



## Material Safety Data Sheet

|               |  |                                      |   |             |   |            |   |                     |
|---------------|--|--------------------------------------|---|-------------|---|------------|---|---------------------|
| <b>NFPA</b>   | <b>HMIS</b>  | <b>Personal Protective Equipment</b> |   |             |   |            |   |                     |
|               | <table border="1"> <tr><td style="background-color: cyan;">Health Hazard</td><td style="text-align: center;">1</td></tr> <tr><td style="background-color: pink;">Fire Hazard</td><td style="text-align: center;">1</td></tr> <tr><td style="background-color: yellow;">Reactivity</td><td style="text-align: center;">0</td></tr> </table> | Health Hazard                        | 1 | Fire Hazard | 1 | Reactivity | 0 | <br>See Section 15. |
| Health Hazard | 1  |                                      |   |             |   |            |   |                     |
| Fire Hazard   | 1  |                                      |   |             |   |            |   |                     |
| Reactivity    | 0  |                                      |   |             |   |            |   |                     |

| Section 1. Chemical Product and Company Identification |  | Page Number: 1   |
|--|--|--|
| <b>Common Name/Trade Name</b>                          | <b>Benzoin Gum</b>   | <b>Catalog Number(s).</b> B1919  |
| <b>Manufacturer</b>                                    |  | <b>CAS#</b> 9000-05-9  |
| <b>Commercial Name(s)</b>                              | Not available.   | <b>RTECS</b> Not available.  |
| <b>Synonym</b>   | Benzoin, Resin (Styrax spp.); Gum Benzoin; Benjamin gum; Benzoe; Benzoin gum, Sumatra; Benzoin Malasia; Benzoin resin; Benzoin Resinoid; Benzoin resinoid, Siam; Benzoin Siam; Benzoin Siam resin; Benzoin Sumatra; Gum benjamin; Styrax benzoin; Styrax Benzoin Sumatra | <b>TSCA</b> TSCA 8(b) inventory: Benzoin Gum                                     |
| <b>Chemical Name</b>                                   | Benzoin Gum  | <b>CI#</b> Not available.  |
| <b>Chemical Family</b>                                 | Not available.   | <b><u>IN CASE OF EMERGENCY</u></b><br><b><u>CHEMTREC (24hr) 800-424-9300</u></b> |
| <b>Chemical Formula</b>                                | Not available.   |  |
| <b>Supplier</b>  | <b>Saffire Blue, Inc.</b><br>1444 Bell Mill Road<br>Tillsonburg, ON N4G 4G9 Canada   |  |

| Section 2. Composition and Information on Ingredients    |           |                          |                           |                           |             |
|--|-----------|--------------------------|---------------------------|---------------------------|-------------|
| Name   | CAS #     | Exposure Limits          |                           |                           | % by Weight |
|  |           | TWA (mg/m <sup>3</sup> ) | STEL (mg/m <sup>3</sup> ) | CEIL (mg/m <sup>3</sup> ) |             |
| 1) Benzoin Gum   | 9000-05-9 |                          |                           |                           | 100         |
| <b>Toxicological Data on Ingredients</b> Not applicable. |           |                          |                           |                           |             |

| Section 3. Hazards Identification       |   |
|---|---|
| <b>Potential Acute Health Effects</b>   | Slightly hazardous in case of skin contact (irritant), of ingestion. Non-irritating to the eyes. Non-hazardous in case of inhalation.   |
| <b>Potential Chronic Health Effects</b> | <b>CARCINOGENIC EFFECTS:</b> Not available.<br><b>MUTAGENIC EFFECTS:</b> Not available.<br><b>TERATOGENIC EFFECTS:</b> Not available.<br><b>DEVELOPMENTAL TOXICITY:</b> Not available.<br>Repeated or prolonged exposure is not known to aggravate medical condition. |

**Section 4. First Aid Measures**

|                             |  |
|-----------------------------|--|
| <b>Eye Contact</b>          | Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.  |
| <b>Skin Contact</b>         | Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.  |
| <b>Serious Skin Contact</b> | Not available.   |
| <b>Inhalation</b>           | If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.   |
| <b>Serious Inhalation</b>   | Not available.   |
| <b>Ingestion</b>            | Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband. |
| <b>Serious Ingestion</b>    | Not available.   |

