

# SUPERCOOL R-134a REFRIGERANT PLUS

## Part # 24278

### MATERIAL SAFETY DATA SHEET

Emergency Phone Number: 904-378-3232

Date: January 4, 2009

#### SECTION 1

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

#### COMPANY IDENTIFICATION AND CHEMICAL PRODUCT

Tire Seal, Inc.  
3574 Corona Street, Lake Worth, FL 33461  
561-582-2245 / 561-582-1499  
Supercool R-134a Refrigerant Plus  
Synthetic Hydrocarbon Blend and R134a  
Synthetic Hydrocarbon Blend and R134a  
Proprietary  
Proprietary  
Supercool R-134a Refrigerant Plus is used as Oil Charge, Performance Enhancer, and Leak Stop in R-134a refrigeration systems.

#### SECTION 2

Ingredients:  
1,1,1,2-Tetrafluoroethane  
Synthetic Hydrocarbon Blend

#### HAZARDOUS INGREDIENTS

OSHA PEL / ACGIH TLV:	CAS NUMBER	PERCENT
1000PPM : TWA	811-97-2	84%
Non-Hazardous	NA	16%

#### SECTION 3

Appearance:

#### PHYSICAL INGREDIENTS

Clear liquid & gas, yellow/green tint

#### SECTION 4

Eyes:

#### 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.

Skin:

R134a in liquid form in this product may cause freeze burns (Frost-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.

Inhalation:

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.

Ingestion:

Do not induce vomiting. Force liquids. Has laxative effect. R134a liquid mixed with lubricant most unlikely to digest.

#### SECTION 5

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

#### FIRE FIGHTING MEASURES

425°F min  
N/A  
N/A  
LOW FIRE HAZARD – Do not cut, drill, or weld 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

#### ACCIDENTAL RELEASE MEASURES

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

Waste Disposal:

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

## SECTION 7

Max. Storage Temp.:  
Shelf Life:

Precautions:

## SECTION 8

Eye Protection:

Ventilation:

Exposure Limits:

## SECTION 9

Appearance:

Boiling Point:

Vapor Pressure:

Specific Gravity:

Volatiles, % Volume:

Odor:

Solubility in Water:

Evaporation Rate:

Viscosity:

## SECTION 10

Stability:

Hazardous Polymerization:

Incompatibilities:

Decomposition Products:

## SECTION 11

General:

## SECTION 12

General:

## SECTION 13

Waste Disposal:

## SECTION 14

DOT Ship Name:

D.O.T. Hazard Class:

UN / ID #:

IMDG Hazard Class:

UN / ID #:

IATA Hazard Class:

Product Label:

## SECTION 15

OSHA STATUS:

TSCA STATUS:

RCRA STATUS:

## SECTION 16

General:

## HANDLING AND STORAGE

120°F

Indefinite in original container

Not for internal use. Avoid contact with skin, eyes, clothing

## EXPOSURE CONTROL / PERSONAL PROTECTION

Chemical Goggles if splashing is likely or high pressure systems are used. PVC or Nitrile gloves are recommended if prolonged contact with skin is to occur. Normally not necessary. If mist is generated, wear approved organic respirator suitable for oil mist areas with sufficient oxygen.

General ventilation.

Acute LD<sub>50</sub>>5000 mg/Kg (rat : oral)

## PHYSICAL AND CHEMICAL PROPERTIES

Clear liquid & gas, yellow/green tint.

-40°F (R134A), >570°F Synthetic Hydrocarbon Blend

79 PSIG @ 25°C (R134A), <0.001 kPa @ 25°C

0.85-.097 Synthetic Hydrocarbon Blend

0%

Very Slight hydrocarbon odor

Negligible

Nil

@40°C Varies depending on grade

## REACTIVITY

Product is STABLE

Will not occur.

Strong oxidizers.

R134A – Highly Toxic decomposition products occur when burned. Synthetic Hydrocarbon Blend -- Analogous compounds evolve, carbon monoxide, carbon dioxide, and other undefined fragments when burned.

## TOXICOLOGICAL INFORMATION

Acute LD<sub>50</sub> > 2000 mg/Kg (rat : oral)

## ECOLOGICAL INFORMATION

Biodegradable CEC L33A93 > 80% @ 45 Days.

## 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.

## TRANSPORTATION INFORMATION

Aerosol A/C Oil Charge

ORMD

1950 Aerosols

2.2

1950 Aerosols

2.2

Supercool R-134a Refrigerant Plus

## REGULATORY INFORMATION

Non-Hazardous under 29 CFR 1910.1200

N/A

If discarded in its purchased form this product would not 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).

## OTHER INFORMATION

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