Date Printed: March 13, 2007 Date Prepared: March 13, 2007 MSDS for **Bromofluoroacetonitrile**

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 #	3137-B-01
Chemical Name:	Bromofluoroacetonitrile
Chemical Family:	Alkyl nitrile
Formula:	C ₂ HBrFN

CAS#: [96449-14-8] MW: 137.94

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

HAZARDOUS COMPONENTS	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	%
Bromofluoroacetonitrile	NONE	NONE		100

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

J/E
J/E
J/E
lightly soluble
Colorless liquid

EVAPORATION RATE (BuOAc = 1): > 1 MELTING POINT: N/E

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

FLASH POINT:N/EMETHOD USED: NAFLAMMABLE LIMITS:LEL = NAUEL = NAEXTINGUISHING MEDIA:Carbon dioxide, dry chemical, FoamSPECIAL FIRE FIGHTING PROCEDURES:A self-contained breathing apparatus and full protective clothingshould be worn when fighting fires.Keep containers cool with water spray.UNUSUAL FIRE & EXPLOSION HAZARDS:Toxic fumes or mists of fluoride may be produced on thermaldecomposition and/or during combustion.Herman

5 Section V

*** REACTIVITY DATA ***

STABILITY (Choose one): () Unstable (X) Stable CONDITIONS TO AVOID: NA INCOMPATABILITY (Materials to avoid): HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO₂, HF, HBr, NO_x generated during combustion HAZARDOUS POLYMERIZATION (Choose one): () May occur (X) Will not occur

6 Section VI

*** HEALTH HAZARD DATA ***

ROUTE(S) OF ENTRY: INHALATION? <u>YES</u> SKIN? <u>NO</u> INGESTION? <u>NO</u>

HEALTH HAZARDS (Acute and chronic):

To the best of our knowledge the human toxicity of this material has not been determined. It is considered to be toxic if inhaled. Vapor may be irritating to the eyes, mucous membranes and upper respiratory tract. May cause skin irritation.

CARCINOGENICITY: NTP? NO IARC MONOGRAPHS? NO OSHA REGULATED? NO

SIGN & SYMPTOMS OF EXPOSURE: No data available. Symptoms may include weakness, headache, confusion, nausea and vomiting. Cyanosis may be present.

MEDICAL CONDITIONS GENERALLY AGRIVATED BY EXPOSURE: No data available. May interfere with iodine uptake by thyroid gland, leading to thyroid enlargement.

EMERGENCY FIRST AID PROCEDURES:

INHALATION: Remove victim to fresh air. If breathing is difficult administer oxygen. If breathing has stopped administer artificial respiration. Seek medical attention.

INGESTION: Not a normal route of entry.

EYE CONTACT: Flush with water for at least 15 minutes. Obtain medical attention.

SKIN CONTACT: Wash in warm water; seek medical attention if irritation occurs.

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.

WASTE DISPOSAL METHOD: Vent through a strong caustic solution. Dispose of solution in accordance with all Local, State, and Federal regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store containers 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 when exposure likely.

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# 2810 DOT SHIPPING NAME: Toxic liquid, organic, nos, (Bromofluoroacetonitrile) Hazard Class 6.1 / PG III

LISTS:

RCRA: Not listed CERCLA: Not listed SARA 313: Not listed WHIMS: Health (3); Flammability (2); Reactivity (0) TSCA: Not included on TSCA inventory, for R&D use only.

N/A = Not available N/E = Not established NA = Not applicable