

# Material Safety Data Sheet

# GCB-LIQUID, pt 1

Complies with OSHA's Hazard Communication Standard 29 CFR 1910.1200.

# GOODSON

**Tools and Supplies for Engine Builders**

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Toll-Free 1-800-533-8010 • Local 507-452-1830 • www.goodson.com

**DATE OF PREPARATION:** October, 2009

## 1. IDENTIFICATION

**Part No.:** GCB-LIQUID

**Description:** CC Measuring Liquid Concentrate

**CAS No.:** Not applicable for mixtures.

**Synonyms:** None

**Generic Chemical Name:** Mixture

**Product Type:** Metalworking fluid additive.

**Transportation Emergency:** FOR TRANSPORT EMERGENCY call CHEMTREC 1-703-527-3887 (outside the U.S.), 800-424-9300 in the U.S.

**Emergency Phone:** 800-688-4005 (24 hours)

## 2. HAZARDOUS INGREDIENTS

**Appearance:** Clear liquid

**Odor:** Ammonia

**Principal Hazards:** Caution.

Aerosols or dusts may be harmful if inhaled.

May cause eye irritation.

Prolonged or repeated contact may cause dermatitis.

May cause chronic health effects.

**Target Organs:** Kidney, Liver

See Section 11 for complete health hazard information.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Hazardous Ingredients:**

<u>Comp</u>	<u>CAS No.</u>	<u>% by Wt</u>	<u>Carcinogen</u>
Triethanolamine	102-71-6	From 5 to 9.9%	N/E
Polyelher	Confidential	From 0.1 to 0.9%	N/E
Ethanolamine	141-43-5	<0.1%	N/E
Sodium pyrithione	Confidential	<0.1%	N/E

N/E = None established

## 4. FIRST AID MEASURES

**Eyes:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.

**Skin:** Wash with soap and water. Remove contaminated clothing. If skin irritation occurs, get medical attention. Launder contaminated clothing before reuse.

**Inhalation:** Remove exposed person to fresh air if adverse effects are observed.

**Oral:** DO NOT INDUCE VOMITING. Get immediate medical attention.

**Additional Information:** Get medical attention advice if you feel unwell.

## 5. FIRE FIGHTING MEASURES

**Flash Point:** Not applicable.

**Extinguishing Media:** CO<sub>2</sub>, dry chemical, foam, water spray, water fog.

**Firefighting Procedures:** Recommend wearing self-contained breathing apparatus.

**Unusual Fire & Explosion Hazards:** Material will not burn. Container may rupture on heating.

## 6. ACCIDENTAL RELEASE MEASURES

**Spill Procedures:** 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, dispose of in accordance with all federal, state, and local environmental regulation. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material.

## 7. HANDLING AND STORAGE

**Pumping Temperature:** Not determined.

**Maximum Handling Temperature:** Not determined.

**Handling Procedures:** Open container in a well ventilated area. Avoid breathing vapors. Keep containers closed when not in use. Do not discharge into drains or the environment, dispose to an authorized waste collection point. Use appropriate containment to avoid environmental contamination. Do not use sodium nitrite or other nitrosating agents in formulations containing this product. Suspect cancer causing nitrosamines could be formed. Do not breath dust, fume, gas, mist, vapors or spray. Wash thoroughly after handling. Empty container contains product residue which may exhibit hazards of product.

**Maximum Storage Temperature:** 49°C, 120.2°F

**Storage Procedures:** No special storage precautions required.

**Loading Temperature:** Not determined.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<u>Comp</u>	Exposure Guidelines					
	OSHA		ACGIH		Other	
	<u>TWA</u>	<u>STEL</u>	<u>TWA</u>	<u>STEL</u>	<u>TWA</u>	<u>STEL</u>
Trichanolamine	N/E	N/E	5 mg/cu.M	N/E	N/E	N/E
Ethanolamine	3 ppm	N/E	3 ppm	6 ppm	N/E	N/E

(s) = Skin Exposure

(p) = Proposed limit

(c) = Ceiling exposure

(l) = Recommended exposure limit

(u) = Supplier recommended exposure limit (N/E) = None established

**Other Exposure Limits:** None known.

**Engineering Controls:** Use with adequate ventilation

**Gloves Procedures:** Use good industrial hygiene practices to avoid skin contact. If contact with the material may occur wear chemically protective gloves.

