

# Material Safety Data Sheet

FG-1100-G

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

## GOODSON

Tools and Supplies for Engine Builders  
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Date of Preparation: October 10, 1996

### 1. IDENTIFICATION

**Part No.:** FG-1100-G, FG-1101-G, FG-1102-G  
**Description:** Flywheel Grinder Coolant (1 pt., 1 gal., 5 gal.)  
**Chemical Family:** Polyether Polyol Mixture

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

FOR EXPOSURE LIMITS SEE SECTION 8.

FOR OTHER TOXICOLOGICAL INFORMATION SEE SECTION 11.

<u>Descriptive Name</u>	<u>CAS Number</u>	<u>Percentage Range</u>	<u>Hazardous PER 29CFR 1910.1200</u>	<u>Exposure Standards</u>
Amino-2 Meth-2 Propanol-1	124-68-5	1-5%	Yes	None Established
Triethanolamine	102-71-6	10-20%	Yes	None Established

### 3. HAZARDS IDENTIFICATION

Do not take internally. Avoid contact with skin, eyes and clothing. Upon contact with skin or eyes, wash off with water.

### 4. FIRST AID MEASURES

**Eye Contact:** Immediately flush with large amounts of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Call a physician at once.

**Skin:** Immediately flush with water for at least 15 minutes. Wash the contaminated skin with soap and water. If irritation develops, call a physician. If clothing comes in contact with the product, the clothing should be laundered before re-use.

**Ingestion:** Immediately drink water to dilute. Consult a physician if symptoms develop.

**Inhalation:** This product is not toxic by inhalation. Remove individual to fresh air.

### 5. FIRE FIGHTING MEASURES

#### FLAMMABILITY DATA

**Flammable:** no

**Combustible:** no

**Pyrophoric:** no

**Flash Point:** none

**Test Method:** Cleveland Open Cup

**Autoignition Temperature:** no data

**Flammable Limits at Normal Temperature & Pressure(% volume in air):** LEL-no data UEL-no data

**NFPA Ratings:** not established

**HMIS Ratings:** Health: 1 Flammability: 0 Reactivity: 0

**Extinguishing Media:** Alcohol foam, carbon dioxide, dry chemical, water spray

**Firefighting Techniques and Comments:** This product would not be expected to burn unless all the water is boiled away. The remaining organic compounds may be ignitable. Use water to cool containers exposed to fire. See Section 6 for protective.

### 6. ACCIDENTAL SPILL / RELEASE INFORMATION

**FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC AT 1-800-424-9300.**

**Reportable Quantity:** not applicable

**Spill Mitigation Procedures:** Evacuation procedures must be placed into effect. Utilize emergency response personal protective equipment prior to the start of any response. Stop source of spill as soon as possible and notify appropriate personnel.

**Air Release:** Vapors may be suppressed by the use of water fog or spray. Contain all liquid for treatment and/or disposal as a (potential) hazardous waste.

**Water Release:** This material is heavier than and soluble in water. Notify all downstream water users of possible contamination. Divert water flow around spill if possible and safe to do so. If unable to divert, create an overflow dam to contain material. Continue to handle as described in land spill.

**Land Spill:** Create a trench to contain materials. Spill materials may be absorbed using sand, clay, earth or commercial absorbent. Do not place materials back in original container. Decontaminate all clothing and the spill area using soap solution and flush with large amounts of water.

## ACCIDENTAL SPILL / RELEASE INFORMATION CONT...

**Spill Residues:** Dispose of per guidelines under Section 13, Disposal Considerations.

**Personnel Protection for Emergency Spill and Fire Fighting Situations:** Additional respiratory protection is necessary when a spill or fire involving this product occurs. You are recommended to use a self-contained breathing apparatus (SCBA) positive pressure unit. Additional protective clothing must be worn to prevent personal contact with this material. Those items include but are not limited to boots, gloves, hard hat, splash-proof goggles and impervious clothing, i.e., chemically impermeable suit. Compatible materials for response to this material are neoprene, chlorinated polyethylene, polyvinyl chloride, butyl rubber, viton, polyvinyl alcohol and saranex.

## 7. HANDLING AND STORAGE

**DO NOT TAKE INTERNALLY. AVOID CONTACT WITH SKIN, EYES AND CLOTHING UPON CONTACT WITH SKIN OR EYES, WASH OFF WITH WATER.**

**Storage Conditions:** Do not store at temperatures above 49°C (120°F)

### PRODUCT STABILITY AND COMPATIBILITY

**Shelf Life Limitations:** 1 year in drums, 2 years in bulk

**Incompatible Materials for Storage or Transport:** Strong oxidizers

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### PERSONAL PROTECTION FOR ROUTINE USE OF THIS PRODUCT

**Respiratory Protection:** none required

**Ventilation:** Local exhaust ventilation is recommended if vapors, mists or aerosols are generated. Otherwise use general exhaust ventilation.

