

PRIM 142005 & 142001 – -50 RV & MARINE ANTIFREEZE**SECTION 1: IDENTIFICATION****1.1 PRODUCT IDENTIFIER**

Product name -50 RV & Marine Antifreeze
Product number PRIM142005 (1 Gal) PRIM142001 (55 Gal)
Brand Prime Guard

1.4 SUPPLIER'S DETAILS

Name Highline Aftermarket
Address 4500 Malone Road
Memphis TN 38118
Telephone 901-775-5555
email sds@highlineaftermarket.com

1.5 EMERGENCY PHONE NUMBER(S) CHEM-TEL (800) 255-3924
24 Hour Assistance

SECTION 2: HAZARD IDENTIFICATION**General hazard statement**

"Consumer Products", as defined by the US Consumer Product Safety Act and which are used as intended (typical consumer duration and frequency), are exempt from the OSHA Hazard Communication Standard (29 CFR 1910.1200). This SDS is being provided as a courtesy to help assist in the safe handling and proper use of the product.

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

GHS classification in accordance with: (US) OSHA (29 CFR 1910.1200)
- Flammable liquids, Cat. 2

2.2 GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS**Pictogram**

1. Flame

Signal word

Danger

Hazard statement(s)

H226 Flammable liquid and vapor
H303+H313+H333 May be harmful if swallowed, in contact with skin or if inhaled

Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233 Keep container tightly closed.

P280
P303+P361+P353

P403+P235
P501

Wear protective gloves/eye protection/face protection.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
Store in a well-ventilated place. Keep cool.
Dispose of contents/container according to local regulations.

2.3 Other hazards which do not result in classification

Can cause mild skin irritation.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 MIXTURES

Hazardous components

1. Water

Concentration	70.5 - 71.9 % (volume)
EC no.	231-791-2
CAS no.	7732-18-5

2. Alcohol

Concentration	8.4 - 8.5 % (weight)
EC no.	200-578-6
CAS no.	64-17-5
Index no.	603-002-00-5

- Flammable liquids, Cat. 2

H225

Highly flammable liquid and vapor

3. Propylene glycol

Concentration	11 - 11 % (weight)
EC no.	200-338-0
CAS no.	57-55-6

4. Glycerin

Concentration	10 - 10 % (weight)
EC no.	200-289-5
CAS no.	56-81-5

SECTION 4: FIRST-AID MEASURES

4.1 DESCRIPTION OF NECESSARY FIRST-AID MEASURES

If inhaled

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

Acute and delayed symptoms and effects: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain

Remove person to fresh air. If you feel unwell, get medical attention.

In case of skin contact

Take off immediately all contaminated clothing. Wash with plenty of soap and water for at least 15 minutes. Get medical attention if irritation develops or persists. Wash contaminated clothing before reuse.

Acute and delayed symptoms and effects: May cause skin irritation. Signs/symptoms may include localized redness, swelling, and itching.

In case of eye contact

Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, get medical attention

If swallowed

Rinse mouth. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Call a poison center or doctor immediately.

Acute and delayed symptoms and effects: May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

4.2 MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

SECTION 5: FIRE-FIGHTING MEASURES

5.1 SUITABLE EXTINGUISHING MEDIA

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

Ethanol: Carbon oxides

Acetaldehyde: May explode when heated., Closed containers may rupture and explode during runaway polymerization., Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

5.3 SPECIAL PROTECTIVE ACTIONS FOR FIRE-FIGHTERS

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

Use water spray to cool unopened containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

6.2 ENVIRONMENTAL PRECAUTIONS

Do not let product enter drains.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Eliminate all sources of ignition. Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Wash hands with soap and water after handling. Container explosion may occur under fire conditions. Use explosion-proof equipment. Keep away from sources of ignition. No smoking. Take measures to prevent the buildup of electrostatic charge. For precautions see section 2.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Keep container tightly closed in a dry, cool and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Specific end use(s)

Apart from the uses mentioned in section 1 no other specific uses are stipulated.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

1. Propylene glycol (CAS: 57-55-6 EC: 200-338-0)

TWA (Inhalation): 10 mg/m³; USA (OSHA)

USA. Workplace Environmental Exposure Levels (WEEL)

2. tert-Butyl alcohol (CAS: 75-65-0)

