

Product #(s) – CBRVAFAN, CBRVAFT

Safety Data Sheet

" For Emergency Call:
CHEM-TEL (800) 255-3924 24 Hour Assistance

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Champion -50 RV Anti-Freeze

CAS Number: 57-55-6 / 64-17-5 / 7732-18-5

Recommended Uses: Anti-Freeze

Company Identification

" CHAMPION BRANDS LLC

" Address: 1001 Golden Drive, Clinton, MO 64735

" Telephone – General Information: (800) 821-5693

2. HAZARDS IDENTIFICATION

Hazard Classes: Flammable Liquid Category 3

" Carcinogenicity Category 1A

" Toxic to Reproduction Category 1A

" Specific Target Organ Toxicity (Single Exposure) Category 3

" Specific Target Organ Toxicity (Repeated Exposure) Category 1

Signal Word: Danger

Hazard Statements:

H226 Flammable Liquid and Vapor.

H227 Combustible liquid.

H336 May cause drowsiness or dizziness.

H341 Suspected of causing genetic defects if swallowed.

H350 May cause cancer if swallowed.

H360 May damage fertility and the unborn child, including fetal alcohol syndrome, if swallowed.

H336 May cause drowsiness or dizziness.

H372 Causes damage to the liver, digestive, cardiovascular and central nervous system through prolonged or repeated exposure if swallowed.

Precautionary Statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children,

P103 Read label before use.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233 Keep container tightly closed.

P240 Ground/Bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

Product #(s) – CBRVAFAN, CBRVAFT

P260 Do not breathe vapors/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 area.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P303 + P361 + P353 If ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
 P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P312 Call a POISON CENTER/doctor if you feel unwell.
 P308 + P311 + P313 IF exposed or concerned: Call a POISON CENTER/doctor. Get medical advice/attention.
 P370 + P378 In case of fire: Use dry chemical, CO₂, alcohol-resistant foam, and water spray for extinction.
 P403 + P233 + P235 Store in a well-ventilated place. Keep container tightly closed. Keep cool.
 P405 Store locked up.
 P501 Disposal: Dispose of contents/container to a specialized waste disposal plant in accordance with local/regional regulations

Hazard Pictograms:



3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	Typical Weight Percentage	CAS Number
Propylene Glycol	< 9%	57-55-6
Ethanol - Denatured	< 20%	64-17-5
Water	72-75%	7732-18-5

4. FIRST AID

Eyes: If irritation or redness develops, move victim away from exposure and into fresh air. Flush eyes with clean water. If symptoms persist, seek medical attention.

Skin: Remove contaminated shoes and clothing and cleanse affected area(s) thoroughly by washing with mild soap and water. If irritation or redness develops, seek medical attention.

Inhalation: If respiratory symptoms develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention. If victim is not breathing, clear airway and immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

Ingestion: If swallowed, seek emergency medical attention. If victim is drowsy or unconscious and vomiting, place on left side with head down and do not give anything by mouth to an unconscious person. Do not induce vomiting unless told to by physician or poison center.

Product #(s) – CBRVAFAN, CBRVAFT

- " **Medical Conditions:** Conditions which may be aggravated by exposure include liver, digestive, cardiovascular and central nervous systems.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Dry chemical, CO₂, water spray or alcohol-resistant foam. Water spray is recommended to cool or protect exposed materials or structures. Water may be ineffective for extinguishment, unless used under favorable conditions by experienced fire fighters. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces.

Specific Hazards: This material is flammable and can be ignited by heat, sparks, flames or other sources of ignition (e.g., static electricity, pilot lights or mechanical/electrical equipment). Flame is invisible in daylight. Vapors may travel considerable distances to a source of ignition where they can ignite, flashback or explode. May create vapor/air explosion hazard indoors, in confined spaces, outdoors or in sewers. If container is not properly cooled, it can rupture in the heat of a fire. Vapors are heavier than air and can accumulate in low areas.

Hazardous Combustion Products: Toxic gases and vapors; oxides of carbon and formaldehyde.

Special Firefighting Procedures: For fires beyond the initial stage, emergency responders in the immediate hazard area should wear bunker gear. When the potential chemical hazard is unknown, in enclosed or confined spaces, or when explicitly required by DOT, a self-contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8). Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Move undamaged containers from immediate hazard area if it can be done with minimal risk. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool equipment exposed to fire with water, if it can be done with minimal risk. Avoid spreading burning liquid with water used for cooling purposes.

