



Prepared according to 29CFR 1910.1200.

1	<b>Chemical Product and Company Identification</b>
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*Joe Gibbs Driven Racing Oil  
13415 Reese Blvd., West  
Huntersville, NC 28078  
Phone: (866) 611-1820*

**Product Trade Name** ASSEMBLY GREASE  
**CAS Number** Not applicable for mixtures.  
**Synonyms** None.  
**Generic Chemical Name** Mixture.  
**Product Type** Multipurpose.  
**Preparation/Revision Date** 17 February 2006  
**Transportation Emergency Phone No.** (CHEMTREC ) 1-800-424-9300. Outside the U.S. (703) 527-3887  
**MSDS No.** 23928114-1713132-101610-811103

2	<b>Hazards Identification</b>
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**Appearance** Brown liquid.  
**Odor** Mild  
**Principal Hazards** **WARNING.**  

- CAUSES EYE IRRITATION.

This material is considered hazardous by the OSHA Hazard Communication Standard 29CFR 1910.1200.  
 See Section 11 for complete health hazard information.

3	<b>Composition/Information on Ingredients</b>
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**Hazardous Ingredients**

Comp	CAS No.	Percentage (by wt.)	Carcinogen
Calcium sulfonate	Confidential.	From 50 to 59.9 percent	N/E
Alkenyl carboxylic acid	Confidential.	From 1 to 4.9 percent	N/E

(N/E) - None established

4	<b>First Aid Measures</b>
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**Eyes** Flush immediately with water for at least 15 minutes. Get immediate medical attention.

<b>Skin</b>	Wash with soap and water. Get medical attention if irritation develops. Launder contaminated clothing before reuse.
<b>Inhalation</b>	Remove exposed person to fresh air if adverse effects are observed.
<b>Oral</b>	DO NOT INDUCE VOMITING. If conscious, give 2 glasses of water. Get immediate medical attention.
<b>Additional Information</b>	Note to physician: Treat symptomatically.

<b>5</b>	<b>Fire Fighting Measures</b>
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<b>Flash Point</b>	142 °C, 287.6 °F PMCC (Typical)
<b>Extinguishing Media</b>	CO2, dry chemical, or foam. Water can be used to cool and protect exposed material.
<b>Firefighting Procedures</b>	Recommend wearing self-contained breathing apparatus. Water may cause splattering.
<b>Unusual Fire &amp; Explosion Hazards</b>	Toxic fumes, gases or vapors may evolve on burning.

<b>6</b>	<b>Accidental Release Measures</b>
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<b>Spill Procedures</b>	Personal Protective Equipment must be worn, see Personal Protection Section for PPE recommendations. Ventilate area if spilled in confined space or other poorly ventilated areas. Prevent entry into sewers and waterways. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material. Check under Transportation and Labeling (DOT/CERCLA) and Other Regulatory Information Section (SARA) for hazardous substances to determine regulatory reporting requirements for spills.
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<b>7</b>	<b>Handling and Storage</b>
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<b>Pumping Temperature</b>	Not determined.
<b>Maximum Handling Temperature</b>	Not determined.
<b>Handling Procedures</b>	Keep containers closed when not in use. Wash thoroughly after handling. Empty container contains product residue which may exhibit hazards of product.
<b>Maximum Storage Temperature</b>	Not determined.
<b>Storage Procedures</b>	No special storage precautions required.
<b>Loading Temperature</b>	Not determined.

<b>8</b>	<b>Exposure Controls/Personal Protection</b>
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<b>Exposure Limits</b>	None established
<b>Other Exposure Limits</b>	Contains mineral oil. Under conditions which may generate mists, observe the OSHA PEL of 5 mg per cubic meter, ACGIH STEL of 10 mg per cubic meter.
<b>Engineering Controls</b>	Use local exhaust ventilation to control mists or vapors.
<b>Gloves Procedures</b>	Nitrile.
<b>Eye Protection</b>	Safety glasses. If potential for splash or mist exists, wear chemical goggles or faceshield.
<b>Respiratory Protection</b>	Use NIOSH/MSHA approved full face respirator with a combination organic vapor and dust/mist cartridge if the recommended exposure limit is exceeded.
<b>Clothing Recommendation</b>	Long sleeve shirt is recommended.

