

**SIGMA-ALDRICH**

**Material Safety Data Sheet**

Version 3.2  
Revision Date 02/21/2007  
Print Date 04/28/2008

**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : **BSTFA + TMCS, 99:1 (SYLON BFT)**  
Product Number : 33149-U  
Brand : Supelco  
Company : Sigma-Aldrich  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA  
Telephone : +1 800-325-5832  
Fax : +1 800-325-5052  
Emergency Phone # : (314) 776-6555

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

CAS-No.	EC-No.	Index-No.	Concentration [%]
<b>Trimethylsilyl 2,2,2-trifluoro-n-(trimethylsilyl)acetimidate</b>			
25561-30-2	247-103-9	-	99
<b>Chlorotrimethylsilane</b>			
75-77-4	200-900-5	-	1

**3. HAZARDS IDENTIFICATION**

**Emergency Overview**  
**OSHA Hazards**  
Flammable Liquid  
Corrosive  
**Target Organs**  
Lungs, Nerves.

**HMIS Classification**  
Health Hazard: 3  
Chronic Health Hazard: \*  
Flammability: 3  
Physical hazards: 1

**NFPA Rating**  
Health Hazard: 3  
Fire: 3  
Reactivity Hazard: 1

**Potential Health Effects**

**Inhalation** Material is extremely destructive to tissue of the mucous membranes and upper

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**Skin**  
**Eyes**  
**Ingestion**

respiratory tract, eyes, and skin. May cause respiratory tract irritation.  
Causes skin burns.  
Causes eye burns.  
May be harmful if swallowed.

**4. FIRST AID MEASURES**

**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled**

If inhaled, remove to fresh air. If breathing becomes difficult, call a physician. If not breathing give artificial respiration. Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Take off contaminated clothing and shoes immediately. Consult a physician.

**In case of eye contact**

Continue rinsing eyes during transport to hospital. Consult a physician.

**If swallowed**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**5. FIRE-FIGHTING MEASURES**

**Flammable properties**

Flash point 24 °C (75 °F) - closed cup  
Ignition temperature no data available

**Suitable extinguishing media**

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

**Special protective equipment for fire-fighters**

In the event of fire, wear self-contained breathing apparatus.

**Further information**

Use water spray to cool unopened containers.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions**

Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

**Environmental precautions**

Do not flush into surface water or sanitary sewer system.

**Methods for cleaning up**

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal. Soak up with inert absorbent material and dispose of as hazardous waste.

**7. HANDLING AND STORAGE**

**Handling**

Avoid formation of aerosol. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

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**Storage**

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Handle and store under inert gas. Hydrolyses readily.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Contains no substances with occupational exposure limit values.

**Personal protective equipment****Respiratory protection**

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). 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.

**Hand protection**

Handle with gloves.

**Eye protection**

Safety glasses

**Skin and body protection**

Impervious clothing, 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.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance**

Form	liquid
Colour	no data available

**Safety data**

pH	no data available
Melting point	no data available
Boiling point	45 - 50 °C (113 - 122 °F) at 18.7 hPa (14.0 mmHg) - Decomposes on heating.
Flash point	24 °C (75 °F) - closed cup
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Density	0.974 g/cm <sup>3</sup>
Water solubility	Decomposes in contact with water.

**10. STABILITY AND REACTIVITY****Storage stability**

Stable under recommended storage conditions.

**Conditions to avoid**

Water hydrolyzes material liberating acidic gas which in contact with metal surfaces can generate flammable and/or explosive hydrogen gas.

Heat, flames and sparks.

**Materials to avoid**

Strong acids and strong bases, Strong oxidizing agents

**Hazardous decomposition products**

**Hazardous decomposition products formed under fire conditions.**  
Carbon oxides, silicon oxides, nitrogen oxides (NO<sub>x</sub>), Hydrogen fluoride

**Hazardous reactions**

Vapours may form explosive mixture with air.

**11. TOXICOLOGICAL INFORMATION****Acute toxicity**

no data available

**Irritation and corrosion**

no data available

**Sensitization**

no data available

**Chronic exposure**

no data available

**Signs and Symptoms of Exposure**

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., pulmonary edema, spasm, inflammation and edema of the bronchi, spasm, inflammation and edema of the larynx, burning sensation, laryngitis, wheezing

**Further information**

Solvents may degrease the skin.

**12. ECOLOGICAL INFORMATION****Ecotoxicity effects****Further information on ecology**

no data available

**13. DISPOSAL CONSIDERATIONS****Product**

Contact a licensed professional waste disposal service to dispose of this material. This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations. Do not dispose of waste into sewer.

**Contaminated packaging**

Do not re-use empty containers.

**14. TRANSPORT INFORMATION****DOT (US)**

UN-No.: 2924 Class: 3 (8) Packing group: III  
Proper shipping name: Flammable liquids, corrosive, n.o.s. (Trimethylsilyl 2,2,2-trifluoro-n-(trimethylsilyl)acetimidate)

**IMDG**

UN-No.: 2924 Class: 3 (8) Packing group: III EMS-No: F-E, S-C

Proper shipping name: FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Trimethylsilyl 2,2,2-trifluoro-n-(trimethylsilyl)acetimidate)  
Marine pollutant: No

**IATA**  
UN-No.: 2924      Class: 3 (8)      Packing group: III  
Proper shipping name: Flammable liquid, corrosive, n.o.s. (Trimethylsilyl 2,2,2-trifluoro-n-(trimethylsilyl)acetimidate)

#### 15. REGULATORY INFORMATION

**OSHA Hazards**  
Flammable Liquid, Corrosive

**TSCA Status**  
Not On TSCA Inventory

Trimethylsilyl 2,2,2-trifluoro-n-(trimethylsilyl)acetimidate	CAS-No. 25561-30-2
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**DSL Status**  
This product contains the following components that are not on the Canadian DSL nor NDSL lists.

Trimethylsilyl 2,2,2-trifluoro-n-(trimethylsilyl)acetimidate	CAS-No. 25561-30-2
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**SARA 302 Components**

Chlorotrimethylsilane	CAS-No. 75-77-4	Revision Date 1989-12-01
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**SARA 311/312 Hazards**  
Fire Hazard, Acute Health Hazard

**Massachusetts Right To Know Components**  
No Components Listed

**Pennsylvania Right To Know Components**

Trimethylsilyl 2,2,2-trifluoro-n-(trimethylsilyl)acetimidate	CAS-No. 25561-30-2	Revision Date
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**New Jersey Right To Know Components**

Trimethylsilyl 2,2,2-trifluoro-n-(trimethylsilyl)acetimidate	CAS-No. 25561-30-2	Revision Date
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**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

#### 16. OTHER INFORMATION

**Further information**

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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