

CTS Industries, Inc.

P.O. Box 12426 Roanoke, Virginia ~ 540-989-8570 ~ Fax 540-989-8571

PRODUCT NAME: CTS 50-DEG

ISSUE DATE: 11/21/00

REVISION DATE: 11/16/04

Material Safety Data Sheet

1. Identification

Product Name: CTS 50-DEG (aka Feezecon 45 and Feezecon 50)
Product Description: Complex Mixture

RESPONSIBLE PARTY	CHEMICAL EMERGENCY
CTS Industries, Inc. P.O. Box 12426 Roanoke, VA 24075 (540) 989-8570	CHEMTREC (800) 424-9300 (24 Hours)

2. Hazardous Ingredients

Hazardous Components	Hazardous %	Product CAS #
Diethylene Glycol	50	111-46-6
Corrosion Inhibitor	1 - 10	7632-00-0

3. Physical Data

Boiling Point: 230°F
Freezing Point: <15°F
Vapor Pressure (mm Hg): 6
Vapor Density (Air = 1): Less than air
Solubility in H₂O: Complete
Appearance / Odor: Clear blue with mild characteristic odor
Specific Gravity (H₂O = 1): 1.058
Evaporation Rate: Less than 1
pH: 7 - 8

4. Fire and Explosion Hazard Data

Flash Point: 250°F
Lower Flame Limit: Not determined
Higher Flame Limit: Not determined

Unusual Fire and Explosion Hazards: None

Extinguishing Media: Alcohol foam, water fog, carbon dioxide or dry chemical.

Fire Fighting Instructions: Self contained breathing apparatus with full face shield operated in pressure demand.

5. Health Hazard Data

Threshold Limit Value: None established.

Over Exposure Effects: Nervous system depression. Four fluid ounces can be fatal and repeated ingestion of small amounts can cause bladder stones, liver and kidney damage.

First Aid Procedures: **Eye:** Flush with clear water for 15 minutes, if irritation persists, consult a physician.

Skin: Wash skin with soap and water. Launder contaminated clothing before reuse.

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Inhalation: Remove victim to fresh air. If breathing has stopped or victim is having problems breathing, apply oxygen and consult a physician.

Ingestion: Induce vomiting at once and call a physician.

6. Reactivity Data

Chemical Stability: Stable

Conditions to Avoid: None

Incompatible Materials: Strong oxidizing agents

Hazardous Polymerization: Will not occur

7. Spill or Leak Procedure

Spill: Contain spill for salvage or disposal. Avoid run-off into storm drain and ditches. Absorb small amounts on paper, vermiculite or similar material.

Waste Disposal: Chemical incinerator; biological treatment landfill. Consult local, state and federal pollution guidelines.

8. Special Protection

Respiratory: Organic vapor respirator.

Gloves: Impervious.

Eye: Chemical safety goggles or face shield.

Other: Eyewash station and safety shower in work area.

Handling and Storage: Follow procedures specified in the national fire protection association codes and standards for handling combustible liquids. Prevent skin and eye contact. Avoid breathing vapors or aerosols.

9. Special Precautions

Hazard Class: Not DOT Regulated

DOT Shipping Name: Coal Antifreeze

10. Ecological Information

(@99% pure DEG)

Fathead Minnow:	LC50 > 100ppm (96h-static test)
Mosquito fish :	TLM > 32,000 ppm (96h)
Goldfish:	LC50 > 5,000 ppm (24h)
Guppy, P. reticulata:	LC50 = 61,072 ppm (7d)
Water flea, D. manga:	LC50 = 0.3-1 ppm (96h-static test)
Algae Species:	
S. capricornutum:	No Growth Inhibition at 100 ppm (static test)
M. aeruginosa:	Threshold Growth Inhibition = 1700 ppm
S. quadricauda:	Threshold Growth Inhibition = 2700 ppm

Environmental Fate Diethylene glycol will degrade at a moderate rate. Laboratory studies show that at least 10 days are required for degradation in river water.

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