<b>9</b>	<b>Physical and Chemical Properties</b>
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<b>Flash Point</b>	142 °C, 287.6 °F PMCC (Typical)
<b>Upper Flammable Limit</b>	Not determined.
<b>Lower Flammable Limit</b>	Not determined.
<b>Autoignition Point</b>	Not determined.
<b>Explosion Data</b>	Material does not have explosive properties.
<b>Vapor Pressure</b>	Not determined.
<b>pH</b>	Not determined.
<b>Specific Gravity</b>	1.18 (15.6 °C)
<b>Bulk Density</b>	Not determined.
<b>Water Solubility</b>	Insoluble.
<b>Percent Solid</b>	Not determined.
<b>Percent Volatile</b>	Unknown.
<b>Percent VOC</b>	Not determined.
<b>Vapor Density</b>	Not determined.
<b>Evaporation Rate</b>	Not determined.
<b>Odor</b>	Mild
<b>Appearance</b>	Brown liquid.
<b>Viscosity</b>	850 Centistokes (40 °C) 90 Centistokes (100 °C)
<b>Odor Threshold</b>	Unknown.
<b>Boiling Point</b>	Not determined.
<b>Pour Point Temperature</b>	-27 °C, -17 °F
<b>Melting / Freezing Point</b>	Not determined.

*The above data are typical values and do not constitute a specification. Vapor pressure data are calculated unless otherwise noted.*

<b>10</b>	<b>Stability and Reactivity</b>
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<b>Stability</b>	Material is normally stable at moderately elevated temperatures and pressures.
<b>Decomposition Temperature</b>	Not determined.
<b>Incompatibility</b>	None known, avoid contact with reactive chemicals.
<b>Polymerization</b>	Will not occur.
<b>Thermal Decomposition</b>	Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. Under combustion conditions, oxides of the following elements will be formed: calcium, sulfur.
<b>Conditions to Avoid</b>	Not determined.

<b>11</b>	<b>Toxicological Information</b>
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**-- ACUTE EXPOSURE --**

<b>Eye Irritation</b>	Moderate to strong eye irritation. Based on data from components or similar material.
<b>Skin Irritation</b>	Not expected to be a primary skin irritant. Based on data from components or similar materials. Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying, and cracking of the skin.
<b>Respiratory Irritation</b>	If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract similar to that observed with mineral oil. Based on data from components or similar materials. Under good industrial hygiene practices where all exposure limits are observed, respiratory irritation should not be a problem.

<b>Dermal Toxicity</b>	The LD50 in rabbits is > 2000 mg/Kg. Based on data from components or similar materials.
<b>Inhalation Toxicity</b>	No data available to indicate product or components may be a toxic inhalation hazard.
<b>Oral Toxicity</b>	The LD50 in rats is > 5000 mg/kg. Based on data from components or similar materials.
<b>Dermal Sensitization</b>	No data available to indicate product or components may be a skin sensitizer.
<b>Inhalation Sensitization</b>	No data available to indicate product or components may be respiratory sensitizers.

**-- CHRONIC EXPOSURE --**

<b>Chronic Toxicity</b>	No data available to indicate product or components present at greater than 1% are chronic health hazards.
<b>Carcinogenicity</b>	This product is formulated with mineral oils which are considered to be severely refined and not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 test.
<b>Mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
<b>Reproductive Toxicity</b>	No data available to indicate either product or components present at greater than 0.1% that may cause reproductive toxicity.
<b>Teratogenicity</b>	No data available to indicate product or any components contained at greater than 0.1% may cause birth defects.

**-- ADDITIONAL INFORMATION --**

<b>Other</b>	No other health hazards known.
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<b>12</b>	<b>Ecological Information</b>
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**-- ENVIRONMENTAL TOXICITY --**

<b>Freshwater Fish Toxicity</b>	The acute LC50 is 100 - 1000 mg/L based on component data.
<b>Freshwater Invertebrates Toxicity</b>	The acute EC50 is > 1000 mg/L based on component data.
<b>Algal Inhibition</b>	The acute EC50 is 100 - 1000 mg/L based on component data.
<b>Saltwater Fish Toxicity</b>	Not determined.
<b>Saltwater Invertebrates Toxicity</b>	Not determined.
<b>Bacteria Toxicity</b>	The acute EC50 for bacteria is > 1000 ppm based on component data.
<b>Miscellaneous Toxicity</b>	Not determined.

**-- ENVIRONMENTAL FATE --**

<b>Biodegradation</b>	At least 25% of the components in this product show moderate biodegradation based on OECD 301-type test data. At least 25% of the components in this product show limited biodegradation based on OECD 302-type test data.
<b>Bioaccumulation</b>	1 - 10% of the components potentially bioconcentrate, based on octanol/water coefficients.
<b>Soil Mobility</b>	Not determined.

