

# Chemical Safety Data Sheet MSDS / SDS

## ETHYL TRIMETHYLSILYLDIFLUOROACETATE

Revision Date:2026-05-31 Revision Number:1

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### Product identifier

Product name : ETHYL TRIMETHYLSILYLDIFLUOROACETATE  
CBnumber : CB2391212  
CAS : 205865-67-4  
Synonyms : ethyl 2,2-difluoro-2-(trimethylsilyl)acetate,ETHYL TRIMETHYLSILYLDIFLUOROACETATE

#### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses : For R&D use only. Not for medicinal, household or other use.  
Uses advised against : none

#### Company Identification

Company : Chemicalbook  
Address : Building 1, Huihuang International, Shangdi 10th Street, Haidian District, Beijing  
Telephone : 010-86108875

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### SECTION 2: Hazards identification

#### GHS Label elements, including precautionary statements

Symbol(GHS)



Signal word

Warning

#### Precautionary statements

P403+P235 Store in a well-ventilated place. Keep cool.  
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.  
P370+P378 In case of fire: Use ... for extinction.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P242 Use only non-sparking tools.  
P241 Use explosion-proof electrical/ventilating/lighting/.../equipment.  
P243 Take precautionary measures against static discharge.  
P233 Keep container tightly closed.  
P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.  
P240 Ground/bond container and receiving equipment.  
P501 Dispose of contents/container to.....

## Hazard statements

H226 Flammable liquid and vapour

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## SECTION 3: Composition/information on ingredients

### Substance

Product name	: ETHYL TRIMETHYLSILYLDIFLUOROACETATE
Synonyms	: ethyl 2,2-difluoro-2-(trimethylsilyl)acetate,ETHYL TRIMETHYLSILYLDIFLUOROACETATE
CAS	: 205865-67-4
MF	: C7H14F2O2Si
MW	: 196.27

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## SECTION 4: First aid measures

### If inhaled

Remove person to fresh air and keep comfortable for breathing. Get medical advice/ attention if you feel unwell.

### In case of skin contact

Take off all contaminated clothing immediately. If on skin, rinse well with water. If skin irritation or rash occurs: Get medical advice/ attention.

### In case of eye contact

Rinse with plenty of water. If easy to do, remove contact lens, if worn. If eye irritation persists: Get medical advice/ attention.

### If swallowed

Get medical advice/ attention. Rinse mouth.

### Most important symptoms and effects, both acute and delayed

None known.

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## SECTION 5: Firefighting measures

### Suitable extinguishing media

Dry powder, Foam, Water spray, Carbon dioxide (CO2)

### Specific hazards during fire fighting

No information available.

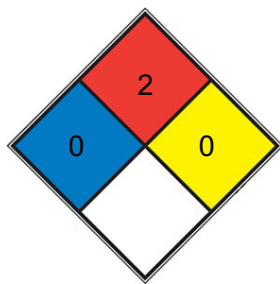
### Specific extinguishing methods

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Immediately evacuate personnel to safe areas. Remove undamaged containers from fire area if it is safe to do so.

### Special protective equipment for fire-fighters

Use personal protective equipment.

## NFPA 704



<input type="checkbox"/> HEALTH 0	Poses no health hazard, no precautions necessary and would offer no hazard beyond that of ordinary combustible materials
<input type="checkbox"/> FIRE 2	Must be moderately heated or exposed to relatively high ambient temperature before ignition can occur and multiple finely divided suspended solids that do not require heating before ignition can occur. Flash point between 37.8 and 93.3 °C (100 and 200 °F). (e.g. diesel fuel, <a href="#">sulfur</a> )
<input type="checkbox"/> REACT 0	Normally stable, even under fire exposure conditions, and is not reactive with water (e.g. helium, <a href="#">N<sub>2</sub></a> )
<input type="checkbox"/> SPEC.	
<input type="checkbox"/> HAZ.	

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## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Wear suitable protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

### Environmental precautions

Prevent product from entering drains.

### Methods and materials for containment and cleaning up

Collect as much of the spill as possible with a suitable absorbent material.

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## SECTION 7: Handling and storage

### Handling

#### Technical measures

Prevent generation of vapor or mist. Take precautionary measures against static discharge. Use explosion-proof equipment.

#### Local/Total ventilation

Ensure adequate ventilation. Use a local exhaust ventilation.

#### Advice on safe handling

Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not subject to grinding, shock or friction. Wash hands and face thoroughly after handling.

**Avoidance of contact**

Oxidizing agents

**Storage****Conditions for safe storage**

Keep container tightly closed. Store in a cool and shaded area. Keep in a well-ventilated place. Use explosion-proof equipment. Protect from moisture. Keep under inert gas.

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## SECTION 8: Exposure controls/personal protection

**Ingredients with workplace control parameters**

Contains no substances with occupational exposure limit values.

**Engineering measures**

Install a closed system or local exhaust.

Also install safety shower and eye bath.

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

Gas mask

**Eye/face protection**

Safety glasses

Face-shield

**Skin and body protection**

Protective suit

**Hand protection**

Protective gloves \*Use personal protective equipment(PPE) approved under appropriate government standards and follow local and national regulations.

