



## Material Safety Data Sheet

ALTHOUGH THE INFORMATION AND RECOMMENDATION SET FORTH HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE CORRECT AS OF THE DATE HEREOF, SILICASTAR INDUSTRIES MAKE NO REPRESENTATION AS TO THE COMPLETENESS OR ACCURACY. THEREOF, INFORMATION IS SUPPLIED UPON THE CONDITION THAT THE PERSON RECEIVING IT WILL MAKE THEIR OWN DETERMINATION AS TO ITS SUITABILITY FOR THEIR PURPOSE PRIOR TO USE. IN NO EVENT WILL SILICASTAR INDUSTRIES BE RESPONSIBLE FOR DAMAGES OF ANY NATURE WHATSOEVER RESULTING FROM THE USE OF OR RELIANCE UPON INFORMATION HEREIN SUPPLIED. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OF OR ANY OTHER NATURE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.

### I. PRODUCT IDENTIFICATION

<b>Company Name:</b> SilicaStar Industries, Inc.	<b>Product Name:</b> Gum Rosin – GR100
<b>Address:</b> 42536 Fern Circle Fremont, CA 94538, USA	<b>Date Prepared:</b> 03/2004
	<b>Prepared by:</b> SilicaStar Industries, Inc.
<b>Phone:</b> (510) 657-1774	<b>Email/URL:</b> <a href="mailto:info@silicastar.com">info@silicastar.com</a> <a href="http://www.silicastar.com">http://www.silicastar.com</a>

### II. COMPOSITION/COMPONENTS/HAZARDOUS

<b>Chemical Description:</b> Gum Rosin (All Grades), C <sub>20</sub> H <sub>30</sub> O <sub>2</sub>	<b>CAS Number</b> 8050-09-7	<b>Hazard Data:</b> ACGIH TLV n/a OSHA PEL n/a
<b>Synonym:</b> Tricyclic Monocarboxylic Acids		

### III. PHYSICAL DATA

<b>Boiling Point (100 mm Hg):</b> 318 °C (604 °F)	<b>Specific Gravity:</b> 1.07±0.01 (WW grade 1.08)
<b>Vapor Pressure (mm HG):</b> n/a	<b>Melting Point (°C):</b> 70° C - 80° C (WW grade 76°C)
<b>Vapor Density (AIR = 1):</b> n/a	<b>Evaporation Rate (Butyl Acetate = 1)”</b> n/a
<b>Water Solubility:</b> Negligible	<b>Acid number (mg KOH/g):</b> 164-166 (WW grade 166)
<b>Appearance:</b> Solid	<b>Color:</b> Amber color
	<b>Odor:</b> Rosin odor/Odorless when cold.

### IV. FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point (Method Used):</b> Above (204 °C) 400°F (COC)	<b>Flammable Limits:</b> Not Available	<b>LEL:</b> n/a	<b>UEL:</b> n/a
<b>Extinguishing Media:</b> Water Fog/Spray, Regular Foam, CO <sub>2</sub> , Dry Chemical (Class B)			
<b>NFPA Codes:</b> Health: 0 Fire: 1 Reactivity: 0			



<b>(Degree of Hazard: 4=Extreme 3=High 2=Moderate 1=Slight 0=Insignificant)</b>	
<b>Special Fire Fighting Procedures:</b> As with any fire situation, full face, self-contained breathing apparatus and appropriate clothing should be worn.	
<b>Unusual Fire &amp; Explosion Hazards:</b> Flammable when finely divided and suspended in air. <b>CAUTION:</b> Do <u>NOT</u> use crushed gum rosin in "hot-melt" adhesive applications without special precautions.	
<b>DOT Hazard Class:</b> Non-hazardous, non-regulated. Class 65 for bags & drums.	
<b>V. HEALTH HAZARD INFORMATION</b>	
<b>Carcinogenicity:</b> no	<b>NTP:</b> n/a <b>OSHA:</b> n/a <b>IARC:</b> n/a
<b>Signs and Symptoms of Acute and Chronic Exposure:</b>	Probably not toxic. Breathing heavy concentrations of dust should be avoided. Respirators are indicated for prolonged contact with heavy dust concentrations.
<b>Primary Routes of Entry:</b>	When in dust form, by inhalation and absorption.
<b>Medical Conditions Aggravated:</b>	Irritation can occur to eyes, skin and upper respiratory system if material is in a dust form.
<b>Routes of Exposure</b>	<b>Emergency and First Aid Procedures</b>
<b>Skin Contact:</b>	Wash affected area with copious amounts of soap and water. <b>MOLTEN RESINS:</b> If molten material comes in contact with the skin, cool under a running stream of water. <b>DO NOT</b> attempt to remove the resin from the skin. Removal could result in severe tissue damage. Get medical attention.
<b>Eye Contact:</b>	Remove any contact lenses at once. Flush eyes well with large quantities of water for at least 15 minutes. See a physician immediately.
<b>Inhalation:</b>	If symptoms of overexposure are experienced, evacuate to fresh air. If symptoms persist, seek medical attention.
<b>Accidental Ingestion:</b>	<b>DO NOT</b> induce vomiting. Call a physician. <b>NOTE TO PHYSICIAN:</b> No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.
<b>VI. REACTIVITY DATA</b>	
<b>Stability:</b> Stable under ordinary conditions of use and storage.	<b>Conditions to Avoid:</b> n/a
<b>Hazardous Polymerization:</b> Will not occur	<b>Incompatibilities:</b> Avoid strong oxidizing agents.
<b>Hazardous Decomposition Products:</b>	Thermal degradation produces carbon oxides.
<b>VII. SAFE HANDLING AND USE</b>	
<b>Steps to be Taken in Case Material is Released or Spilled:</b> If material is not contaminated, sweep and scoop into clean containers for use. If contaminated, sweep up and scoop into containers for disposal.	
<b>Waste Handling &amp; Disposal Method:</b> Dispose of in accordance with Federal, State and Local environmental regulations. This product does not constitute a hazardous waste problem.	
<b>VIII. SPECIAL PROTECTION AND CONTROL METHODS</b>	
<b>Respiratory:</b> Not normally needed in well ventilated areas. If dust concentration is high, use NIOSH approved mask if dust is present	<b>Ventilation:</b> General mechanical ventilation (to reduce fumes).
<b>Protective Gloves:</b> Neoprene or Rubber.	<b>Eye Protection:</b> OSHA-approved safety glasses with side shields.
<b>Other Protective Clothing or Equipment:</b> Eye bath and safety shower.	



