

**1 Section I****\*\*\* GENERAL INFORMATION \*\*\****SynQuest Laboratories, Inc.*

P.O. Box 309

Alachua, FL 32615

Phone 386/462-0788; FAX 386/462-7097

SynQuest Product # 1300-7-Z8  
 Chemical Name: Z-2-Chloro-1,1,1,4,4,4-hexafluoro-2-butene  
 Synonyms:  
 Chemical Family: Haloalkene CAS#: [3414-09-7]  
 Formula:  $\text{CF}_3\text{CH}=\text{CClCF}_3$  MW: 198.5

**2 Section II****\*\*\* HAZARDOUS INGREDIENTS/IDENTITY INFORMATION \*\*\***

HAZARDOUS COMPONENTS	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	%
Z-2-Chloro-1,1,1,4,4,4-hexafluoro-2-butene	NONE	NONE		100

**3 Section III****\*\*\* PHYSICAL & CHEMICAL CHARACTERISTICS \*\*\***

BOILING POINT: 33-34°C (as E/Z mixture) EVAPORATION RATE (Butyl acetate = 1): >1  
 VAPOR PRESSURE: 760 mmHg @ 33°C (as E/Z mixture) MELTING POINT: N/E  
 VAPOR DENSITY, (AIR=1) 6.9 (Calc.) REFRACTIVE INDEX: 1.3018 @ 17 °C (as E/Z mixture)  
 SPECIFIC GRAVITY: 1.487 @ 25°C (as E/Z mixture)  
 SOLUBILITY IN WATER Insoluble  
 APPEARANCE: Colorless liquid

**4 Section IV****\*\*\* FIRE & EXPLOSION HAZARD DATA \*\*\***

FLASH POINT: 32°F (0°C) (as E/Z mixture) METHOD USED: Lit.  
 FLAMMABLE LIMITS: LEL = N/E UEL = N/E  
 EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, Foam  
 SPECIAL FIRE FIGHTING PROCEDURES: A self-contained breathing apparatus and full protective clothing should be worn when fighting fires. Keep cylinders cool with water spray.  
 UNUSUAL FIRE & EXPLOSION HAZARDS: Toxic fumes or mists of fluoride may be produced on thermal decomposition and/or during combustion.



**7 Section VII \*\*\* PRECAUTIONS FOR SAFE HANDLING AND USE \*\*\***

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Evacuate area and allow to thoroughly ventilate before re-entry. Wear self-contained breathing apparatus when exposure possible.

WASTE DISPOSAL METHOD: Burn in approved incinerator in accordance with all Local, State, and Federal regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store cylinders in a cool, dry area out of direct sunlight. Avoid breathing vapors. Avoid skin contact.

**8 Section VIII \*\*\* CONTROL MEASURES \*\*\***

RESPIRATORY PROTECTION (SPECIFY TYPE): Self-contained breathing apparatus.

VENTILATION: LOCAL EXHAUST: Required

MECHANICAL (GENERAL): Required

SPECIAL:

OTHER: Handle in closed system when possible.

PROTECTIVE GLOVES: Neoprene rubber or Silver Shield

EYE PROTECTION: Safety glasses or chemical splash goggles

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Emergency shower and eye-wash station.

WORK/HYGENIC PRACTICES: Wash after handling.

**9 Section XI \*\*\* REGULATORY INFORMATION \*\*\***

UN# 3383-A

DOT SHIPPING NAME: Toxic by inhalation liquid, flammable, N.O.S. Inhalation hazard zone A

LISTS:

RCRA: Not listed

CERCLA: Not listed

SARA 313: Not listed

WHIMS: Health (3); Flammability (3); Reactivity (1)

TSCA: Not included on TSCA inventory, for R&D use only

EINICS:

NEW JERSEY RTK:

N/A = Not available

N/E = Not established

NA = Not applicable