

SUPERCOOL ESTER CHARGE + U/V DYE

MATERIAL SAFETY DATA SHEET

Emergency Phone Number: (904) 378-3232

Date: 12/06/2006

SECTION 1

Company Name:
Address:
Phone/Fax:
Trade Name:
Chemical Name:
Chemical Family:
Formula:
CAS#:
Applications:

COMPANY IDENTIFICATION AND CHEMICAL PRODUCT

Supercool TSI
3574 Corona Street, Lake Worth, Florida 33461
561-582-2245 / 561-582-1499
Supercool Ester Oil Charge + U/V Dye
R134A & Synthetic Hydrocarbon mixture
R134A & Synthetic Hydrocarbon mixture
NA Mixture
NA Mixture
Polyolester Refrigeration Compressor Lubricant is used as a fluid in HFC and other refrigeration systems.

SECTION 2

Ingredient:
1,1,1,2-Tetrafluoroethane

HAZARDOUS INGREDIENTS

<u>OSHA PEL / ACGIH TLV:</u>	<u>CAS Number:</u>	<u>Percent:</u>
1000PPM : TWA	811-97-2	50%

SECTION 3

Appearance:

Physical Characteristics

Clear liquid & gas, yellow to green tint.

SECTION 4

Eyes:

Skin:

Inhalation:

Ingestion:

FIRST AID MEASURES

Flush with clean, lukewarm water (low pressure) occasionally lifting eyelids. Have eyes examined and treated by medical personnel. R134A liquid splashes or vapor may cause freeze burns.

R134A in the liquid form in this product may cause freeze burns (Frostbite-like lesions). Thaw affected area with warm water. Remove oil from skin by washing affected areas thoroughly with soap and water. Wash contaminated clothing before reuse. If symptoms (irritations or blistering) develop, get medical attention. Exposure to very high vapor concentrations can induce anesthetic effects progressing from dizziness, weakness, nausea, to unconsciousness. It can act as an asphyxiant by limiting available oxygen, at very high doses, cardiac sensitization to the circulating epinephrine-like compounds can result in fatal cardiac arrhythmias. Avoid breathing oil mists. Remove victim to fresh air. Give artificial respiration if not breathing. Oxygen may be given by qualified personnel if breathing is difficult. In the event of cardiac arrest, apply external cardiac massage. Do not administer adrenaline or similar sympathomimetic drugs as cardiac arrhythmias may result. Get immediate medical attention.

Do not induce vomiting. Force fluids. Lubricant has laxative effect. R134A liquid mixed with lubricant most unlikely to ingest.

SECTION 5

Flash Point:
Flammable Limits:
Auto Ignition Temp:
Fire & Explosion Hazards:
Extinguishing Media:
Fire Fighting Procedures:

FIRE FIGHTING MEASURES

440°F min
N/A
N/A
LOW FIRE HAZARD - Do not cut, drill, or weld empty containers.
Dry chemical foam, water spray, carbon dioxide for small fires.
Contain liquid, cover with extinguishing agent, use water spray to cool fire exposed containers and as protective screen. Do not point solid water stream directly into burning fluid to avoid spreading.

SECTION 6

Spill or Leak:

Waste Disposal:

ACCIDENTAL RELEASE MEASURES

Contain Spill, absorb with inert absorbent such as dry clay, sand, diatomaceous earth, commercial sorbents or recover using pumps. Scoop up used absorbents into approved receptacles.

Dispose in approved, secure landfill site or through a licensed waste reclaimer.

SECTION 7

Storage Temp - min / max:
Shelf Life:
Precautions:

HANDLING AND STORAGE

-20°F / 120°F
Indefinite in original container
Not for internal use. Avoid contact with skin, eyes, clothing.

SECTION 8

Eye Protection:
Skin Protection:
Respiratory Protection:

Ventilation:
Exposure Limits:

EXPOSURE CONTROL / PERSONAL PROTECTION

Chemical Goggles if splashing is likely or high pressure systems are used.
Nitrile gloves are recommended.
If mist is generated, wear approved organic respirator suitable for oil mist areas with sufficient oxygen.
General ventilation.
N/A

SECTION 9

Appearance:
Boiling Point:
Vapor Pressure:
Specific Gravity:
Volatiles, % Volume:
Odor:
Solubility in Water:
Evaporation Rate:
Viscosity:

PHYSICAL AND CHEMICAL PROPERTIES

Clear liquid & gas, yellow to green tint.
-40°F (R134A), >570°F Synthetic Polyolester Hydrocarbon
79 PSIG @ 25°C (R134A), <0.001 kPa @ 25°C
0.85-.089 Synthetic Polyolester Hydrocarbon
50%
Characteristic odor
Negligible
N/A
@40°C Varies depending on grade (Synthetic Polyolester Hydrocarbon)

SECTION 10

Stability:
Hazardous Polymerization:
Incompatibilities:
Decomposition Products:

REACTIVITY

Product is STABLE
Will not occur.
Strong oxidizers.
R134A – Highly Toxic decomposition products occur when burned. Lubricant -- Analogous compounds evolve, carbon monoxide, carbon dioxide, and other undefined fragments when burned.

SECTION 11

General:

TOXICOLOGICAL INFORMATION

N/A

SECTION 12

General:

ECOLOGICAL INFORMATION

N/A

SECTION 13

Waste Disposal:

DISPOSAL CONSIDERATIONS

Used product must be disposed of in accordance with Federal, State, and Local environmental control regulations. Incineration is preferred. DO NOT HEAT OR CUT EMPTY CONTAINERS WITH ELECTRIC OR GAS TORCH.

SECTION 14

DOT Ship Name:
D.O.T. Hazard Class:
UN / ID #:
IMDG Hazard Class:
UN / ID #:
IATA Hazard Class:
UN / ID #:
Product Label:

TRANSPORTATION INFORMATION

1,1,1,2-Tetrafluoroethane & Synthetic Polyolester Hydrocarbon mixture
N/A
N/A
2.2
1950 Aerosols
9
ID8000 Consumer Commodity
Supercool Ester Oil Charge + U/V Dye

SECTION 15

OSHA STATUS:
TSCA STATUS:
RCRA STATUS:

REGULATORY INFORMATION

Non-Hazardous under 29 CFR 1910.1200
N/A
If Polyolester is discarded in its purchased form it is not considered to be a hazardous waste either by listing or characteristic. However, it is the responsibility of the product user to determine at the time of disposal, whether the material being disposed of is a hazardous waste (40 CFR 261.20-24).

SECTION 16

General:

OTHER INFORMATION

This information is furnished without warranty, expressed or implied, except that is accurate to the best knowledge of TSI. The data on this sheet related only to the specific material designed herein. TSI assumes no legal responsibility for the use or reliance upon these data.