**Section 5. Fire and Explosion Data**

|  |   |
|--|---|
| <b>Flammability of the Product</b>                         | May be combustible at high temperature.   |
| <b>Auto-Ignition Temperature</b>                           | Not available.  |
| <b>Flash Points</b>  | Not available.  |
| <b>Flammable Limits</b>                                    | Not available.  |
| <b>Products of Combustion</b>                              | Not available.  |
| <b>Fire Hazards in Presence of Various Substances</b>      | Slightly flammable to flammable in presence of heat.  |
| <b>Explosion Hazards in Presence of Various Substances</b> | Risks of explosion of the product in presence of mechanical impact: Not available.<br>Risks of explosion of the product in presence of static discharge: Not available. |
| <b>Fire Fighting Media and Instructions</b>                | SMALL FIRE: Use DRY chemical powder.<br>LARGE FIRE: Use water spray, fog or foam. Do not use water jet.   |
| <b>Special Remarks on Fire Hazards</b>                     | As with most organic solids, fire is possible at elevated temperatures  |
| <b>Special Remarks on Explosion Hazards</b>                | Not available.  |

**Section 6. Accidental Release Measures**

|                    |  |
|--------------------|--|
| <b>Small Spill</b> | Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements. |
| <b>Large Spill</b> | Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.                                 |

**Section 7. Handling and Storage**

|                    |  |
|--------------------|--|
| <b>Precautions</b> | Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not breathe dust. Keep away from incompatibles such as oxidizing agents. |
| <b>Storage</b>     | Keep container tightly closed. Keep container in a cool, well-ventilated area.   |

**Section 8. Exposure Controls/Personal Protection**

|   |   |
|---|---|
| <b>Engineering Controls</b>                         | Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. |
| <b>Personal Protection</b>                          | Safety glasses. Lab coat. Gloves (impervious).  |
| <b>Personal Protection in Case of a Large Spill</b> | Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.   |
| <b>Exposure Limits</b>                              | Not available.  |

**Section 9. Physical and Chemical Properties**

|                                      |   |              |   |
|--------------------------------------|---|--------------|---|
| <b>Physical state and appearance</b> | Solid. (Brittle globules at room temperature) | <b>Odor</b>  | Vanilla Like. Sweet, Balsamic, Pleasant |
| <b>Molecular Weight</b>              | Not available.                                | <b>Taste</b> | Spicy. Acrid. Bittersweet               |
| <b>pH (1% soln/water)</b>            | Not applicable.                               | <b>Color</b> | Reddish-Brown                           |
| <b>Boiling Point</b>                 | Not available.                                |              |   |
| <b>Melting Point</b>                 | 60°C (140°F)                                  |              |   |
| <b>Critical Temperature</b>          | Not available.                                |              |   |
| <b>Specific Gravity</b>              | Not available.                                |              |   |
| <b>Vapor Pressure</b>                | Not applicable.                               |              |   |
| <b>Vapor Density</b>                 | Not available.                                |              |   |
| <b>Volatility</b>                    | Not available.                                |              |   |
| <b>Odor Threshold</b>                | Not available.                                |              |   |
| <b>Water/Oil Dist. Coeff.</b>        | Not available.                                |              |   |
| <b>Ionicity (in Water)</b>           | Not available.                                |              |   |
| <b>Dispersion Properties</b>         | Not available.                                |              |   |
| <b>Solubility</b>                    | Insoluble in cold water, hot water.           |              |   |

**Section 10. Stability and Reactivity Data**

|  |                                     |
|--|-------------------------------------|
| <b>Stability</b>                               | The product is stable.              |
| <b>Instability Temperature</b>                 | Not available.                      |
| <b>Conditions of Instability</b>               | Excess heat, incompatible materials |
| <b>Incompatibility with various substances</b> | Reactive with oxidizing agents.     |
| <b>Corrosivity</b>                             | Not available.                      |
| <b>Special Remarks on Reactivity</b>           | Not available.                      |
| <b>Special Remarks on Corrosivity</b>          | Not available.                      |
| <b>Polymerization</b>                          | Will not occur.                     |