**Eye Protection:** Monogoggles.

**Respiratory Protection:** Use NIOSH/MSHA approved full face respirator with a combination organic vapor and high efficiency filter cartridge if the recommended exposure limit is exceeded. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites. Consult with an industrial hygienist to determine the appropriate respiratory protection for your specific use of this material. A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator.

**Clothing Recommendation:** Wear a chemically protective apron when contact with material may occur. When working with heated material, wear an insulated apron or an insulated chemical protective suit. Use neoprene or nitrile rubber boots when necessary to avoid contaminating shoes. Do not wear rings, watches or similar apparel that could entrap the material and cause a skin reaction.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Flash Point:** Not Applicable.

**Upper Flammable Limit:** Not Determined.

**Lower Flammable Limit:** Not Determined.

**Autoignition Point:** Not Determined.

**Explosion Data:** Material does not have explosive properties.

**Vapor Pressure:** Not Determined.

**pH:** 9.6

**Specific Gravity:** 1.03 (15.6°C).

**Bulk Density:** 8.62 Lb/gal, 1.03 Kg/L.

**Water Solubility:** Soluble.

**Percent Solid:** Not Determined.

**Percent Volatile:** Unknown.

**Volatile Organic Compound:** Not Determined.

**Vapor Density:** Not Determined.

**Evaporation Rate:** Not Determined.

**Odor:** Ammonia.

**Appearance:** Clear Liquid.

**Viscosity:** Unknown.

**Odor Threshold:** Unknown.

**Boiling Point:** 100°C, 212°F (typical).

**Pour Point Temperature:** Not Determined.

**Melting/Freezing Point:** 0°C, 32°F.

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

## 10. STABILITY AND REACTIVITY

**Stability:** Material is normally stable at moderately elevated temperatures and pressures.

**Decomposition Temperature:** Not determined.

**Incompatibility:** Strong oxidizing agents. This material contains amine. Do not add nitrite or other nitrosating agents due to the potential for nitrosamine formation.

**Polymerization:** Will not occur.

**Thermal Decomposition:** Thermal decomposition and combustion are not expected to occur except under extreme conditions.

**Conditions to Avoid:** Not determined.

## 11. TOXICOLOGICAL INFORMATION

### -ACUTE EXPOSURE-

**Eye Irritation:** Weak to moderate eye irritant. Does not meet Canadian D2B or EU R36 criteria. Based on data from components and similar materials.

**Skin Irritation:** Not expected to be a primary skin irritant. Based on data from components or similar materials. Prolonged or repeated contact may cause dermatitis.

**Respiratory Irritation:** If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract. Based on data from components and similar materials.

**Dermal Toxicity:** The following estimated LD 50 is based on incomplete data on components. The LD 50 in rabbits is > 2000 mg/Kg. Based on data from components or similar materials.

**Inhalation Toxicity:** Aerosols of this material may be toxic by inhalation. Based on data from components or similar materials.

**Oral Toxicity:** The following estimated LD 50 is based on incomplete data on components. The LD 50 in rats is > 5000 mg/kg. Based on data from components or similar materials.

**Dermal Sensitization:** There are literature reports that skin contact with triethanolamine may cause sensitization and an allergic skin reaction in a small portion of individuals.

**Inhalation Sensitization:** No data available to indicate product or components may be respiratory sensitizers.

### -CHRONIC EXPOSURE-

**Chronic Toxicity:** Repeated overexposure to alkanolamines may cause liver and kidney damage.

**Carcinogenicity:** No data available to indicate any components present at greater than 0.1% may present a carcinogenic hazard.

**Mutagenicity:** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Reproductive Toxicity:** No data available to indicate, either product or components present at greater than 0.1% that may cause reproductive toxicity.

**Teratogenicity:** No data available to indicate product or any components contained at greater than 0.1% may cause birth defects.