PEL (Inhalation): 100 ppm (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 300 mg/m³ (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 100 ppm, (ST) 150 ppm (Cal/OSHA)

OSHA Annotated Table Z-1, www.osha.gov

REL (Inhalation): 100 ppm, (ST) 150 ppm (NIOSH)

OSHA Annotated Table Z-1, www.osha.gov

3. Ethyl alcohol (Ethanol) (CAS: 64-17-5)

PEL (Inhalation): 1000 ppm (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 1900 mg/m³ (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 1000 ppm (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

REL (Inhalation): 1000 ppm (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

TLV® (Inhalation): (ST) 1000 ppm; USA (ACGIH)
OSHA Annotated Table Z-1, www.osha.gov

4. Methanol (CAS: 67-56-1 EC: 200-659-6)

PEL-TWA (Inhalation): 200 ppm, 260 mg/m³ (OSHA)
Headache. Nausea. Dizziness. Eye damage Substances for which there is a Biological Exposure Index or Indices
Danger of cutaneous absorption

PEL-TWA (Inhalation): 200 ppm (Cal/OSHA)

PEL-ST (Inhalation): 250 ppm (Cal/OSHA)

PEL-C (Inhalation): 1000 ppm (Cal/OSHA)

PEL-ST (Inhalation): 250 ppm (NIOSH)

REL-TWA (Inhalation): 200 ppm (NIOSH)

TLV® (Inhalation): 200 ppm (ACGIH)

TLV® (Inhalation): 250 ppm (ST) (ACGIH)

5. Acetaldehyde (CAS: 75-07-0)

PEL (Inhalation): 200 ppm (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 360 mg/m³ (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): (C) 25 ppm (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

REL (Inhalation): Ca, See Appendix A, See Appendix C (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

TLV® (Inhalation): (C) 25 ppm; USA (ACGIH)
OSHA Annotated Table Z-1, www.osha.gov

6. Glycerol (CAS: 56-81-5 EC: 200-289-5)

TWA (Inhalation): 15 mg/m³; USA (OSHA)
USA. Occupational Exposure Limits(OSHA) - Table Z-1 Limits for Air Contaminants

TWA (Inhalation): 10 mg/m³; USA (ACGIH)
USA. ACGIH Threshold Limit Values (TLV)/Upper Respiratory Tract irritation

PEL (Inhalation): 15 mg/m³ (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 10 mg/m³, PNOR (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 5 mg/m³ (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 5 mg/m³, PNOR (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

TWA (Inhalation): 5 mg/m³; USA (OSHA)
USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminant

8.2 APPROPRIATE ENGINEERING CONTROLS

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

8.3 INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT (PPE)

Pictograms



Eye/face protection

Tightly fitting safety goggles. If splash hazard, wear faceshield (8-inch minimum). Use equipment for eye protection that meets the standards referenced by OSHA regulations in 29 CFR 1910.133 for Personal Protective Equipment.

Skin protection

Wear protective gloves, such as nitrile gloves.

Body protection

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Not required under normal use conditions. If engineering controls and ventilation are not sufficient to control exposure to below the allowable limits then an appropriate NIOSH/MSHA approved air-purifying respirator with organic vapor/acid gas cartridge and particulate filter, or self-contained breathing apparatus must be used. Supplied air breathing apparatus must be used when oxygen concentrations are low or if airborne concentrations exceed the limits of the air-purifying respirators.

Thermal hazards

No data available.

Environmental exposure controls

Do not let product enter drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	Clear Pink Liquid
Odor	Mild
Odor threshold	No data available.
pH	7.0-8.0

Melting point/freezing point	No data available.
Initial boiling point and boiling range	No data available.
Flash point	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper/lower flammability limits	
Upper/lower explosive limits	No data available.
Vapor pressure	
Vapor density	
Relative density	< 1.00
Solubility(ies)	No data available.
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	
Decomposition temperature	No data available.
Viscosity	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.

Other safety information

No data available.

SECTION 10: STABILITY AND REACTIVITY**10.1 REACTIVITY**

This material is considered to be nonreactive under normal use conditions.

10.2 CHEMICAL STABILITY

Stable under normal storage conditions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No data available.

10.4 CONDITIONS TO AVOID

Heat, flames and sparks. Incompatible products. Keep away from open flames, hot surfaces and sources of ignition.