6. ACCIDENTAL RELEASE MEASURES

- " **Personal Precautions:** Flammable. Spilling of liquid product will create a fire hazard and may form an explosive atmosphere. Keep all sources of ignition and hot metal surfaces away from spill/release if safe to do so. The use of explosion-proof equipment is recommended. Stay upwind and away from spill/release. For large spills, notify people down-wind of spill/release, isolate immediate hazard area and keep unauthorized personnel out. Wear appropriate protective equipment including respiratory protection as conditions warrant (see Section 8). See Sections 2 and 7 for additional information on hazards and precautionary measures.
- " **Environmental Precautions:** Stop spill/release if it can be done with minimal risk. Prevent spilled material from entering sewers, storm drains, other unauthorized treatment drainage systems, and natural waterways. Use foam on spills to minimize vapors. Use water sparingly to minimize environmental contamination and reduce disposal requirements. If spill occurs on water, notify appropriate authorities. Spills into or upon navigable waters, the contiguous zone, or adjoining shorelines that cause a sheen or discoloration on the surface water, may require notification of the National Response Center (phone number 800-424-8802).
- " **Methods for Containment and Clean-Up:** Notify relevant authorities in accordance with all applicable regulations. Immediate cleanup of any spill is recommended. Dike far ahead of spill for later recovery or disposal. Absorb spill with inert material such as sand, earth or other non-combustible material, and place in suitable container for disposal. If spilled on water remove with appropriate methods (e.g., skimming, booms or absorbents). In case of soil contamination, remove contaminated soil for remediation or disposal, in accordance with local regulations.

Product #(s) – CBRVAFAN, CBRVAFT

7. HANDLING AND STORAGE

Precautions for Safe Handling: Keep away from ignition sources such as heat/sparks/open flames – No smoking. Take precautionary measures against static discharge. Non-sparking tools should be used. Wear protective gloves/clothing and eye/face protection. Wash thoroughly after handling. Use good personal hygiene practices and wear appropriate personal protective equipment (see Section 8).

Flammable. May vaporize easily at ambient temperatures. The vapor is heavier than air and may create an explosive mixture of vapor and air. Beware of accumulation in confined spaces and low lying areas. Open container slowly to relieve any pressure. Electrostatic charge may accumulate and create a hazardous condition when handling or processing this material. To avoid fire or explosion, dissipate static electricity during transfer by bonding and grounding containers and equipment before transferring material. The use of explosion-proof equipment is recommended and may be required (see appropriate fire codes). Refer to NFPA-77 and/or API RP 2003 for specific bonding/grounding requirements. Do not enter confined spaces such as tanks or pits without following proper entry procedures such as ASTM D-4276 and 29CFR 1910.146. Do not wear contaminated clothing or shoes. Keep contaminated clothing away from sources of ignition such as sparks or open flames. Use good personal hygiene practice.

Conditions for Safe Storage: Keep container(s) tightly closed. Use and store this material in cool, dry, well-ventilated areas away from heat and all sources of ignition. Post area “No Smoking or Open Flame.” Store only in approved containers. Keep away from any incompatible material (see Section 10). Protect container(s) against physical damage. Outdoor or detached storage is preferred. Indoor storage should meet OSHA standards and appropriate fire codes.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
Propylene Glycol	None	None	None	None
Ethanol	---	1000 ppm	1000 ppm	---

Engineering Controls: If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits, additional ventilation or exhaust systems may be required.

Specific Personal Protective Equipment

Eye/Face Protection: While contact with this material is not expected to cause irritation, the use of approved eye protection to safeguard against potential eye contact is considered good practice.

Skin: Not required based on the hazards of the material. However, it is considered good practice to wear gloves when handling chemicals.

Respiratory Protection: Respiratory protection is not usually required.

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. Air-purifying respirators provide limited protection and cannot be used in atmospheres that exceed the maximum use concentration as directed by regulation or the manufacturer's instructions, in oxygen

Product #(s) – CBRVAFAN, CBRVAFT

deficient (less than 19.5% oxygen) situations or under conditions that are immediately dangerous to life and health (IDLH).

Use

a positive pressure air supplied respirator if there is potential for uncontrolled release, exposure levels are unknown, or any other circumstances where air-purifying respirators may not provide adequate protection.