### -ADDITIONAL INFORMATION-

**Other:** No other health hazards known.

## 12. ECOLOGICAL INFORMATION

### ENVIRONMENTAL TOXICITY

**Freshwater Fish Toxicity:** The acute LC50 is 10 - 100 mg/L based on component data.

**Freshwater Invertebrates Toxicity:** Not determined.

**Algal Inhibition:** Not determined.

**Saltwater Fish Toxicity:** Not determined.

**Saltwater Invertebrates Toxicity:** Not determined.

**Bacteria Toxicity:** Not determined.

**Miscellaneous Toxicity:** Not determined.

### ENVIRONMENTAL FATE

**Biodegradation:** At least 75% of the components in this product show rapid biodegradation based on OECD 301 - type test data. At least 75% of the components in this product show rapid biodegradation based on OECD 302 - type test data.

**Bioaccumulation:** 25% or greater of the components display no potential to bioconcentrate.

**Soil Mobility:** Not determined.

**DATE OF PREPARATION:** October, 2009

## 1. IDENTIFICATION

**Part No.:** GCB-LIQUID, Part 2

**Description:** CC Measuring Liquid Concentrate, Detergent Amber      **Chemical Name:** Blend

**Chemical Family:** Mixture

**Transportation Emergency:** FOR TRANSPORT EMERGENCY call CHEMTREC 1-703-527-3887 (outside the U.S.), 800-424-9300 in the U.S.

**Emergency Phone:** 800-688-4005 (24 hours)

### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal:** The material, if discarded, is not a hazardous waste under RCRA Regulation 40 CFR 261. Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

### 14. TRANSPORT INFORMATION

**ICAO/IATA I:** Not regulated.

**ICAO/IATA II:** Not regulated.

**IMDG:** Not regulated.

**IMDG EMS Fire:** Not applicable.

**IMDG EMS Spill:** Not applicable.

**IMDG MFAG:** Not applicable.

**MARPOL Annex II:** Not determined.

**USCG Compatibility:** Not determined.

**U.S. DOT Bulk:** Not regulated.

**U.S. DOT Non-Bulk:** Not regulated.

**DOT NAERG:** Not applicable.

**TDG Bulk:** Not regulated.

**TDG Non-Bulk:** Not regulated.

**Mexico:** Not regulated.

**Mexico Non-Bulk:** Not regulated.

**Bulk Quantity:** 85000 liters, 22457 gal.

**Non-Bulk Quantity:** 207.8 liters, 55 gal.

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

### 15. REGULATORY INFORMATION

#### Global Chemical Inventories

**USA:** All components of this material are on the US TSCA Inventory or are exempt.

**Other TSCA Reg:** Section 8d (Tricthanolamine).

**EU:** All components are in compliance with the EC Seventh amendment Directive 92 / 32/EEC.

**Japan:** This product requires notification in Japan.

**Australia:** This product requires notification before sale in Australia.

**New Zealand:** May require notification before sale under New Zealand regulations.

**Canada:** This material contains a chemical which must be notified and tracked by all Canadian Importers of Record as required by the Canadian Environmental Protection Agency. This material or products containing this material may be exported to Canada in limited quantities. Please contact the Lubrizol Product Safety and Compliance Department for details. (440-943-1200)

**Switzerland:** All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.

**Korea:** All components are in compliance in Korea.

**Philippines:** This product requires notification before sale in the Philippines.

**China:** All components of this product are listed on the Inventory of Existing Chemical Substances in China.

#### Other U.S. Federal Regulations

**SARA Ext. Haz. Subst.:** This product does not contain greater than 1.0% of any chemical substance on the SARA Extremely Hazardous Substances list.

**SARA Section 313:** This product does not contain greater than 1.0% (greater than .01% for carcinogenic substance) of any chemical substances listed under SARA Section 313.

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

**CERCLA Hazardous Substances:** None known.

**FDA Approval:** 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: 9 ppm formaldehyde, CAS no. 50-00-0

#### 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:** This product has not been filed with the NSF to support H1 or H2 approvals.

