

# Material Safety Data Sheet

Date of Preparation: 12/5/02

MSDS No. 304D

## Section 1 – Chemical Product and Company Identification

**Product Name:** QUEST R134a SUPER COOL W/DISPENSER–15 OZ

**Part Number(s):** 304D

**CAS Number:** NOT APPLICABLE TO MIXTURES

**Product Class:** Automotive product

**Manufacturer:** E F Products, Inc. 1860 Crown Drive, Suite 1400, Dallas, TX 75234

**Information Phone No.:** 1-888-396-0422 **Emergency Phone No.:** 1-888-396-0422

## Section 2 – Composition/ Information on Ingredients

Ingredient Name	CAS Number	OSHA TWA	ACGIH TLV
1,1,1,2-Tetrafluoroethane	811-97-2	-	-
Polyalkylene Glycol (PAG)	-	-	-
Cyclohexanone	108-94-1	20ppm	20ppm
Methylene Chloride	75-09-02	25ppm	25ppm
Proprietary Ingredients			

## Section 3 – Physical and Chemical Properties

**Physical State:** Liquid

**Appearance/Odor:** Clear/Etheral odor

**% Volatile:** N/A

**Evaporation Rate:** N/A

**Boiling Range:** -40F

**Vapor Density (Air=1):** Less than 5.0

**Specific Gravity (@ C20 °C):** 0.99-1.01

**Vapor Pressure:** 79 psig/Hg @ 25C

## Section 4 – Fire Fighting Measures

**Flash Point:** Not Determined

**Flash Point Method:** N/A

**LEL:** N/A

**Extinguishing Media:** Water/ Dry chemicals/CO2 Foam

**Unusual Fire or Explosion Hazards:** Heavy vapors can suffocate. Highly toxic decomposition products.

**Special Fire-Fighting Procedures:** Self-contained breathing apparatus with full facepiece and protective clothing if involved in a fire of other materials.

## Section 5 – Stability and Reactivity

**Stability:** Stable

**Polymerization:** Will not occur

**Incompatibilities & Conditions to Avoid:** May react violently with sodium, potassium and other alkali or alkaline earth metals, including magnesium and its alloys. Reacts with other finely divided metals.

**Hazardous Decomposition Products:** Hydrogen fluoride, possible trace amounts of carbonyl fluoride.

## Section 6 – Health Hazard Information

**Primary Entry Routes:** Skin, dermal, inhalation and ingestion

**Target Organs:** Eyes, skin, respiratory system

**Effects of Overexposure:** Can cause eye burns. Prolonged and repeated contact can cause skin irritation.

Possibly dermatitis.

## Section 6 – Health Hazard Information

### Emergency and First Aid Procedures

**Inhalation:** Exposure to very high concentration can induce anesthetic effect. Can act as an asphyxiant by limiting oxygen. Cardiac sensitization to circulating epinephrine-like compounds can result in fatal cardiac arrhythmias. Remove to fresh air. Give artificial respiration if not breathing. Give oxygen if breathing labored. If cardiac arrest, apply external cardiac massage. Do not administer adrenaline or similar drugs as cardiac arrhythmias may result. Call physician immediately.

**Eye Contact:** Liquid splashes or vapor spray may cause freeze burns. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for 15 minutes. Have eyes examined and treated by medical personnel.

**Skin Contact:** Liquid form of this material may cause freeze burns (frostbite-like lesions). Thaw affected areas with water, remove contaminated clothing carefully. Wash affected areas of skin thoroughly with plenty of warm water. Obtain medical attention. Prolonged contact with skin may cause red skin irritation or dermatitis. Remove oil from skin by washing well with soap and water. Launder clothing before reuse.

**Ingestion:** Extremely unlikely to occur in use. May cause slight irritation if ingested but not toxic. Induce vomiting, seek medical attention.

## Section 7 – Spill, Leak, and Disposal Procedures

Keep at temperature not exceeding 113 DEG F. Keep containers dry. Keep away from direct sunlight, heat. See SEC 09 Special Precautions for industrial hygiene control measures. Clean up any oil spill. Prevent entry into sewers and water ways. Absorb with inert absorbent. Place used rags and absorbent in closed metal containers.

## Section 8 – Exposure Controls / Personal Protection

**Ventilation** General mechanical ventilation. Oil mist inhalation should be avoided.

**Protective Clothing/Equipment:** Chemical tight goggles, full faceshield in addition if splashing is possible. Nitrile gloves with cotton knit liner. Apron, arm covers or full body suit, depending on conditions.

**Safety Stations:** Ventilate low-lying areas such as sumps or pits where dense vapors may collect. Use local exhaust to control exposures. Provide eyewash station and safety shower in work area.

## DOT Transportation Data

<u>PART NUMBER(S)</u>	<u>SHIPPING NAME</u>	<u>HAZARD CLASS IDNO.</u>	<u>PACKING GROUP</u>
304D	Consumer Commodity	ORM-D N/A	N/A

**Disclaimer:** All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency. Conditions of use are beyond our control, therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product. Users also assume all risks in regards to the publications of use of, or reliance upon, information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process.