Other Protective Equipment: A source of clean water should be available in the work area for flushing eyes and skin. Impervious clothing should be worn as needed.

Suggestions provided in this section for exposure control and specific types of protective equipment are based on readily available information. Users should consult with the specific manufacturer to confirm the performance of their protective equipment. Specific situations may require consultation with industrial hygiene, safety, or engineering professionals.

9. PHYSICAL AND CHEMICAL PROPERTIES (approximate values)

Appearance: Clear, pink liquid

Odor: Mild

Odor threshold: No data

pH: Not applicable

Melting/Freezing Point: No data

Boiling point (at 1 atm): 85 - 93 °C (185 – 200 °F)

Flash Point: 43 °C (110 °F)

Auto-Ignition Temperature: No data

Evaporation rate (butyl acetate = 1): No data

Flammability (solid, gas): Not applicable

Explosive Limits: No data

Vapor Pressure: 44.6 mm Hg @ 68 °F

Vapor Density (air = 1): >1

Specific gravity (H₂O = 1): ~1

Solubility in water: Soluble

Partition Coefficient: No data

Decomposition Temperature: No data

Viscosity: No data

10. STABILITY AND REACTIVITY

Stability (thermal, light, etc.): Stable under normal conditions of storage and handling.

Conditions to Avoid: Exposure to elevated temperatures of propylene glycol can cause product to decompose. Generation of gas during decomposition can cause pressure in closed systems. Avoid direct sunlight or ultraviolet sources.

Incompatibility (materials to avoid): Avoid contact with strong acids, bases and oxidizers.

Hazardous Decomposition Products: Decomposition products can include aldehydes, alcohols, ethers and organic acids.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

Product #(s) – CBRVAFAN, CBRVAFT

Product/Ingredient Name	Result	Species	Dose
Propylene Glycol (major component)	LD50 Oral	Rat	22 g/kg
	LD50 Dermal	Rabbit	>2 g/kg
	LC50 Inhalation (vapor)	Rat	>317 mg/l – 2hr
Ethanol	LD50 Oral	Rat	10.5 g/kg
	LC50 Inhalation (vapor)	Rat	133.8 mg/l (vapor)-4hr

Skin Corrosion/Irritation: Causes mild irritation.

" **Serious Eye Damage/Irritation:** Causes mild irritation.

Signs and Symptoms: High concentrations can cause minor respiratory irritation, headache, drowsiness, dizziness, loss of coordination, disorientation and fatigue. Ingestion can cause irritation of the digestive tract, drunkenness and stupor.

Skin Sensitization: None reported

Respiratory Sensitization: None reported

Germ Cell Mutagenicity: Ethanol has been classified as a category 2 mutagen.

Carcinogenicity: Ingestion of alcoholic beverages has been classified by NTP and IARC as carcinogenic to humans (Category 1A). Occupational exposures to ethanol, a minor component, and exposures other than by ingestion (i.e., dermal and inhalation) have not been associated with cancer in humans. This material is not listed by NTP, IARC or OSHA.

Reproductive Toxicity: Adverse reproductive effects are not anticipated from inhalation or dermal exposure. Excessive consumption of alcoholic beverages during pregnancy has been associated with effects on the developing fetus referred to collectively as the fetal alcohol syndrome. The effects most frequently manifested include psychomotor dysfunction, growth retardation and a characteristic cluster of facial anomalies. It also affects the reproductive system including reduced sperm count and motility and loss of libido in men, abnormal menstrual function, and decreased plasma estradiol and progesterone levels in women.

Methanol, a component, has produced fetotoxicity in rats and teratogenicity in mice exposed by inhalation to high concentrations of methanol vapors.

Specific Target Organ Toxicity (Single Exposure): May cause drowsiness or dizziness.

Specific Target Organ Toxicity (Repeated Exposure): Chronic alcoholism has been associated with damage to the liver in humans (e.g., cirrhosis of the liver). Excessive consumption of alcoholic beverages has also been associated with adverse effects on the central nervous system, digestive system and cardiovascular system.

12. ECOLOGICAL INFORMATION

" **Toxicity:** Material is practically non-toxic to aquatic organisms on an acute basis.

