

**SAFETY DATA SHEET**

Revision Date : 04/01/2016

**SECTION 1. CHEMICAL IDENTIFICATION**

Product Name : Trifluoromethanesulfonic anhydride  
Synonyms :  
Product Number : 188766

COMPANY : AFG Bioscience LLC  
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**SECTION 2. HAZARDS IDENTIFICATION**

Pictograms :



Single word : Danger  
H302 : Harmful if swallowed  
H314 : Causes severe skin burns and eye damage  
P280 : Wear protective gloves/protective clothing/eye protection/face protection  
P305+P351+P338 : IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing  
P310 : Immediately call a POISON CENTER or doctor/physician

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredient name : Trifluoromethanesulfonic anhydride  
CAS number : 358-23-6

**SECTION 4. FIRST-AID MEASURES**

Skin contact : Immediately wash skin with copious amounts of water for at least 15 minutes while removing contaminated clothing and shoes. If irritation persists, seek medical attention.  
Eye contact : Immediately wash skin with copious amounts of water for at least 15 minutes. Assure adequate flushing of the eyes by separating the eyelids with fingers. If irritation persists, seek medical attention.  
Inhalation : Remove to fresh air. In severe cases or if symptoms persist, seek medical attention.  
Ingestion : Wash out mouth with copious amounts of water for at least 15 minutes. Seek medical attention.

**SECTION 5. FIRE AND EXPLOSION DATA**

In the event of a fire involving this material, alone or in combination with other materials, use dry powder or carbon dioxide extinguishers. Protective clothing and self-contained breathing apparatus should be worn.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions : Wear suitable personal protective equipment which performs satisfactorily and meets local/state/national standards.

Respiratory precaution	: Wear approved mask/respirator
Hand precaution	: Wear suitable gloves/gauntlets
Skin protection	: Wear suitable protective clothing
Eye protection	: Wear suitable eye protection
Methods for cleaning up	: Mix with sand or similar inert absorbent material, sweep up and keep in a tightly closed container for disposal. See section 12.
Environmental precautions	: Do not allow material to enter drains or water courses.

## SECTION 7. HANDLING AND STORAGE

Handling	: This product should be handled only by, or under the close supervision of, those properly qualified in the handling and use of potentially hazardous chemicals, who should take into account the fire, health and chemical hazard data given on this sheet.
Storage	: Store in closed vessels.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls	: Use only in a chemical fume hood.
Personal protective equipment	: Wear laboratory clothing, chemical-resistant gloves and safety goggles.
General hygiene measures	: Wash thoroughly after handling. Wash contaminated clothing before reuse.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Not specified
Boiling point	: No data
Melting point	: No data
Flash point	: No data
Density	: No data
Molecular formula	: C <sub>2</sub> F <sub>6</sub> O <sub>5</sub> S <sub>2</sub>
Molecular weight	: 282.1

## SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid	: Heat, flames and sparks.
Materials to avoid	: Oxidizing agents.
Possible hazardous combustion products	: Carbon monoxide, hydrogen fluoride, sulfur oxides.

## SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity	: Harmful if swallowed.
Skin irritation/corrosion	: Causes severe skin burns and eye damage.
Eye damage/irritation	: Causes severe skin burns and eye damage.
Respiratory or skin sensitization	: No data available.
Germ cell mutagenicity	: No data available.
Carcinogenicity	: No classification data on carcinogenic properties of this material is available from EPA, IARC, NTP, OSHA or ACGIH.
Reproductive toxicity	: No effects known.
Specific target organ system toxicity - repeated exposure	: No effects known.
Specific target organ system toxicity - single exposure	: No data available.
Aspiration hazard	: No data available.

Additional information : To the best of our knowledge, the chemical, physical and toxicological properties of this substance have not been thoroughly investigated.

## SECTION 12. ECOLOGICAL INFORMATION

Toxicity : No data available.  
Persistence and degradability : No data available.  
Bioaccumulative potential : No data available.  
Mobility in soil : No data available.  
Result of PBT and vPvB assessment : PBT: Not applicable. vPvB: Not applicable.  
Other adverse effects : No further relevant information available.

## SECTION 13. DISPOSAL CONSIDERATION

Arrange disposal as special waste, by licensed disposal company, in consultation with local waste disposal authority, in accordance with national and regional regulations.

## SECTION 14. TRANSPORT INFORMATION

UN Number Proper shipping name : UN3265 Class: 8 Packing group: II CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Trifluoromethanesulfonic anhydride)

## SECTION 15. REGULATORY INFORMATION

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302, or have known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

## SECTION 16. OTHER INFORMATION

This MSDS is correct to the best of our knowledge at the date of publication but does not purport to be all inclusive and shall be used only as a guide. AFG Bioscience shall not be held liable for any injury or damage resulting from handling or from contact with the above product.