**Section 11. Toxicological Information**

|   |   |
|---|---|
| <b>Routes of Entry</b>                                  | Not available.  |
| <b>Toxicity to Animals</b>                              | LD50: Not available.<br>LC50: Not available.  |
| <b>Chronic Effects on Humans</b>                        | Not available.  |
| <b>Other Toxic Effects on Humans</b>                    | Slightly hazardous in case of skin contact (irritant), of ingestion.<br>Non-hazardous in case of inhalation.  |
| <b>Special Remarks on Toxicity to Animals</b>           | Not available.  |
| <b>Special Remarks on Chronic Effects on Humans</b>     | Not available.  |
| <b>Special Remarks on other Toxic Effects on Humans</b> | Acute Potential Health Effects:<br>Skin: May cause skin irritation.<br>Eyes: Unlikely to cause eye irritation<br>Inhalation: Unlikely to cause respiratory tract irritation.<br>Ingestion: Low hazard. May cause digestive/gastrointestinal tract irritation. |


**Section 12. Ecological Information**

|  |   |
|--|---|
| <b>Ecotoxicity</b>                                       | Not available.  |
| <b>BOD5 and COD</b>                                      | Not available.  |
| <b>Products of Biodegradation</b>                        | Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. |
| <b>Toxicity of the Products of Biodegradation</b>        | Not available.  |
| <b>Special Remarks on the Products of Biodegradation</b> | Not available.  |

**Section 13. Disposal Considerations**

|                       |  |
|-----------------------|--|
| <b>Waste Disposal</b> | Waste must be disposed of in accordance with federal, state and local environmental control regulations. |
|-----------------------|--|

**Section 14. Transport Information**

|   |   |
|---|---|
| <b>DOT Classification</b>               | Not a DOT controlled material (United States).                                      |
| <b>Identification</b>                   | Not applicable.   |
| <b>Special Provisions for Transport</b> | Not applicable.   |
| <b>DOT (Pictograms)</b>                 |  |

## Section 15. Other Regulatory Information and Pictograms

## Federal and State Regulations

TSCA 8(b) inventory: Benzoin Gum  
 FDA: Everything Added to Food in the United States: Listed as Benzoin, Resin (Styrax spp.).  
 FEMA: Generally Recognized As Safe List: Listed as Benzoin, Resin (Styrax spp.)

## California Proposition 65 Warnings

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: No products were found.  
 California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: No products were found.

## Other Regulations

EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances (EINECS No. 232-523-7).  
 Canada: Listed on Canadian Domestic Substance List (DSL).  
 China: Listed on National Inventory.  
 Korea: Listed on National Inventory (KECI).  
 Japan: Not listed on National Inventory (ENCS)  
 Philippines: Listed on National Inventory (PICCS).  
 Australia: Listed on AICS.

## Other Classifications


**WHMIS (Canada)** Not controlled under WHMIS (Canada).

**DSCL (EEC)** This product is not classified according to the EU regulations. Not applicable.

## HMIS (U.S.A.)

|                     |   |
|---------------------|---|
| Health Hazard       | 1 |
| Fire Hazard         | 1 |
| Reactivity          | 0 |
| Personal Protection | B |

## National Fire Protection Association (U.S.A.)

|        |   |                 |
|--------|---|-----------------|
| Health |  | Flammability    |
|        |   | Reactivity      |
|        |   | Specific hazard |

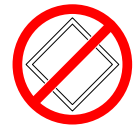
## WHMIS (Canada) (Pictograms)



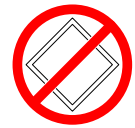
## DSCL (Europe) (Pictograms)



## TDG (Canada) (Pictograms)



## ADR (Europe) (Pictograms)



## Protective Equipment



Gloves.



Lab coat.



Not applicable.  
 Safety glasses.

**Section 16. Other Information****MSDS Code**

B0056

**References**

Not available.

**Other Special Considerations**

Uses: flavorings in foods and non-alcoholic beverages; fragrances; tincture; topical protectant; preserving ointment; topical antiseptic and to promote healing; as an inhalant for bronchitis; internally as an expectorant; protective agent for respiratory inflammations

**Notice to Reader**

*All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Saffire Blue Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.*