogen
- **IARC:** Group 2B carcinogen

**Epidemiology:** Human patch tests have shown that BHA produces allergic contact dermatitis.

**Teratogenicity:** Teratogenic effects have occurred in experimental animals.

**Reproductive Effects:** No data available.

**Mutagenicity:** No data available.

**Neurotoxicity:** No data available.

**Other Studies:**

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**Section 12 - Ecological Information**

No information available.

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**Section 13 - Disposal Considerations**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**RCRA P-Series:** None listed.

**RCRA U-Series:** None listed.

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**Section 14 - Transport Information**

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<thead>
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<th></th>
<th><strong>US DOT</strong></th>
<th><strong>Canada TDG</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Shipping Name:</strong></td>
<td>Not regulated as a hazardous material</td>
<td>No information available.</td>
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<tr>
<td><strong>Hazard Class:</strong></td>
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<td></td>
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<tr>
<td><strong>UN Number:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Packing Group:</strong></td>
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</tbody>
</table>

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**Section 15 - Regulatory Information**
**Hazard Symbols:**
XN

**Risk Phrases:**
- R 22 Harmful if swallowed.
- R 36/37/38 Irritating to eyes, respiratory system and skin.
- R 40 Limited evidence of a carcinogenic effect.

**Safety Phrases:**
- S 23 Do not inhale gas/fumes/vapour/spray.
- S 36/37 Wear suitable protective clothing and gloves.
- S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- S 60 This material and its container must be disposed of as hazardous waste.

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**Section 16 - Additional Information**

**MSDS Creation Date:** 9/24/1998  
**Revision #6 Date:** 9/13/2004

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