**Skin and Eye Protective Equipment:** Use chemical goggles and impermeable gloves

### EQUIPMENT SPECIFICATIONS (WHEN APPLICABLE)

**Respirator Type:** none required

**Protective Clothing Type (This includes: gloves, boots, apron, protective suit):** Impervious

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Clear liquid

**Freezing Point:** Approx. 32°F (0°C)

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

**Decomposition Temperature:** Stable to boiling point

**Specific Gravity:** 1.033 @ 60°F

**Bulk Density:** 8.62 lbs/gal @ 60°F

**pH @ 25°C:** 9.6

**Vapor Pressure @ 25°C:** no data

**Solubility in Water:** complete

**Volatiles, Percent by Volume:** 50-80%

**Evaporation Rate:** no data

**Vapor Density:** no data

**Molecular Weight:** not applicable / mixture

**Odor:** Mild, slightly ammoniacal

**Coefficient of Oil/Water Distribution:** no data

## 10. STABILITY AND REACTIVITY

### CONDITIONS UNDER WHICH THIS PRODUCT MAY BE UNSTABLE

**Temperatures Above:** Product is stable to the boiling point.

**Mechanical Shock or Impact:** No

**Electrical (Static) Discharge:** No

**Hazardous Polymerization:** Will NOT occur

**Incompatible Materials:** Strong oxidizers, nitrites

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, oxides of nitrogen

## 11. TOXICOLOGICAL INFORMATION

**Routes of Absorption:** Dermal, eye contact, ingestion

### WARNING STATEMENTS AND WARNING PROPERTIES

Do not take internally. May cause eye and mucous membrane irritation. May cause skin irritation.

Do not formulate this product with nitrites. The addition of nitrites to formulations containing the aliphatic amine lead to the formation of nitrosamines which have been shown to cause cancer in laboratory animals.

### HUMAN THRESHOLD RESPONSE DATA

**Odor Threshold:** No data available

**Irritation Threshold:** No data available

**Immediately Dangerous to Health or Life:** The IDLH concentration has not been established for this product.

### SIGNS, SYMPTOMS, AND EFFECTS OF EXPOSURE

**Inhalation:** Acute: No significant adverse effects to health are expected to occur from inhalation. Chronic: There are no known or reported effects from chronic exposure.

## TOXICOLOGICAL INFORMATION CONT...

**Skin:** Acute: Contact with the skin may cause irritation consisting of transient redness. The irritant effect would not result in permanent damage. Chronic: There are no known or reported effects from chronic exposure except for effects similar to those experienced from a single exposure.

**Eye:** Contact with the eyes would be expected to cause irritation consisting of reversible redness, swelling and mucous discharge to the conjunctiva. No corneal involvement or visual impairment would be expected.

**Ingestion:** Acute: Ingestion of this product may cause gastrointestinal discomfort consisting of nausea, vomiting, lethargy or diarrhea. Chronic: There are no known or reported effects from chronic exposure except for effects similar to those experienced from a single exposure.

**Medical Conditions Aggravated by Exposure:** None known or reported

**Interactions with other chemicals which enhance toxicity:** None known or reported

### ANIMAL TOXICOLOGY

**Acute Toxicity:** Inhalation LC50; Believed to be >200 mg/L for 1 hour (rat)

Dermal LD50; Believed to be >2 g/kg (rabbit)

Oral LD50; Believed to be >5 g/kg (rat)

Irritation: Eye, skin and mucous membrane irritant

**Acute Target Organ Toxicity:** Irritation to eyes, skin and mucous membranes.

**Chronic Target Organ Toxicity:** Chronic (repeated) exposure to this product would be expected to produce effects similar to those experienced from a single exposure. Long term oral and dermal studies with ethanalamines in animals have been shown to produce liver and kidney damage. It is judged that the low concentration of ethanalamine in this product would preclude the risk of development of these symptoms.

**Reproductive and Developmental Toxicity:** There are no known or reported effects on reproductive function or fetal development for this specific mixture.

**Carcinogenicity:** This product is not known or reported to be carcinogenic by any reference source including IARC, OSHA, or EPA.

**Mutagenicity:** This product is not known to be mutagenic.

## 12. ECOLOGICAL INFORMATION

None known or reported.

## 13. DISPOSAL CONSIDERATIONS

If this product becomes a waste, it DOES NOT meet the criteria of a hazardous waste as defined under 40 CFR 261, in that it does not exhibit the characteristics of a hazardous waste under subpart D. As a nonhazardous liquid waste, it should be disposed of in accordance with local, state and federal regulations by incineration.

**Care must be taken to prevent environmental contamination from the use of this material. The user of this material has the responsibility to dispose of unused material, residues and containers with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.**

## 14. TRANSPORT INFORMATION

This material is not regulated as a DOT Hazardous Material.

## 15. REGULATORY INFORMATION

**Toxic Substances Control Act (TSCA):** The components of this product are listed on the TSCA Inventory.

**SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT TITLE III (SARA):**

**Hazard Categories, PER 40 CFR 370.2:** Health - Immediate (Acute) Physical - None

**EMERGENCY PLANNING AND COMMUNITY RIGHT TO KNOW, PER 40 CFR 355, APPA:**

**Extremely Hazardous Substance-Threshold Planning Quantity:** None established

**Supplier Notification Requirements, PER 40 CFR 372.45:** None established

### INTERNATIONAL REGULATORY INFORMATION

**Canada:** All components are listed on the DSL.

**EEC:** All components are listed on EINECS.

**Japan:** All components are listed on MITI.

## 16. OTHER INFORMATION

**Supersedes:** 12/1/89

**Revision Information:** Update to meet ANSI standard format.

