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## **Material Safety Data Sheet**

Transportation Emergency: 1-800-451-8346

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

CATALOG #: M008-3-X0  
NAME: TRIETHYLOXONIUM TETRAFLUOROBORATE

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

CAS NUMBER: 368-39-8  
MDL NUMBER: MFCD00044423  
MOLECULAR FORMULA: C<sub>6</sub>H<sub>15</sub>BF<sub>4</sub>O  
MOLECULAR WEIGHT: 189.99

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

#### **LABEL PRECAUTIONARY STATEMENTS**

CORROSIVE.  
CAUSES BURNS.  
HARMFUL.  
HARMFUL IF SWALLOWED.  
TARGET ORGANS  
CENTRAL NERVOUS SYSTEM, KIDNEY, LIVER, GASTROINTESTINAL TRACT,  
SKELETAL MUSCLE.  
REACTS WITH WATER.

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

#### **IF INHALED**

IF BREATHED IN MOVE PERSON INTO FRESH AIR. IF NOT BREATHING GIVE  
ARTIFICIAL RESPIRATION.

#### **IN CASE OF SKIN CONTACT**

TAKE OFF CONTAMINATED CLOTHING AND SHOES IMMEDIATELY. WASH OFF  
WITH SOAP AND PLENTY OF WATER.

#### **IN CASE OF EYE CONTACT**

RINSE THOROUGHLY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND  
CONTINUE RINSING EYES DURING TRANSPORT TO HOSPITAL.

#### **IF SWALLOWED**

DO NOT INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS  
PERSON. RINSE MOUTH WITH WATER.

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

CONDITIONS OF FLAMMABILITY

NOT FLAMMABLE OR COMBUSTIBLE.

EXTINGUISHING MEDIA

DRY POWDER

SPECIAL FIREFIGHTING PROCEDURES

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

UNUSUAL FIRE AND EXPLOSIONS HAZARDS

EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

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

PERSONAL PRECAUTIONS

USE PERSONAL PROTECTIVE EQUIPMENT. AVOID DUST FORMATION. AVOID BREATHING VAPORS, MIST OR GAS. ENSURE ADEQUATE VENTILATION. EVACUATE PERSONNEL TO SAFE AREAS. AVOID BREATHING DUST.

ENVIRONMENTAL PRECAUTIONS

DO NOT LET PRODUCT ENTER DRAINS.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

PICK UP AND ARRANGE DISPOSAL WITHOUT CREATING DUST. SWEEP UP AND SHOVEL. DO NOT FLUSH WITH WATER. KEEP IN SUITABLE, CLOSED CONTAINERS FOR DISPOSAL.

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

PRECAUTIONS FOR SAFE HANDLING

AVOID FORMATION OF DUST AND AEROSOLS.

PROVIDE APPROPRIATE EXHAUST VENTILATION AT PLACES WHERE DUST IS FORMED.

CONDITIONS FOR SAFE STORAGE

KEEP CONTAINER TIGHTLY CLOSED IN A DRY AND WELL-VENTILATED PLACE.

NEVER ALLOW PRODUCT TO GET IN CONTACT WITH WATER DURING STORAGE.

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

DIETHYL ETHER 60-29-7

TWA 400 PPM USA. ACGIH THRESHOLD LIMIT VALUES (TLV)

REMARKS CENTRAL NERVOUS SYSTEM IMPAIRMENT UPPER RESPIRATORY TRACT IRRITATION

STEL 500 PPM USA. ACGIH THRESHOLD LIMIT VALUES (TLV)

CENTRAL NERVOUS SYSTEM IMPAIRMENT UPPER RESPIRATORY TRACT IRRITATION

TWA 400 PPM

1,200 MG/M3

USA. OSHA - TABLE Z-1 LIMITS FOR AIR CONTAMINANTS - 1910.1000

STEL 500 PPM

1,500 MG/M3

USA. OSHA - TABLE Z-1 LIMITS FOR AIR CONTAMINANTS - 1910.1000

TWA

400 PPM

1,200 MG/M3

USA. OCCUPATIONAL EXPOSURE LIMITS (OSHA) - TABLE Z-1

## PERSONAL PROTECTIVE EQUIPMENT

### RESPIRATORY PROTECTION

WHERE RISK ASSESSMENT SHOWS AIR-PURIFYING RESPIRATORS ARE APPROPRIATE USE A FULL-FACE RESPIRATOR WITH MULTI-PURPOSE 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. GLOVES MUST BE INSPECTED PRIOR TO USE. USE PROPER GLOVE REMOVAL TECHNIQUE (WITHOUT TOUCHING GLOVE'S OUTER SURFACE) TO AVOID SKIN CONTACT WITH THIS PRODUCT. DISPOSE OF CONTAMINATED GLOVES AFTER USE IN ACCORDANCE WITH APPLICABLE LAWS AND GOOD LABORATORY PRACTICES.

WASH AND DRY HANDS.

### EYE PROTECTION

TIGHTLY FITTING SAFETY GOGGLES. FACESHIELD (8-INCH MINIMUM). USE EQUIPMENT FOR EYE PROTECTION TESTED AND APPROVED UNDER APPROPRIATE GOVERNMENT STANDARDS SUCH AS NIOSH (US) OR EN 166(EU).

### SKIN AND BODY PROTECTION

COMPLETE SUIT PROTECTING AGAINST CHEMICALS, THE TYPE OF PROTECTIVE EQUIPMENT MUST BE SELECTED ACCORDING TO THE CONCENTRATION AND AMOUNT OF THE DANGEROUS SUBSTANCE AT THE SPECIFIC WORKPLACE.

### 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

SOLID

### PHYSICAL PROPERTIES

MELTING POINT: 84-89°C

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

### CHEMICAL STABILITY

STABLE UNDER RECOMMENDED STORAGE CONDITIONS.

### POSSIBILITY OF HAZARDOUS REACTIONS

REACTS VIOLENTLY WITH WATER.

### CONDITIONS TO AVOID

EXPOSURE TO MOISTURE.

### MATERIALS TO AVOID

STRONG OXIDIZING AGENTS

### HAZARDOUS DECOMPOSITION PRODUCTS

CARBON OXIDES, HYDROGEN FLUORIDE, BORANE/BORON OXIDES

### CONTAINS THE FOLLOWING STABILISER(S):

DIETHYL ETHER (>1 - <3 %)

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

**POTENTIAL HEALTH EFFECTS**

INHALATION MAY BE HARMFUL IF INHALED. MATERIAL IS EXTREMELY DESTRUCTIVE TO THE TISSUE OF THE MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT.

INGESTION HARMFUL IF SWALLOWED.

SKIN HARMFUL IF ABSORBED THROUGH SKIN. CAUSES SKIN BURNS.

EYES CAUSES EYE BURNS.

**SIGNS AND SYMPTOMS OF EXPOSURE**

SPASM, INFLAMMATION AND EDEMA OF THE LARYNX, SPASM, INFLAMMATION AND EDEMA OF THE BRONCHI, PNEUMONITIS, PULMONARY EDEMA, BURNING SENSATION, COUGH, WHEEZING, LARYNGITIS, SHORTNESS OF BREATH, HEADACHE, NAUSEA, VOMITING

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

DATA NOT YET AVAILABLE.

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

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 -----**

UN3261 - HC 8 - PG II

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

**EUROPEAN INFORMATION**

HAZARD SYMBOL: C, Xn

INDICATION OF HAZARD: CORROSIVE. HARMFUL.

RISK STATEMENTS: R14,R22,R34

SAFETY STATEMENTS: S26,S36/37/39,S45

**US INFORMATION**

TSCA: 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.