10.5 INCOMPATIBLE MATERIALS

Propylene glycol: Acid chlorides, Acid anhydrides, Oxidizing agents, Chloroformates, Reducing agents

Ethanol: Alkali metals, Oxidizing agents, Peroxides

Methanol: Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids

Acetaldehyde: Oxidizing agents, Reducing agents, acids, Nitric acid, Peroxides, Bases, Sodium Hydroxide, Amines, Ammonia, Oxygen, Warning: acetaldehyde is oxidized rapidly and exothermically by air, to acetic acid, Acid anhydrides, Alcohols, Halogens, Ketones, Phenol, Hydrogen sulfide gas, Hydrogen peroxide

Glycerin : Strong bases, Strong oxidizing agents

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

No data available.

Water: In the event of fire: see section 5

Propylene glycol: Other decomposition products - No data available
In the event of fire: see section 5

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

Components:

Likely Routes of Exposure: Eye contact. Skin contact. Inhalation. Ingestion.

Acute and delayed symptoms and effects from inhalation, skin and eye contact and ingestion are listed in Section 4.

ATE (dermal) of mixture: 2500 mg/kg

ATE (inhalation, gaseous) of mixture: 5833.33 ppmv

ATE (inhalation, vapor) of mixture: 25 mg/l

ATE (oral) of mixture: 833.33 mg/kg

Ethanol: ACGIH: A3 Confirmed animal carcinogen with unknown relevance to humans.

Skin corrosion/irritation

May cause skin irritation.

Serious eye damage/irritation

May cause eye irritation.

Respiratory or skin sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification

STOT-single exposure

May cause drowsiness or dizziness

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure

Aspiration hazard

May be harmful if swallowed and enters airways

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

No data available on product

Persistence and degradability

No data available on product

Bioaccumulative potential

No data available on product

Mobility in soil

No data available on product.

Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects

No data available on product.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal of the product

Disposal should be in accordance with applicable Federal, State and local laws and regulations. Local regulations may be more stringent than State or Federal requirements.

Disposal of contaminated packaging

Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS SPECIFIC FOR THE PRODUCT IN QUESTION

California Prop. 65 Components

Chemical name: Methanol

CAS number: 67-56-1

03/16/2012 - Developmental toxicity

Chemical name: Acetaldehyde

CAS number: 75-07-0

04/01/1988 - Cancer

State of California to cause birth defects or other reproductive harm.

Methanol
CAS-No. 67-56-1

WARNING! This product contains a chemical known to the State of California to cause cancer.
Acetaldehyde

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Chemical name: tert-Butyl alcohol
CAS number: 75-65-0

Chemical name: Ethanol
CAS number: 64-17-5

Chemical name: Methanol
CAS number: 67-56-1

Chemical name: Acetaldehyde
CAS number: 75-07-0

Glycerol
CAS-No. 56-81-5

New Jersey Right To Know Components

Water
CAS-No. 7732-18-5

Propylene glycol
CAS number: 57-55-6

Common name: tert-BUTYL ALCOHOL
CAS number: 75-65-0

Common name: ETHYL ALCOHOL
CAS number: 64-17-5

Chemical name: Methanol
CAS number: 67-56-1

Chemical name: Acetaldehyde
CAS number: 75-07-0

Glycerol
CAS-No. 56-81-5

Pennsylvania Right To Know Components

Water
CAS-No. 7732-18-5

Propylene glycol

CAS number: 57-55-6

Chemical name: 2-Propanol, 2-methyl-
CAS number: 75-65-0

Chemical name: Ethanol
CAS number: 64-17-5

Chemical name: Methanol
CAS number: 67-56-1

Chemical name: Acetaldehyde
CAS number: 75-07-0

Glycerol
CAS-No. 56-81-5

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 311/312 Hazards

No SARA Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Chronic Health Hazard

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

The following components are subject to reporting levels established by SARA Title III, Section 313:

Chemical name: Acetaldehyde
CAS number: 75-07-0

SECTION 16: OTHER INFORMATION

16.1 FURTHER INFORMATION/DISCLAIMER

DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their particular purposes. In no event shall Highline Aftermarket be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, whatsoever arising, even if Highline Aftermarket has been advised of the possibility of such damages.