



## SynQuest Laboratories, Inc.

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# Material Safety Data Sheet

Transportation Emergency: 1-800-451-8346

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### SECTION 1. ----- CHEMICAL IDENTIFICATION -----

CATALOG #: 2107-5-01

NAME: CHLOROMETHYL ETHYL ETHER

### SECTION 2. ----- COMPOSITION/INFORMATION ON INGREDIENTS -----

CAS NUMBER: 3188-13-4

MOLECULAR FORMULA:  $C_3H_7ClO$

MOLECULAR WEIGHT: 94.54

### SECTION 3. ----- HAZARDS IDENTIFICATION -----

#### LABEL PRECAUTIONARY STATEMENTS

HIGHLY FLAMMABLE.

HARMFUL.

HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.

IRRITANT.

IRRITATING TO THE EYES, RESPIRATORY SYSTEM AND SKIN.

TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

DO NOT BREATHE GAS, FUMES, AND/OR VAPORS.

SEE SECTION 11 FOR MORE INFORMATION.

### SECTION 4. ----- FIRST-AID MEASURES -----

#### IF INHALED

IF BREATHED IN, MOVE PERSON INTO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION. CONSULT A PHYSICIAN.

#### IN CASE OF SKIN CONTACT

WASH OFF WITH SOAP AND PLENTY OF WATER. CONSULT A PHYSICIAN.

#### IN CASE OF EYE CONTACT

RINSE THOROUGHLY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND CONSULT A PHYSICIAN.

#### IF SWALLOWED

NOT A LIKELY ROUTE OF EXPOSURE AS BOILING POINT OF THIS MATERIAL IS LESS THAN BODY TEMPERATURE. CONSULT A PHYSICIAN.

## **SECTION 5. ----- FIRE FIGHTING MEASURES -----**

### **FLASH POINT**

19 °C

### **EXTINGUISHING MEDIA**

SUITABLE: FOR SMALL (INCIPIENT) FIRES, USE MEDIA SUCH AS "ALCOHOL" FOAM, DRY CHEMICAL, OR CARBON DIOXIDE.

### **FIREFIGHTING**

PROTECTIVE EQUIPMENT: WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.

SPECIFIC HAZARD(S): EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

## **SECTION 6. ----- ACCIDENTAL RELEASE MEASURES-----**

### **PERSONAL PRECAUTIONS**

USE PERSONAL PROTECTIVE EQUIPMENT. AVOID BREATHING VAPORS OR MIST. ENSURE ADEQUATE VENTILATION.

### **ENVIRONMENTAL PRECAUTIONS**

DO NOT LET PRODUCT ENTER DRAINS.

### **METHODS FOR CLEANING UP**

SOAK UP WITH INERT ABSORBENT MATERIAL AND DISPOSE OF AS HAZARDOUS WASTE. KEEP IN SUITABLE, CLOSED CONTAINERS FOR DISPOSAL.

## **SECTION 7. ----- HANDLING AND STORAGE-----**

### **HANDLING**

AVOID CONTACT WITH SKIN AND EYES. AVOID INHALATION OF VAPOR OR MIST. NORMAL MEASURES FOR PREVENTIVE FIRE PROTECTION.

### **STORAGE**

KEEP CONTAINER TIGHTLY CLOSED AND CAPPED.

## **SECTION 8. ----- EXPOSURE CONTROLS/PERSONAL PROTECTION-----**

### **RESPIRATORY PROTECTION**

WHERE RISK ASSESSMENT SHOWS AIR-PURIFYING RESPIRATORS ARE APPROPRIATE USE A FULL-FACE RESPIRATOR WITH MULTIPURPOSE COMBINATION (US) OR TYPE ABEK (EN 14387) RESPIRATOR CARTRIDGES AS A BACKUP TO ENGINEERING CONTROLS. IF THE RESPIRATOR IS THE SOLE MEANS OF PROTECTION, USE A FULL-FACE SUPPLIED AIR RESPIRATOR. USE RESPIRATORS AND COMPONENTS TESTED AND APPROVED UNDER APPROPRIATE GOVERNMENT STANDARDS SUCH AS NIOSH (US) OR CEN (EU).

### **HAND PROTECTION**

HANDLE WITH GLOVES.

### **EYE PROTECTION**

SAFETY GLASSES

### **SKIN AND BODY PROTECTION**

CHOOSE BODY PROTECTION ACCORDING TO THE AMOUNT AND CONCENTRATION OF THE DANGEROUS SUBSTANCE AT THE WORK PLACE.

### **HYGIENE MEASURES**

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE. WASH HANDS BEFORE BREAKS AND AT THE END OF WORKDAY.

## **SECTION 9. ----- PHYSICAL AND CHEMICAL PROPERTIES -----**

### **APPEARANCE**

LIQUID

### **PHYSICAL PROPERTIES**

BOILING POINT: 82°C  
DENSITY: 1.019 g/mL @ 25 °C  
REFRACTIVE INDEX: 1.404 @ 20 °C

## **SECTION 10. -----STABILITY AND REACTIVITY -----**

### **STORAGE STABILITY**

STABLE UNDER RECOMMENDED STORAGE CONDITIONS.

### **MATERIALS TO AVOID**

STRONG OXIDIZERS, ACTIVE POWDERED METALS, LEWIS ACIDS.

### **HAZARDOUS DECOMPOSITION PRODUCTS**

HAZARDOUS DECOMPOSITION PRODUCTS FORMED UNDER FIRE CONDITIONS.  
CARBON OXIDES, HYDROGEN CHLORIDE.

## **SECTION 11. ----- TOXICOLOGICAL INFORMATION -----**

### **SIGNS AND SYMPTOMS OF EXPOSURE**

TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED. SYMPTOMS MAY INCLUDE HEADACHES, NAUSEA AND VOMITING, DIZZINESS, DIFFICULTY BREATHING, UNSTEADY GAIT, AND UNCONSCIOUSNESS. MAY BE NARCOTIC AT HIGH CONCENTRATIONS.

### **MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE**

MAY AGGRAVATE EXISTING HEART AND LUNG CONDITIONS.

### **POTENTIAL HEALTH EFFECTS**

#### **INHALATION**

HARMFUL IF INHALED AND CAUSES RESPIRATORY TRACT IRRITATION.

#### **SKIN**

HARMFUL IF ABSORBED THROUGH SKIN AND CAUSES SKIN IRRITATION.

#### **EYES**

CAUSES EYE IRRITATION.

#### **INGESTION**

HARMFUL IF SWALLOWED.

## **SECTION 12. ----- ECOLOGICAL INFORMATION -----**

DATA NOT YET AVAILABLE.

## **SECTION 13. ----- DISPOSAL CONSIDERATIONS -----**

### **APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION**

DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER. OBSERVE ALL FEDERAL, STATE, AND LOCAL ENVIRONMENTAL REGULATIONS.

**SECTION 14. ----- TRANSPORT INFORMATION -----**

DOT

UN2354 - HC 3 - PG II

**SECTION 15. ----- REGULATORY INFORMATION -----**

EU ADDITIONAL CLASSIFICATION

SYMBOL OF DANGER: F+, Xn

INDICATION OF DANGER: HIGHLY FLAMMABLE, HARMFUL.

R: 11-20/21/22-36/37/38

S: 16-23-24/25-26-36/37/39-45

UNITED STATES REGULATORY INFORMATION

TSCA: NOT LISTED ON TSCA INVENTORY; FOR R&D USE ONLY

**SECTION 16. ----- OTHER INFORMATION -----**

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. SYNQUEST LABS, INC. SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT.