

Material Safety Data Sheet

Date of Preparation: 12/12/03

MSDS No. 345

Section 1 – Chemical Product and Company Identification

Product Name: QUEST 134a Refrigerant w/Sub Zero Synthetic Oil and in-line gauge
Part Number(s): 345
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 PEL	ACGIH TWA
1,1,1,2- Tetrafluoroethane	811-97-2	-	-
Polyol Esters	Proprietary		
VPS 15	68153-20-8	N/A	N/A
Proprietary Ingredients			

Section 3 – Physical and Chemical Properties

Physical State: Liquid
Appearance/Odor: Yellow/Bland Odor
% Volatile: N/A
Evaporation Rate: N/A

Boiling Range: -40F
Vapor Density (Air=1): Less than 5.0
Specific Gravity (@C20 °C): 1.0
Vapor Pressure: Negligible/Hg @ 20C

Section 4 – Fire Fighting Measures

Flash Point: N/A
Flash Point Method: N/A
LEL: N/A
Extinguishing Media: Water spray, dry chemical, alcohol foamer, CO2.
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: Strong oxidizers.
Hazardous Decomposition Products:

Section 6 – Health Hazard Information

Primary Entry Routes: Eyes, dermal, inhalation and ingestion
Target Organs: Eyes, skin, respiratory system
Effects of Overexposure: N/A if handled in accord with good industrial hygiene practice.
Chronic Effects: No data available.

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.

DOT Transportation Data

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

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