<b>13</b>	<b>Disposal Consideration</b>
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<b>Waste Disposal</b>	This material, if discarded, is not a hazardous waste under RCRA Regulation 40 CFR 261.
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<b>14</b>	<b>Transport Information</b>
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<b>ICAO/IATA (US)</b>	Not regulated.
<b>ICAO/IATA (International)</b>	Not regulated.

<b>IMDG</b>	Not regulated.
<b>IMDG EMS Fire</b>	Not applicable.
<b>IMDG EMS Spill</b>	Not applicable.
<b>IMDG MFAG</b>	Not applicable.
<b>IMO Marine Vessel</b>	DO NOT TRANSPORT - ADDITIONAL INFORMATION REQUIRED
<b>USCG Compatibility</b>	Not determined.
<b>U.S. DOT Bulk</b>	Not regulated.
<b>U.S. DOT Non-Bulk</b>	Not regulated.
<b>DOT NAERG</b>	Not applicable.
<b>TDG Bulk</b>	Not regulated.
<b>TDG Non-Bulk</b>	Not regulated.
<b>Mexico</b>	Not regulated.
<b>Mexico Non-Bulk</b>	Not regulated.
<b>Bulk Quantity</b>	85000 liters, 22457 gal.
<b>Non-Bulk Quantity</b>	207.8 liters, 55 gal.

*Review classification requirements before shipping materials at elevated temperatures.*

<b>15</b>	<b>Regulatory Information</b>
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**-- Global Chemical Inventories --**

<b>USA</b>	All components of this material are on the US TSCA Inventory or are exempt.
<b>Other TSCA Reg.</b>	None known.
<b>EU</b>	All components are in compliance with the EC Seventh amendment Directive 92 /32/EEC.
<b>Japan</b>	All components are in compliance with the Chemical Substances Control Law of Japan.
<b>Australia</b>	All components are in compliance with chemical notification requirements in Australia.
<b>Canada</b>	All components are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List.
<b>Switzerland</b>	All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.
<b>Korea</b>	All components are in compliance in Korea.
<b>Philippines</b>	All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).
<b>China</b>	All components of this product are listed on the Inventory of Existing Chemical Substances in China.

**-- Other U.S. Federal Regulations --**

<b>SARA Ext. Haz. Subst.</b>	This product does not contain greater than 1.0% of any chemical substance on the SARA Extremely Hazardous Substances list.
<b>SARA Section 313</b>	This product does not contain greater than 1.0% (greater than 0.1% for carcinogenic substance) of any chemical substances listed under SARA Section 313.

<b>SARA 311 Classifications</b>	Acute Hazard	Yes
	Chronic Hazard	No
	Fire Hazard	No
	Reactivity Hazard	No

<b>CERCLA Hazardous Substances</b>	None known.
<b>FDA Approval</b>	Not applicable.

**-- State Regulations --**

**Cal. Prop. 65** This product contains the following chemical(s) known to the state of California to cause cancer and/or birth defects based on maximum impurity levels of components: < 1 ppm cadmium < 1 ppm arsenic < 1 ppm lead

**-- Product Registrations --**

**U.S. Fuel Registration** Not applicable.  
**U.S. Dept of Agriculture** This product has not been filed with the USDA to support H2 approvals.  
**NSF Nonfood Compounds Registration** Not determined.  
**Finnish Registration Number** Not Registered  
**Swedish Registration Number** Not Registered  
**Norwegian Registration Number** Not Registered  
**Danish Registration Number** Not Registered  
**Swiss Registration Number** Not Registered  
**Italian Registration Number** Not Registered  
**Korean Registration Number** Not Registered  
**New Zealand Registration Number** Not Registered

**-- Other / International --**

**TDG Regulated Limit.** None known.  
**U.S. Tariff Heading Number** 3811.21.00.00  
**Schedule B Number** 3811.21.0000

<b>16</b>	<b>Other Information</b>
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**US NFPA Codes**

Health	Fire	Reactivity	Special
2	1	0	N/E

(N/E) - None established

**HMIS Codes**

Health	Fire	Reactivity
2	1	0

**Precautionary Labels**

**WARNING.**

- **CAUSES EYE IRRITATION.**

**Revision Indicators**

This MSDS has no revisions since 17 February 2006

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*Users Responsibility/Disclaimer of Liability: The information set forth herein is based on our current knowledge, and is intended to describe the product solely with respect to health, safety and the environment. As such, it must not be interpreted as a guarantee of any specific property of the product. As a result, the customer shall be solely responsible for deciding whether said information is suitable and beneficial.*