**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.

#### Other / International

**TDG Regulated Limit:** None known.

## 16. OTHER INFORMATION

### US NFPA Codes:

**Health: 2**      **Fire: 0**      **Reactivity: 0**      **Special: N/E**

(N/E = None established)

### HMIS Codes:

**Health: 2\***      **Fire: 0**      **Reactivity: 0**

### Precautionary Labels      **Caution.**

Aerosols or dusts may be harmful if inhaled.  
May cause eye irritation.  
Prolonged or repeated contact may cause dermatitis.  
May cause chronic health effects.

**As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state and local regulations remains the responsibility of the user.**

# Material Safety Data Sheet

# GCB-LIQUID, pt 2

## 2. HAZARDOUS INGREDIENTS

Complies with OSHA's Hazard Communication

Standard 29 CFR 1910.1200.

CAS Number

PEL

Acid Violet 17 <1%

4129-84-4

None as per 29CFR part

1910.1200 or Sara Title III

HMS HAZARD RATINGS (if applicable):

## 3. PHYSICAL DATA

**Appearance:** Brown powder, no characteristic odor.

**Melting Point:** N/A

**Vapor Pressure:** N/A

**Specific Gravity:** Approximately 1

**Solubility in Water:** Complete

**Boiling Point:** N/A

**Freezing Point:** N/A

**Vapor Density (Air=1):** N/A

**pH:** N/A

**Volatility:** N/A

## 4. FIRE AND EXPLOSION DATA

**Flash Point:** N/A

**Extinguishing Media:** Water fog, CO2, or Dry Chemical.

**Fire Fight Procedures:** Fire fighters should be equipped with self contained breathing apparatus and turnout gear.

**Unusual Fire Hazard:** Adequate ventilation and clean up must be maintained to minimize dust accumulation. May form explosive dust/air mixture.

## 5. REACTIVITY DATA

**Stability:** Stable

**Conditions to Avoid:** N/A

**Hazardous Polymerization:** Does not occur

**Polymerization to Avoid:** N/A

**Incompatibility:** Unknown

**Decomposition:** Carbon monoxide, Carbon dioxide & Oxides of Nitrogen.

## 6. HEALTH DATA

**Threshold Limit Value:** Not Established.

**Over Exposure Effects:** Contact with eyes may result in severe irritation. Contact with skin may result in irritation. Ingestion may result in gastric disturbances. Inhalation of dust may irritate respiratory tract.

## 7. FIRST AID

**First Aid Procedures:** Flush eyes with flowing water at least 15 minutes. If irritation develops, consult a physician. Wash affected skin areas thoroughly with soap and water. If irritation develops, consult a physician. Remove and launder contaminated clothing before reuse.

If swallowed, dilute with water and induce vomiting. Get immediate medical attention. If inhaled, move to fresh air. Aid in breathing, if necessary, and get medical attention.

**\*\*NEVER GIVE FLUIDS OR INDUCE VOMITING IF PATIENT IS UNCONSCIOUS OR HAS CONVULSIONS.\*\***

## 8. EMPLOYEE PROTECTION

**Respiratory Protection:** NIOSH/OSHA approved dust respirator as necessary.

**Protective Gloves:** To prevent skin contact.

**Eye Protection:** Goggles.

**Additional Measures:** Eye wash fountains should be easily accessible.

**Handling and Storage:** Keep away from excessive heat and moisture. Keep containers closed.

**Ventilation:** Local exhaust to control dusts.

## 9. SPILL AND DISPOSAL DATA

**Spill:** Spills should be contained and placed in suitable containers.

**Waste Disposal:** Do not discharge into sewers or waterways. Dispose of in accordance with local regulations.

## 10. TRANSPORTATION DATA

**Proper Shipping Name:** Ink material

**Hazard Class and Label:** Mfr Label Only

**UN Number:** N/A

**Reportable Quantity:** N/A

## 11. OTHER INFORMATION

# GOODSON

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All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate, Goodson Tools and Supplies makes no representations as to its accuracy or sufficiency. Conditions of use are beyond Goodson Tools and Supplies control. Therefore, users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes, and they assume all risks of their use, handling, and disposal of the product or from the publication or use of, or reliance upon, information contained herein. This information relates only to the product designated herein and does not relate to its use in combination with an other material or in any other process.

