

Material Safety Data Sheet

Super Seal Spray-On

Date of Preparation: 10/10/05

MSDS No. 190

Section 1 – Chemical Product and Company Identification

Product Name: QUEST SUPER SEAL SPRAY-ON

Part Number(s): 190

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 Number: 1-888-396-0422 **Emergency Phone Number:** 1-800-424-9300 (Chemtrec)

Section 2 – Composition / Information on Ingredients

<u>Ingredient Name</u>	<u>CAS Number</u>	<u>%Wt.</u>	<u>OSHA TWA</u>	<u>ACGIH TWA</u>	<u>ACGIH STEL</u>	<u>Vapor Pressure mmHg@20°C</u>
1. Ethane, 1,1,1,2-tetrafluoro-	811-97-2	40-60	NE	NE	NE	96 psia @ 25°C
2. 2-butoxyethanol	111-76-2	<5	50	20	NE	0.60
3. 2,2,4-Trimethyl-1,2-pentanediolisobutyrate	25265-77-4	<5	NE	NE	NE	1.0

NE = Not established

Section 3 – Hazards Identification

Caution: Contents under pressure. Harmful if inhaled, ingested or absorbed through the skin. Irritating to the skin, eyes and respiratory system.

Gross over exposure to ethane, 1,1,1,2-trifluoro may cause CNS depression with dizziness, incoordination, drowsiness or unconsciousness. Irregular heartbeat with a strange sensation in the chest, "heart thumping", apprehension, lightheadedness, feeling of fainting, dizziness, sometimes progressing to loss of consciousness and death. Increased susceptibility to the effects of this material may be observed in persons with pre-existing disease of the central nervous system or cardiovascular system.

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

Target Organs: Eyes, skin, respiratory system, CNS and lungs.

Effects of Overexposure: May cause irritation to the eyes, skin, nose, throat and respiratory system. Nausea, headache, weakness, restless, incoordination, drowsiness, vomiting, diarrhea and dermatitis. Harmful or fatal if swallowed.

Carcinogenicity: IARC, NTP and OSHA do not list any component of this product as a carcinogen.

Chronic Effects: May affect central nervous system and lungs. May cause blood disorders. Can cause nervous system depression.

Section 4 – First Aid Measures

Inhalation: Remove to fresh air. If not breathing, give artificial respiration and get medical attention immediately.

Eye Contact: Frostbite-like effects may occur if escaping vapors contact the eyes. Immediately flush eyes with plenty of water. If irritation persists, get medical attention.

Skin Contact: Immediate overexposure to the vapor may cause frost-bite. Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

Ingestion: GET MEDICAL ATTENTION IMMEDIATELY. Do not induce vomiting.

Section 5 – Fire Fighting Measures

Flash Point: N/A

Flash Point Method: N/A

LEL: N/A

Flammability Classification: N/A

Extinguishing Media: Carbon Dioxide, alcohol-like foam, dry chemicals, water spray.

Unusual Fire or Explosion Hazards: Closed containers may explode when heated due to pressure build up.

Special Fire-Fighting Procedures: Do not release runoff from fire control methods to sewers or waterways. Wear self-contained breathing apparatus pressure demand, MSNA/OSHA (approved or equivalent) and full protective gear. Use water spray to keep fire-exposed containers cool.

Section 6 – Accidental Release Measures

Spill/Leak Procedures: Eliminate all sources of ignition. Stop spill at source. Wear appropriate personal protective equipment (Sec. 8). Contain the spill to facilitate clean up with absorbent. Transfer to disposal containers. Do not release into sewers or waterways.

Section 7 – Handling and Storage

Handling Precautions: Avoid prolonged breathing of vapor and contact with eyes, skin and clothing. Use in well ventilated area. Wash thoroughly after handling. Avoid exposure to temperatures >120°F.

Storage Requirements: Keep away from heat, sparks and flame. Keep container closed when not in use. Store at above freezing temperatures. Keep out of the reach of children.

Section 8 – Exposure Controls/Personal Protection

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (SEC. 2). Local exhaust ventilation is preferred due to the ability of the local exhaust ventilation to prevent contaminant dispersion into the work place by exhausting the contaminant at its source.

Administrative controls: Not needed.

Respiratory Protection: Respiration not required if airborne concentrations are below OSHA PELs (Sec. 2). If necessary, follow OSHA respirator regulations (29 CFR 1910.134) and wear an MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or non-routine operations (cleaning spills or storage tanks), wear an SCBA.

Protective Clothing/Equipment: Wear chemically protective gloves and aprons to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye and face protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Safety Stations: Make emergency eye wash stations, safety/quick-drench showers and washing facilities available in work area.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before re-use. Remove this material from your shoes and clean personal protective equipment.

Comments: Never eat, drink or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet or applying cosmetics.

Section 9 – Physical and Chemical Properties

Physical State: Liquid

Appearance and Odor: Aluminum, mild.

Vapor Density (Air = 1): >1

Specific Gravity (@ 20°C): 1.03 (sealant)

Density: 8.62 lbs./gal. (sealant)

Boiling Range: 64 - 244°C (sealant)

Solubility in water: Soluble

% Volatile: 86

Evaporation Rate: Slower than ether.

VOC content: 141 g/liter (sealant)

Section 10 – Stability and Reactivity

Stability: Stable.

Polymerization: Hazardous polymerization will not occur.

Incompatibilities & Conditions to avoid: Isolate from oxidizers, heat, sparks, electric equipment and open flame.

Hazardous Decomposition Products: Carbon Monoxide, carbon dioxide, hydrofluoric acid, carbonil fluoride and various hydrocarbons.

Section 11- Toxicological Information

Eye: Not determined.

Skin: Not determined.

Ingestion: Not determined.

Inhalation: Not determined.

Carcinogenicity: IARC, NTP and OSHA do not list any component of this product as a carcinogen.

Teratology: Not determined.

Reproduction: Not determined.

Mutagenicity: Not determined.

Section 12 – Ecological Information

No data available.

Section 13 – Disposal Considerations

Disposal: Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, State and local regulations.

Section 14 - Transportation Data (49 CFR 172.101):

<u>Part Number(s):</u>	<u>Shipping Name:</u>	<u>Hazard Class:</u>	<u>ID No.:</u>	<u>Packaging Group:</u>
190	Consumer commodity	ORM-D	N/A	N/A

Section 15 – Regulatory Information

OSHA: This material is classified as hazardous under OSHA regulations.

TSCA: All components of this product are listed on the TSCA inventory.

CERCLA: Not reportable.

SARA Title III:

Section 302: None

Section 311/312: Acute & chronic health hazard. Pressure hazard.

Section 313: This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the emergency Planning & Community Right-To-Know-Act of 1986 & of 40CFR 372: 2-butoxyethanol.

California Proposition 65: This product contains the following chemicals known to the state of California to cause cancer and/or reproductive toxicity: none

Section 16 – Other Information

NFPA: Health = 1	HMIS: Health = 1
Fire = 0	Fire = 0
Reactivity = 1	Reactivity = 1
	Protective equipment = B

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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.