



# RV Anti-Freeze –100° F

-100° F Burst (-28° F Freeze Point/Refractometer 50% Propylene Glycol)

## MATERIAL SAFETY DATA SHEET

### SECTION 1

### CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product/Chemical Name: RV Anti-Freeze –100° F  
Product Description: Propylene Glycol Antifreeze  
Manufacturer: Major Brands Oil Company  
462 W 23rd St  
Holland, MI 49423  
1-800-968-9000  
www.MajorBrandsOil.com

### SECTION 2

### INGREDIENTS

<u>Ingredient</u>	<u>CAS No.</u>	<u>% By Wt</u>	<u>Vapor Pressure mm Hg @ Temp</u>
Propylene Glycol	57-55-6	50%	.08 68° F
Additives	N/A	<.001	

### SECTION 3

### PHYSICAL PROPERTIES

Boiling Point (Deg. F): 370  
Freeze Point: Product will not freeze  
Specific Gravity (Water = 1): 1.04  
Vapor Pressure (mm of Hg) @ 20° C: <0.1  
Vapor Density (Air = 1): 206  
Water Solubility: Complete  
Evaporation Rate (BuAc = 1): Slight  
Appearance: Clear, Blue Liquid  
Odor: Slightly viscous, almost odorless liquid

### SECTION 4

### STABILITY AND REACTIVITY

Stability: Stable  
Conditions to Avoid: Heat, Sparks, Open Flame  
Materials to Avoid: Strong Alkalis, Strong Oxidizing Agents  
Hazardous Decomposition or By-Products: Carbon Monoxide, and other toxic vapors  
Hazardous Polymerization: Not expected to occur



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### SECTION 5

### FIRE AND EXPLOSTION DATA

#### Flammable Properties:

Flash Point: 218° F

Flammable or  
Explosive Limits

(approximate % by volume air): LEL: 2.6 UEL: 12.5

#### Extinguishing Media:

Carbon Dioxide, Dry Chemical, Alcohol Type Foam, Water Spray, Water Fog

#### Special Fire Fighting Procedures:

Wear positive pressure, self-contained breathing apparatus and other protective apparatus as warranted. Fight fire from a distance or protected location. Heat may build up pressure and rupture closed containers. Liquid may form slippery film. Use water spray or fog for cooling; solid stream may spread fire as burning liquid will float on water. Avoid frothing/steam explosion. Notify authorities if liquid enters sewers/public waters.

#### Unusual Fire and Explosion Hazards:

None Known

### SECTION 6

### HEALTH HAZARD DATA

Health: 0

Flammability: 1

Reactivity: 0

Special: NONE

1- minimal 2 - slight 3 - moderate 4 - serious 5 - severe

#### Route(s) of Entry

Inhalation: Yes

Skin: Yes

Ingestion: Yes

Eyes: Yes

#### Effects of overexposure:

##### Acute:

**Eyes:** May cause minimal irritation, experienced as temporary discomfort.

**Skin:** No significant adverse effects are expected under conditions of normal use. Repeated, prolonged exposure may cause slight flaking, tenderness and softening of the skin. The KD50 skin absorption in rabbits is > 10,000 mg/kg.

**Inhalation:** No significant adverse effects are expected under conditions of normal use. If effects do occur, refer to FIRST AID section

**Ingestion:** No significant adverse effects are expected under conditions of normal use. Excessive ingestion may cause central nervous system effects. The oral LD50 for rats is 20,000 - 34,000 mg/kg.

**Systemic & Other Effects:** Repeated excessive ingestion may cause central nervous system effects. No carcinogenic effects have been seen in long-term animal studies. Birth defects are unlikely. Exposures having no adverse effects on the mother should have no effect on the fetus. In animal studies, has been shown not to interfere with reproduction. Results of mutagenicity test in vitro (test tube) and in animals have been negative.

**Medical Conditions Generally aggravated by Exposure:** Material and/or its emissions may aggravate pre-existing eye disease.



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### SECTION 7

### FIRST AID MEASURES

#### Emergency and First Aid

##### Procedures:

Eye contact:

Immediately flush eyes with large amounts of water for 20-30 minutes, lifting lower and upper lids. Get medical attention as soon as possible. Obtain medical attention if pain, blinking, tearing or redness persist.

Skin contact:

Wash thoroughly in flowing water or shower. Promptly remove any soiled clothing and wash thoroughly before re-use.

Ingestion:

If large quantity is swallowed, give a pint of lukewarm water if victim is completely conscious and alert. If large quantities are consumed, induce vomiting. Obtain emergency medical attention immediately.

Inhalation:

If overcome by exposure, remove person to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention immediately.

### SECTION 8

### ACCIDENTAL RELEASE MEASURES

#### Spill/Leak Procedures:

Prevent flow to sewers and public waters as it may contaminate said water. Restrict water usage to prevent slip/fall hazard. Soak up small spills with inert solids. Dike and recover large land spills. Notify the proper authorities if product enters any waterway.

#### WASTE DISPOSAL METHOD:

Landfill solids at permitted sites using registered transporters. Burn concentrated liquids, avoiding flameouts and assuring emissions comply with applicable regulations. Diluted aqueous waste may biodegrade, but avoid overloading plant biomass and assure effluent complies with applicable regulations.

### SECTION 9

### HANDLING AND STORAGE

#### Handling Precautions:

Store in tightly closed and properly vented containers, away from heat, sparks, open flame and strong oxidizing agents.

### SECTION 10

### EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.

VENTILATION:

Adequate general ventilation is required; local exhaust is recommended.

PROTECTIVE GLOVES:

Not required.

EYE PROTECTION:

Chemical splash goggles or full face shield must be worn when the possibility exists for eye contact due to splashing or spraying liquid, airborne particles, or vapor. Contact lenses should not be worn.

OTHER PROTECTIVE EQUIPMENT : None.

PERSONAL HYGIENE:

If product handling results in skin contact, wash hands and other exposed areas with mild soap and water before eating, drinking, smoking or using toilet facilities.