## IX. TRANSPORTATION AND SHIPPING REQUIREMENTS

US DOT:	No information available
Canadian TDG:	Shipping Name: CHLOROTOLUENES Hazard Class: 3 UN Number: UN2238

## X. STORAGE

**Handling and Storage Precautions:** Store in sealed containers to preserve quality. Store in closed containers away from heat or sources of ignition and oxidizing materials. Protect against physical damage to containers. Avoid inhalation of dust and contact with skin and eyes. May form Flammable Dust/Air mixtures.

**Control Inventory:** Use oldest material first.

## XI. ENVIRONMENTAL AND REGULATORY DATA

The following environmental and regulatory data are provided to assist users of this product in defining their regulatory environmental compliance obligations. Most resins produced from rosin are biologically inert and have a low order of toxicity. The extended use of these materials in printed inks has produced no ill effects from oral or dermal toxicity and meet FDA requirements for use in food packaging and as components of chewing gum, soft drinks, citrus coatings, flavoring compounds, rubber goods and many others.

SARA TITLE III (See footnotes):

SEC. 304 EHS RQ (lbs)	SEC. 302 EHS TPQ (lbs)	SEC. 311/312 Hazard Category	SEC. 313 Toxic Chemical (Yes, No)
N/A	N/A	NHH, NPH	NO

**CERCLA (40 CFR 302.4 HAZARDOUS SUBSTANCE & REPORTABLE QUANTITIES):**

This product does NOT contain any hazardous substances listed in 40 CFR 302.4.

**CALIFORNIA PROP. 65**

Resins based on rosin-derived resins are NOT listed on California's Prop. 65 toxic substance list.

**RCRA INFORMATION:**

This product is not listed in federal hazardous waste regulation 40 CFR 261.33, paragraph (e) or (f), i.e., chemical products that are considered hazardous if they become wastes. It does not exhibit any of the hazardous characteristics listed in 40 CFR 261, Subpart C. State or local hazardous waste regulations may apply if they are different from the federal regulation.

**ODC STATUS:**

The components of this product are NOT found to contain any ozone depleting compounds.

**TSCA STATUS:**

The components of this product are included on the EPA TSCA Chemical Substance Inventory.

**DSL STATUS:**

The components of this product are included on Canada's Domestic Substance List.

**CANADIAN WHMIS:**

The components of this product are classified as a NON-CONTROLLED PRODUCT according to our interpretation of the amendments to the Hazardous Products Acts.

**FOOTNOTES:**

SEC. 302 — Threshold Planning Quantity, Extremely Hazardous Substance (EHS) (40 CFR 355 Emergency Planning and Notification regulations)

N/A: This chemical is not an EMS. Therefore, there is no Threshold Planning Quantity (TPQ).

SEC. 304 — Reportable Quantity for Releases of an EMS (40 CFR 355, Appendix A)

N/A: This chemical is not an EMS. Therefore, there is no Reportable Quantity (RQ).

SEC. 311/312 — 40 CFR 370 Hazardous Chemical Reporting Requirements “Hazard Categories”

HC-1 Immediate (acute) health hazard

HC-2 Delayed (chronic) health hazard

HC-3 Fire hazard

HC-4 Sudden release of pressure hazard

HC-5 Reactive hazard

NHH-Not a health hazard/NPH-Not a physical hazard

SEC. 313 — 40 CFR 372 Toxic Chemical Release Reporting Requirements

NO: This component is NOT subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372 Toxic Chemical Reporting requirements.

YES: This component is subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372 Toxic Chemical Reporting requirements. Percent composition (or estimated range) is listed above.

N/A: This product is a mixture. As such, it is not listed as a Toxic Chemical under 40 CFR 372, Sect. 313 reporting requirements. Reportable constituents are listed individually where they exceed threshold concentration limits.