Ingredient Name	Result	Species	Exposure
Propylene glycol,	Acute EC50 = 40,613 mg/L Marine Water	Fish	96 hours
	Acute LC50 = 18,340 mg/L Fresh Water	Water Flea	48 hours
Ethanol	Acute LC50 = 14.2 g/l Fresh Water	Fish	96 hours
	Acute LC50 > 100 mg/l Fresh Water	Invertebrate	96 hours

Product #(s) – CBRVAFAN, CBRVAFT

Persistence and Degradability: Propylene glycol and ethanol biodegrade easily in water and soil.

Propylene glycol BOD5 = 69.0% Ethanol COD = 1.99 gO₂/g of ethanol
COD = 1.53 m/mg

Bioaccumulative Potential: Risk of bioaccumulation of Propylene glycol, the major component, is low (BCF <100 and low log K_{ow} <3). BCF = 0.09 - <10 LogK_{ow} = -1.07

Risk of bioaccumulation of Methanol is low (BCF <500 and low log K_{ow} <4). BCF = 0.2 - <10
LogK_{ow} = -0.35

Mobility in Soil: Propylene glycol, the major component, has a very low Henry's constant (1.2E-08 atm m³/mol), volatilization from natural bodies of water or moist soil is not expected to be an important fate process. Potential for mobility in soil is very high (K_{oc} between 0 and 50). Using read across data from methanol, ethanol is highly mobile. Adsorption coefficient (K_{oc}) solid phase/liquid phase = 1

Other Adverse Effects: None known

13. DISPOSAL CONSIDERATIONS

The generator of a waste is always responsible for making proper hazardous waste determinations and needs to consider state and local requirements in addition to federal regulations.

Recycle wherever possible. Large volumes may be suitable for re-distillation or, if contaminated, incinerated. Can be disposed of in a sewage treatment facility.

This material, if discarded as produced, would not be a federally regulated RCRA "listed" hazardous waste. However, it would likely be identified as a federally regulated RCRA hazardous waste for the following characteristic of ignitability (D001). See Sections 7 and 8 for information on handling, storage and personal protection and Section 9 for physical/chemical properties. It is possible that the material as produced contains constituents which are not required to be listed in the MSDS but could affect the hazardous waste determination. Additionally, use which results in chemical or physical change of this material could subject it to regulation as a hazardous waste.

14. TRANSPORT INFORMATION

DOT/TDG Proper Shipping Name: Flammable Liquid n.o.s (ethanol)

DOT/TDG Identification Number: UN1170

DOT Hazard Class: 3 / **TDG Hazard Class:** 3 (6.1)

DOT/TDG Packing Group: II

ERG Guide Number: 131

Marine Pollutant: No

15. REGULATORY INFORMATION

TSCA: All components are listed on the TSCA inventory.

DSL: All components are listed on the DSL inventory.

OSHA (Occupational Safety and Health Administration): This material is considered to be hazardous as defined by the OSHA Hazard Communication Standard.

" This material has not been identified as a carcinogen by NTP, IARC or OSHA

Product #(s) – 95806

CERCLA/SARA – Section 302 Extremely Hazardous Substances and TPQ (in pounds): This material does NOT contain chemicals subject to the reporting requirements of SARA 302 and 40 CFR 355 Appendix A and B.

" **EPA (CERCLA) Reportable Quantity (in pounds):** This material contains the following chemicals subject to the reporting requirements of 40 CFR 302.4.

Component	Concentration	RQ
Methanol	0.6-0.75%	5000 lbs

CERCLA/SARA - Sections 311/312 (Title III Hazard Categories):

" Acute: No Chronic: No Fire: No Reactivity: No

CERCLA/SARA – Section 313 and 40 CFR 372: This material contains the following chemicals subject to the reporting requirements of SARA 313 and SARA Title III and 40 CFR:

Component	Concentration	de minimis
Methanol	0.6-0.75%	1%

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material contains detectable chemicals known to the State of California to cause cancer and/or reproductive toxicity.

Component	Concentration	Effect
Methanol	0.6-0.75%	Developmental
Ethanol	< 20%	Developmental

Canada:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the Regulations.

WHMIS Hazard Class: B3, D2A, D2B

16. OTHER INFORMATION

Issue Date: JUNE 1, 2015

Previous Issue Date: May 15, 2012

Change: Minor wording changes

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

The information in this document is believed to be correct as of the date issued. **HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THIS INFORMATION, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE.** This information and product are furnished on the condition that the person receiving them shall make his own determination as to the suitability of the product for this particular purpose and on the condition that he assumes the risk of his use thereof.