

# Safety Data Sheet

## Anti-Freeze

### SECTION I - IDENTIFICATION

	Rite-Kem, Inc. 645 Westmoreland Drive Tupelo, MS 38801 (662) 840-6060 Chemtrec :..... (800) 424-9300
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**Product Number** Anti-Freeze  
**Product Name** Anti-Freeze  
**Synonyms** NSN 6850-00-664-1409, 6850-00-664-1403  
**CAS Number** 107-21-1  
**Date Prepared** 5/28/2015  
**Revision Number** 4/19/2018  
**Recommended Use** Industrial Use Only

### SECTION II - HAZARDOUS IDENTIFICATION

#### GHS CLASSIFICATION:

##### Classification

Acute Toxicity, Oral	Category 4
Acute Toxicity, Oral	Category 5
Specific target organ toxicity, single exposure, N	Category 3
Specific target organ toxicity, single exposure	Category 1
Specific target organ toxicity, repeated exposure	Category 2
Hazardous to the aquatic environment, long-term hazard	Category 3

#### **DANGER!**

#### GHS LABEL:



#### Hazard Statements

H302	Harmful if swallowed
H303	May be harmful if swallowed
H336	May cause dizziness or drowsiness
H370	Causes damage to organs
H373	Causes damage to organs through prolonged or repeated exposure
H412	Harmful to aquatic life with long lasting effects

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### Precautionary Statements

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash... thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated are.
P273	Avoid release to the environment.
P301+312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P304+340	IF INHALED: Remove victim to fresh air and keep comfortable for breathing.
P308+311	IF exposed or concerned: Call POISON CENTER/doctor/physician
P312	Call a POISON CENTER or a doctor/physician if you feel unwell.
P314	Get medical advice/attention if you feel unwell.
P321	Specific treatment (see ... on this label).
P330	Rinse mouth.
P403+233	Store in a well ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container to...

### SECTION III - COMPOSITION/INFORMATION ON INGREDIENTS

The precise composition of this product is proprietary information. In the event of a medical emergency, a complete disclosure will be provided to medical personnel.

Component Name	CAS #	Component%	OSHA PEL	ACGIH TLV
Monoethylene Glycol	107-21-1		Not Established	100 mg/m3

### SECTION IV - FIRST AID MEASURES

**Contact with eyes:** Flush with water for 15 minutes. Seek immediate medical attention.

**Skin contact:** Wash exposed areas with water and mild soap. Remove contaminated clothing immediately and launder before reuse. If irritations persist, seek immediate medical attention.

**Inhalation:** Remove victim to fresh air. Administer oxygen or artificial respiration if breathing is affected or stopped. Seek immediate medical attention.

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**Ingestion:** If swallowed. Do not induce vomiting. Seek immediate medical attention.

### SECTION V - FIREFIGHTING MEASURES

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

**Special Fire Fighting Procedures** Use self-contained breathing apparatus and full bunker gear in fire areas. Evacuate all unprotected personnel from area. Keep containers cool with water fog to minimize swelling taking care not to spread flames with water used for cooling.

**Unusual Fire Fighting Hazards:** Product is flammable and may be ignited by heat, sparks, flames or other sources of ignition (e.g., static electricity, pilot lights or mechanical/electrical equipment). Vapors are heavier than air and may accumulate in low areas.

### SECTION VI - ACCIDENTAL RELEASE MEASURES

**Personal Precautions:**

**Environmental Precautions:**

**Methods for Cleaning Up:**

### SECTION VII - HANDLING AND STORAGE

- Handling and Storage:**
- "Empty" containers retain residue and/or vapor and may be dangerous. Do not cut, weld, braze solder, drill, grind or expose such containers to heat, flames, sparks, or other ignition sources.
  - Keep containers tightly closed when not in use.
  - Avoid prolonged breathing of mist or vapor. Wash thoroughly after handling.
  - NFPA Class III B storage.
  - Store out of direct sunlight and in a cool, well-ventilated area.

### SECTION VIII - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

**EXPOSURE LIMITS:**

Component Name	CAS #	OSHA PEL	ACGIH TLV
Monoethylene Glycol	107-21-1	Not Established	100 mg/m <sup>3</sup>

**Engineering Controls:** Adequate local or mechanical to reduce vapor or mist to below the PEL or TLV.

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**Monitoring:** Follow accepted work practices for handling a flammable material.  
Do not eat, drink or smoke in areas where this chemical is used or stored.  
Have eye wash stations and safety showers readily available.

#### Personal Protective Equipment (PPE)

**Eye Protection:** Goggles or approved OSHA device with side shields; do not wear contact lenses when handling this product.

**Skin Protection:** Impervious solvent resistant gloves.  
Impervious apron and work boots recommend where splashing may occur.

**Respiratory Protection:** Use the proper respirator in areas where the chemical exposure is unknown or above the OSHA PEL or ACGIH TLV.

#### SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Clear, Blue/Green Liquid
<b>Odor</b>	Mild odor
<b>pH@25°C</b>	N/A
<b>Melting/Freezing Point</b>	<-40°F
<b>Flashpoint</b>	>200°F (TCC)
<b>Specific Gravity</b>	1.137
<b>Solubility</b>	Soluble
<b>Auto-Ignition Temperature</b>	-
<b>Decomposition Temperature</b>	-
<b>VOC Content</b>	99% (9.38#/gal) max
<b>Odor Threshold</b>	-
<b>Boiling Range</b>	330-340°F
<b>Evaporation Point</b>	<0.01 (Butyl Acetate=1)
<b>Flammable Limits - Upper</b>	Not Determined
<b>Flammable Limits - Lower</b>	Not Determined
<b>Vapor Pressure</b>	<0.1 mmHg @ 20°C
<b>Vapor Density (Air=1)</b>	>1 (Air=1)
<b>Viscosity</b>	-

#### SECTION X - STABILITY AND REACTIVITY

**Stability:** Stable

**Conditions to Avoid:** Strong oxidizing agents

**Hazardous Decomposition/Byproducts:** CO and CO<sub>2</sub> and unidentified organic compounds may form during combustion.

**Hazardous Polymerization:** Will not occur.

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**Polymerization Conditions to Avoid:** None

**Incompatibilities:** Strong oxidizers

#### SECTION XI - TOXICOLOGICAL INFORMATION

**Likely Route of Exposure:** Contact and inhalation; ingestion possible.

**Inhalation:** May cause irritation to the upper respiratory tract and CNS depression. Low to moderate degree of toxicity by inhalation.

**Eye Contact:** Causes eye irritation including stinging, watering and redness which may result in corneal injury.

High vapor concentrations are irritating to the eyes.

**Skin Contact:** Contact may cause mild skin irritation including redness, burning and drying/cracking of the skin.

No harmful effects from skin adsorption are expected.

**Ingestion:** Aspiration hazard. Can enter the lungs during swallowing or vomiting and cause chemical pneumonia and edema.

Moderate to high degree of toxicity by ingestion. May be harmful or fatal if swallowed.

May produce CNS depression and kidney damage which may be fatal.

**Toxicity:**

Component Name	LD50	LC50
Monoethylene Glycol	Oral, mouse 5500 mg/kg; Oral, rat 4700 mg/kg; Dermal, rabbit	Inhalation, rat 10876 mg/kg

Reproductive Effects	Teratogenicity	Mutagenicity	Embryotoxicity	Sensitization to Product	Synergistic Products
Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

#### SECTION XII - ECOLOGICAL INFORMATION

**Ecotoxicity:** Information not available.

**Mobility:** Information not available.

**Degradability:** Information not available.

**BioAccumulation:** Information not available.

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## SECTION XIII - WASTE DISPOSAL CONSIDERATIONS

Follow Federal, state, and local regulations.

## SECTION XIV - TRANSPORT INFORMATION

### DOT SHIPPING INFORMATION

**Proper Shipping Name:** Environmentally Hazardous Substances, Liquid, N.O.S.

**Contains:** Glycols

**Hazard Class and Label:** 9

**Identification Number:** UN 3082

**Packaging Group:** III

**Other Shipping Info:**

## SECTION XV - REGULATORY INFORMATION

**TSCA STATUS:**..... The components of this product are listed on the TSCA Inventory

### SARA TITLE III SECTION 302/304 EXTREMELY HAZARDOUS SUBSTANCE:

No chemicals in this material are subject to the reporting requirements.

### SARA TITLE III SECTION 311/312 HAZARD CATEGORIZATION:

Acute	Chronic	Fire	Pressure	Reactive
X				

### SARA TITLE III SECTION 313 SUPPLIER INFORMATION:

No chemicals in this material are subject to the reporting requirements.

### CERCLA SECTION 102(a) HAZARDOUS SUBSTANCE:

No chemicals in this material are subject to the reporting requirements.

### CALIFORNIA PROPOSITION 65:

No chemicals in this material are subject to the reporting requirements.

## SECTION XVI - OTHER INFORMATION

**HMIS Health:** ..... 1

**HMIS Flammability:** ..... 1

**HMIS Reactivity:** ..... 0

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#### Additional:

#### Specification Information

**Department issuing data sheet:** Quality Control

**Email address:** customerservice@ritekem.com

**Training necessary:** Follow product use instructions listed on the label. Any additional questions, contact Customer Service at 662-840-6060 or email customerservice@ritekem.com.

#### Disclaimer:

The information in this Safety Data Sheet and product label is believed to be accurate and reliable as of the date issued. Rite-Kem makes no warranties, expressed or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose or course of performance or usage of trade. Accordingly, Rite-Kem will not be responsible for damages resulting from use of or reliance upon this information. The user is responsible for determining whether the Rite-Kem product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application on a Rite-Kem product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the Rite-Kem product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.