

**MATERIAL SAFETY DATA SHEET**  
**ANTIFREEZE FOR RV & MARINE POTABLE WATER SYSTEMS**  
**ARCTIC BAN -50 Antifreeze**

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**= SECTION I - COMPOSITION / INFORMATION ON MATERIALS =**

WEIGHT REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE mm Hg @ TEMP	PERCENT
-Ethanol	64-17-5	44.6 68 F	≈ 20



**Combustible**

**===== SECTION II - MANUFACTURER IDENTIFICATION =====**

MANUFACTURER'S NAME: **Camco Manufacturing, Inc.**  
ADDRESS: **121 Landmark Drive**  
**Greensboro, NC 27409**

EMERGENCY PHONE: **1-800-535-5053** DATE REVISED: 07/09/2007  
INFORMATION PHONE: 336-668-7661  
NAME OF PREPARER: **CAMCO MANUFACTURING INC.**  
**121 LANDMARK DR.**  
**GREENSBORO, NC 27409**  
**1-800-334-2004**

**===== SECTION III - PRODUCT INFORMATION =====**

PRODUCT NAME: **ARCTIC BAN -50 ANTIFREEZE**  
NFPA CODES: Health 1  
Flammability 2  
Reactivity 0

Note - NFPA ratings are based on a 0-4 rating scale with 0 representing minimal hazards or risks and 4 representing extreme hazards or risks.

PRODUCT CODE: 30807

**===== SECTION IV - PHYSICAL/CHEMICAL CHARACTERISTICS =====**

**BOILING RANGE:** 185 – 200° F  
**VAPOR DENSITY:** NOT DETERMINED  
**SOLUBILITY IN WATER:** Completely Soluble  
**APPEARANCE AND ODOR:** Clear, red liquid - slight odor  
**SPECIFIC GRAVITY (H2O=1):** 0.97 @ 70°F  
**EVAPORATION RATE:** NOT DETERMINED

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===== SECTION V - FIRE AND EXPLOSION HAZARD DATA =====

**FLASH POINT:** 110° F (43° C)                      **METHOD USED:** TCC

**FLAMMABLE LIMITS IN AIR BY VOLUME-** LOWER: 3.3%      UPPER: 21.0%

**EXTINGUISHING MEDIA:** Dry chemical, carbon dioxide, water spray or foam. Use water spray to cool fire-exposed containers. Water or foam may cause frothing.

**SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:** Self Contained breathing apparatus and protective clothing are recommended. Use water spray to keep fire exposed containers cool.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None known

**\*COMBUSTIBLE\***

===== SECTION VI - REACTIVITY DATA =====

**STABILITY:** Stable

**CONDITIONS TO AVOID:** Excessive heat and strong oxidizers.

**INCOMPATIBILITY (MATERIALS TO AVOID):** Strong oxidizing agents.

**HAZARDOUS DECOMPOSITION OR BYPRODUCTS:** Carbon monoxide and other oxides of carbon.

**HAZARDOUS POLYMERIZATION:** Do not occur

===== SECTION VII - HEALTH HAZARD DATA =====

**INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:** Not expected to have any adverse effects.

**SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

**EYE CONTACT:** Slight irritant

**SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

**SKIN ABSORPTION:** No evidence of harmful effects from available information.

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**INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

**INGESTION:** Effects of ethanol ingestion is dependant on the amount and rate of consumption. Short term overexposure may result in drunkenness, depression of the central nervous system, nausea, vomiting, diarrhea, or liver damage.

**HEALTH HAZARDS (ACUTE AND CHRONIC):** None known.

**CARCINOGENICITY:** No

**NTP CARCINOGEN:** No

**IARC MONOGRAPHS:** No

**OSHA REGULATED:** No

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:**

None known

**===== SECTION VIII - PRECAUTIONS FOR SAFE HANDLING AND USE =====**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Contain spill if possible, contain with absorbent materials such as clay or soil, and shovel up. Avoid skin and eye contact.

**WASTE DISPOSAL METHOD:** Dispose of in accordance with federal, state and local regulations.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:**

Store in a cool, dry, well ventilated area.

**OTHER PRECAUTIONS**

Store in closed containers in a cool, dry, well ventilated area. Keep away from sparks and open flame.

**===== SECTION IX - CONTROL MEASURES =====**

**RESPIRATORY PROTECTION**

No special respiratory equipment is recommended under normal use.

**VENTILATION:** General ventilation is sufficient.

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**PROTECTIVE GLOVES:** Wear appropriate impermeable gloves

**EYE PROTECTION:**

Use chemical safety glasses, goggles, or faceshields for eye protection.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** It is the responsibility of the user to determine the proper protective equipment that is needed based on how the product will be used.

**WORK/HYGIENIC PRACTICES:** Wash thoroughly after handling.

===== **SECTION X - EMERGENCY AND FIRST AID PROCEDURES** =====

**INHALATION:** Not likely to have any adverse effects, however if breathing becomes difficult move to fresh air. If irritation persists, get medical attention.

**EYE CONTACT:** Flush with large quantities of water for 15 minutes and seek medical attention.

**SKIN:** Remove contaminated clothing and wash contaminated skin with large amounts of soap and water. If irritation persists, get medical attention. Launder clothing before reuse.

**INGESTION:** Dilute by drinking water. Never give an unconscious person anything by mouth. Ingestion of small quantities, are not likely to pose a hazardous threat. Seek the advice of medical personnel as to whether or not to induce vomiting. If more than several mouthfuls are swallowed, abdominal discomfort, nausea, and diarrhea may occur. If large quantities are consumed, obtain immediate medical attention.

=== **SECTION XI - 49CFR (US) & TDG (Canadian) Transportation Information** ===

US 49 CFR DOT & TDG section 1.17 Shipping Description: ORM-D consumer commodity (for ground transportation with in the continental US & Canada)

===== **SECTION XII - DISCLAIMER** =====

To the best of our knowledge, the information contained herein is accurate, obtained from sources believed by Camco Manufacturing, Inc., to be accurate. However, the information is provided without any representation or warranty, expressed or implied, regarding its accuracy or correctness.

The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for

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loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. It is the responsibility of the user to determine the safety, toxicity and suitability of his own use, handling and disposal of this product.