# Material Safety Data Sheet

GCB-LIQUID, pt 3

Complies with OSHA's Hazard Communication Standard 29 CFR 1910.1200.

**GOODSON**  
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**DATE OF PREPARATION:** October, 2009

## 1. IDENTIFICATION

**Part No.:** GCB-LIQUID, Part 3

**Description:** CC Measuring Liquid Concentrate, Acid Blue

**Chemical Name:** Acid Blue 25 CAS #6408-78-2

**Chemical Family:** Anthraquinone

**Transportation Emergency:** FOR TRANSPORT EMERGENCY call CHEMTREC 1-703-527-3887 (outside the U.S.), 800-424-9300 in the U.S.

**Emergency Phone:** 800-688-4005 (24 hours)

## 2. HAZARDOUS INGREDIENTS

Hazardous Ingredient	%	CAS Number	PEL
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None as per 29CFR part

1910.1200 or Sara Title III

HMIS HAZARD RATINGS (if applicable):

Health = 1      Fire = 1      Reactivity = 1

## 3. PHYSICAL DATA

**Appearance:** Blue powder, no characteristic odor.

**Boiling Point:** N/A

**Melting Point:** N/A

**Freezing Point:** N/A

**Vapor Pressure:** N/A

**Vapor Density (Air=1):** 35-.40

**Specific Gravity:** Approximately 1

**pH:** 7-8

**Solubility in Water:** 2.0 g/100 ml @ 25 C

**Volatility:** N/A

## 4. FIRE AND EXPLOSION DATA

**Flash Point:** N/A

**Extinguishing Media:** Water fog, CO2, or Dry Chemical.

**Fire Fight Procedures:** Fire fighters should be equipped with self contained breathing apparatus and turnout gear.

**Unusual Fire Hazard:** Adequate ventilation and clean up must be maintained to minimize dust accumulation. May form explosive dust/air mixture.

## 5. REACTIVITY DATA

**Stability:** Stable

**Conditions to Avoid:** N/A

**Hazardous Polymerization:** Does not occur

**Polymerization to Avoid:** N/A

**Incompatibility:** Unknown

**Decomposition:** Carbon monoxide, Carbon dioxide & Oxides of Nitrogen.

## 6. HEALTH DATA

**Threshold Limit Value:** Ingestion in rats, LD50>5,000 mg/kg

**Over Exposure Effects:** Contact with eyes may result in severe irritation. Contact with skin may result in irritation. Ingestion may result in gastric disturbances. Inhalation of dust may irritate respiratory tract.

## 7. FIRST AID

**First Aid Procedures:** Flush eyes with flowing water at least 15 minutes. If irritation develops, consult a physician. Wash affected skin areas thoroughly with soap and water. If irritation develops, consult a physician. Remove and launder contaminated clothing before reuse.

If swallowed, dilute with water and induce vomiting. Get immediate medical attention. If inhaled, move to fresh air. Aid in breathing, if necessary, and get medical attention.

**\*\*NEVER GIVE FLUIDS OR INDUCE VOMITING IF PATIENT IS UNCONSCIOUS OR HAS CONVULSIONS.\*\***

## 8. EMPLOYEE PROTECTION

**Respiratory Protection:** NIOSH/OSHA approved dust respirator as necessary.

**Protective Gloves:** To prevent skin contact.

**Eye Protection:** Goggles.

**Additional Measures:** Eye wash fountains should be easily accessible.

**Handling and Storage:** Keep away from excessive heat and moisture. Keep containers closed.

**Ventilation:** Local exhaust to control dusts.

## **9. SPILL AND DISPOSAL DATA**

**Spill:** Spills should be contained and placed in suitable containers.

**Waste Disposal:** Do not discharge into sewers or waterways. Dispose of in accordance with local regulations.

## **10. TRANSPORTATION DATA**

**Proper Shipping Name:** Ink material

**Hazard Class and Label:** Mfr Label Only

**UN Number:** N/A

**Reportable Quantity:** N/A

## **11. OTHER INFORMATION**

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