



MATERIAL SAFETY DATA SHEET

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1. PRODUCT AND COMPANY IDENTIFICATION

FOR MEDICAL AND TRANSPORTATION EMERGENCIES
 24 Hour INFOTRAC (US and CANADA): **800-535-5053**

PRODUCT NAME
 UNITED 317

USE/DESCRIPTION
 Cooling System Anti-Freeze

REVISION DATE
 January 28, 2013

HMIS III HEALTH (0 = Maximum Safety) **0**

Always follow Label Directions and Cautions.

* Chronic	2 Moderate
4 Severe	1 Slight
3 Serious	0 Minimal

See Hazards Identification Section of this MSDS for more detailed information.

PHYSICAL HAZARD (0 = Maximum Safety) **0**

Susceptible to Release of Energy.

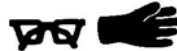
4 May detonate-vacate area if materials are exposed to fire.	2 Violent chemical change possible-use hose stream from distance
3 Strong shock of heat may detonate-use monitors from behind explosion resistant barriers.	1 Unstable if heated-use precaution.
	0 Normally stable.

FLAMMABILITY (0 = Maximum Safety) **1**

Susceptibility of Material to Burning.

4 Extremely flammable	1 Must be preheated
3 Ignites at normal temperature.	to burn.
2 Ignites when moderately heated.	0 Will not burn.

PERSONAL PROTECTION: B



2. COMPOSITION/INFORMATION ON INGREDIENTS

In accordance with Federal Regulation 29 CFR 1910.1200, all materials in this product are considered non-hazardous.

3. HAZARDS IDENTIFICATION

OSHA Hazard Communication standard

This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Eyes: May cause slight temporary eye irritation. Corneal injury is unlikely. Mist may cause eye irritation.

Skin: Prolonged contact is essentially nonirritating to skin. Repeated exposure may cause flaking and softening of the skin.

Skin Absorption: Prolonged skin contact is unlikely to result in absorption of harmful amounts.

Inhalation: At room temperature, vapors are minimal due to low volatility. Mist may cause irritation to upper respiratory tract.

Ingestion: No hazards anticipated from swallowing small amounts incidental to normal handling. Very low toxicity if swallowed.

4. FIRST AID MEASURES

General advice: If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Eyes: Flush with plenty of water for at least 15 minutes and call a physician or poison center.

Skin: Wash skin with plenty of water.

Inhalation: Remove to fresh air. If irritation persists, call a physician or poison center.

If Swallowed: Low in toxicity. No emergency medical treatment necessary.

5. FIRE FIGHTING MEASURES

Flash Point (PMCC): 218°F / 103°C

Explosive Limits: Lower (LEL): 2.6% Upper (UEL): 12.5%

Flame Projection (Aerosol): N/A

Hazardous Products of Combustion: During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds.

Fire and Explosion Hazards: This material can release flammable vapors if the temperature is at or above its flashpoint. These vapors when mixed with air will burn and can be explosive in confined spaces. Mists and sprays may be flammable below the flashpoint.

Extinguishing Media: Water fog or fine spray, Dry chemical fire extinguishers, Carbon dioxide fire extinguishers, Foam. Alcohol resistant foams (ATC type) are preferred. Do not use direct water stream-may spread fire.

Fire Fighting Instructions: For fires involving this material, do not enter any enclosed or confined fire space without self-contained breathing apparatus w/full protective clothing. These vapors when mixed with air will burn and can be explosive in confined spaces. Mists and sprays may be flammable below the flashpoint.

6. ACCIDENTAL RELEASE MEASURES

Small Spills: Clean up with absorbent material. Collect material in suitable and properly labeled open container. May cause a slipping hazard.

Large Spills: For larger quantities, dike spill and collect on suitable absorbent. Place in a suitable and properly labeled open container. . May cause a slipping hazard.

7. HANDLING AND STORAGE

Keep container tightly closed when not in use. Store in a cool, dry place. Store away from direct sunlight or ultraviolet light. Do not let the container freeze as it may split or rupture. Use with adequate ventilation.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes: Safety glasses recommended.

Skin: Chemical resistant gloves or rubber gloves recommended.

Respiratory: None required if good ventilation is maintained. If TLV is exceeded, use an approved particulate respirator. The following should be effective types of air-purifying respirators: Organic vapor cartridge with a particulate pre-filter.

Engineering Controls: Provide adequate ventilation and local exhaust recommended.

Other Protective Clothing or Equipment: Shirts with long sleeves are recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: 370°F/ 188°C **Specific Gravity:** 1.038 (H₂O=1) **Vapor Pressure:** 0.08 @ 68°F/20°C **Melting Point:** ND

Vapor Density: 2.62 **Evaporation Rate:** .01 (Butyl acetate=1) **Solubility in Water:** Complete **pH:** 6-7

Appearance and Odor: Colorless, nearly odorless liquid.

10. STABILITY AND REACTIVITY

Hazardous Polymerization: Will not occur.

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

Chemical Stability: Stable

Incompatibility: Strong oxidizers, strong acids, & strong bases.

11. TOXICOLOGICAL INFORMATION

Carcinogenicity (NTP/IARC/OSHA): None

California Proposition 65: Does this product contain chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm? None

12. ECOLOGICAL INFORMATION

Material is practically non-toxic to aquatic organisms on an acute bases.\

Persistence and Degradability: Material is readily biodegradable. Passes OECD test(s) for read biodegradability. Biodegradation may occur under anaerobic conditions (in absence of oxygen).

13. DISPOSAL CONSIDERATIONS

DO NOT DUMP INTO SEWERS, ON THE GROUND, OR INTO A BODY OF WATER.

Consult your local, state and federal regulations for proper disposal guidelines. Disposal regulations may be different for each state and/or locality.

14. TRANSPORT INFORMATION

DOT: Not regulated for transportation.

TDG: Not regulated for transportation.

IMDG & ICAO/IATA: Not regulated for transportation.

15. REGULATORY INFORMATION

VOC (Volatile Organic Compounds): None

TSCA (Toxic Substances Control Act): Listed

SARA Title III Section 302 EHS: None

SARA Title III Section 311/312: None

SARA Title III Section 313 Toxic Chemicals: None

WHMIS Classification:

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

16. OTHER INFORMATION

Read and follow all label directions and precautions before using this product. These products are intended for industrial and institutional use only. NOT FOR HOUSEHOLD USE OR RESALE. KEEP OUT OF REACH OF CHILDREN.

UNITED 317 Cooling System Anti-Freeze

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