# Date Printed: June 16, 2006 Date Prepared: June 14, 2006 MSDS for **1,2-Dibromohexafluorocyclobutane**

#### 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 #	1200-A-01	
Chemical Name:	1,2-Dibromohexafluorocyclobutane	
Chemical Family:	Alicycliperhalocarbon	CAS#: [377-40-2]
Formula:	$C_4Br_2F_6$	MW: 321.84
Formula:	$C_4Br_2F_6$	MW: 321.84

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

HAZARDOUS COMPONENTS	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	%
1,2-Dibromohexafluorocyclobutane	NONE	NONE		100

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

BOILING POINT:	96.7 °C @ 760 mmHg
VAPOR PRESSURE:	N/E
VAPOR DENSITY, (AIR=1)	11.1 (Calc.)
SPECIFIC GRAVITY:	2.1743 @ 26.5°C
SOLUBILITY IN WATER	Insoluble
APPEARANCE:	Colorless liquid

EVAPORATION RATE (BuOAc = 1): < 1 MELTING POINT: -31.2 °C

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

FLASH POINT:None (non-flammable)METHOD USED: NAFLAMMABLE LIMITS:LEL = NAUEL = NAEXTINGUISHING MEDIA: Carbon dioxide, dry chemical, FoamSPECIAL FIRE FIGHTING PROCEDURES: A self-contained breathing apparatus and full protective clothing<br/>should be worn when fighting fires.UNUSUAL FIRE & EXPLOSION HAZARDS: Toxic fumes or mists of fluoride and bromide may be produced on

thermal decomposition and/or during combustion.

# Date Printed: June 16, 2006 Date Prepared: June 14, 2006 MSDS for **1,2-Dibromohexafluorocyclobutane**

## **5** Section V

## \*\*\* REACTIVITY DATA \*\*\*

STABILITY (Choose one): ( ) Unstable (X) Stable CONDITIONS TO AVOID: NA INCOMPATABILITY (Materials to avoid): Active metals, Zinc powder HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO<sub>2</sub>, HF, HBr, NO<sub>x</sub> generated during combustion HAZARDOUS POLYMERIZATION (Choose one): ( ) May occur (X) Will not occur

#### **6** Section VI

# \*\*\* HEALTH HAZARD DATA \*\*\*

#### ROUTE(S) OF ENTRY: INHALATION? NO SKIN? YES INGESTION? YES

HEALTH HAZARDS (Acute and chronic):

To the best of our knowledge the toxicity of this material has not been determined. Not expected to be toxic. It may be harmful 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

MEDICAL CONDITIONS GENERALLY AGRIVATED BY EXPOSURE: No data available.

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: Obtain medical attention.

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

SKIN CONTACT: Remove contaminated clothing. Wipe off excess material, rinse with water, wash with soap and water and rinse for at least 15 minutes with clean water. Do not reuse clothing until it has been thoroughly decontaminated.

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

STEPS TO BE TAKEN IF MATERIAL IS RELASED OR SPILLED: Evacuate area and wearing protective clothing soak up spill with absorbent solid. Place recovered material in appropriate contained for disposal.

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 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): OSHA approved organic vapor respirator.

VENTILATION: LOCAL EXHAUST: Recommended 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: As required by your company. WORK/HYGENIC PRACTICES: Wash after handling.

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

UN# Unrestricted DOT SHIPPING NAME: LISTS: RCRA: Not listed CERCLA: Not listed SARA 312 HAZARD CLASS: Not listed SARA 313: Not listed WHIMS: Health (0); Flammability (0); Reactivity (0) TSCA: Not on TSCA inventory, for R&D use only.

N/A = Not availableN/E = Not establishedNA = Not applicable