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## SECTION 9: Physical and chemical properties

**Information on basic physicochemical properties**

liquid

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**Color**

colorless - yellow

**Odor**

No data available

**Odor Threshold**

No data available

**pH**

No data available

**Melting point/freezing point**

No data available

**Boiling point/boiling range**

55 °C (27 hPa)

**Flash point**

46 °C (Calculated value)

**Evaporation rate**

No data available

**Flammability**

No data available

**Upper explosion limit / Upper flammability limit**

No data available

**Lower explosion limit / Lower flammability limit**

No data available

**Vapor pressure**

No data available

**Relative density**

1.03

**Solubility(ies)****Water solubility**

No data available

**Solubility in other solvents**

No data available

**Partition coefficient: n-octanol/water**

No data available

**Autoignition temperature**

No data available

**Decomposition temperature**

No data available

## Viscosity

### Viscosity, dynamic

No data available

### Viscosity, kinematic

No data available

### Molecular weight

196.27 g/mol

### Physical state

clear liquid to cloudy liquid

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## SECTION 10: Stability and reactivity

### Reactivity

No data available

### Chemical stability

Stable under normal conditions.

### Possibility of hazardous reactions

None under normal processing.

### Conditions to avoid

Electrical spark Open flame Electrostatic discharge Exposure to moisture.

### Incompatible materials

Oxidizing agents

### Hazardous decomposition products

Carbon monoxide, Carbon dioxide (CO<sub>2</sub>), Silicon oxides, Hydrogen fluoride

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## SECTION 11: Toxicological information

### Acute toxicity

Classified based on available data. For more details, see section 2.

### Skin corrosion/irritation

Classified based on available data. For more details, see section 2.

### Serious eye damage/eye irritation

Classified based on available data. For more details, see section 2.

### **Respiratory or skin sensitization**

Classified based on available data. For more details, see section 2.

### **Germ cell mutagenicity**

Classified based on available data. For more details, see section 2.

### **Carcinogenicity**

Classified based on available data. For more details, see section 2.

### **Reproductive toxicity**

Classified based on available data. For more details, see section 2.

### **STOT-single exposure**

Classified based on available data. For more details, see section 2.

### **STOT-repeated exposure**

Classified based on available data. For more details, see section 2.

### **Repeated dose toxicity**

Classified based on available data. For more details, see section 2.

### **Aspiration toxicity**

Classified based on available data. For more details, see section 2.

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## SECTION 12: Ecological information

### **Ecotoxicity**

No data available

### **Persistence and degradability**

No data available

### **Bioaccumulative potential**

No data available

### **Mobility in soil**

No data available

### **Other adverse effects**

No data available

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## SECTION 13: Disposal considerations

## Disposal methods

### Waste from residues

Disposal in accordance with local and national regulations. Take precautions against ignition or explode. Entrust disposal to a licensed waste disposal company.

### Contaminated packaging

Disposal in accordance with local and national regulations. Before disposal of used container, remove contents completely.

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## SECTION 14: Transport information

### International Regulations

#### IATA-DGR

##### UN/ID No.

UN 3272

##### Proper shipping name

Esters, n.o.s.

##### Class

3

##### Packing group

III

#### IMDG-Code

##### UN number

UN 3272

##### Proper shipping name

ESTERS, N.O.S.

##### Class

3

##### Packing group

III

##### EmS Code

F-E, S-D

### Domestic regulation

#### GB 6944/12268

##### UN number

UN 3272

##### Proper shipping name

ESTERS, N.O. S.

##### Class

3

##### Packing group

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## SECTION 15: Regulatory information

### Measures on the Environmental Administration of New Chemical Substances Registration

#### Registration/Notification number

B1A232216038

Downstream users need to comply with the conditions of safe use of the chemical, understand the environmental and health hazard and risk management measures identified on the SDS as well as the local/national regulations concerning the chemical.

### The ingredients of this product are reported in the following inventories

#### CH BAGREG

Not in compliance with the inventory

#### TSCA

Substance(s) not listed on TSCA inventory

#### AICS

Not in compliance with the inventory

#### DSL

This product contains the following components that are not on the Canadian DSL nor NDSL.

Ethyl 2,2-Difluoro-2-(trimethylsilyl)acetate

#### ENCS

Not in compliance with the inventory

#### ISHL

Not in compliance with the inventory

#### KECI

Not in compliance with the inventory

#### PICCS

Not in compliance with the inventory

#### IECSC

Not in compliance with the inventory

#### NZIoC

Not in compliance with the inventory

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## SECTION 16: Other information

### Abbreviations and acronyms

CAS: Chemical Abstracts Service

TWA: Time-Weighted Average

STEL: Short-Term Exposure Limit

LD50: Lethal Dose 50%

LC50: Lethal Concentration 50%

EC50: Effective Concentration 50%

PEL: Permissible Exposure Limit

TLV: Threshold Limit Value

IMDG: International Maritime Dangerous Goods Code

IATA: International Air Transport Association

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

DOT: US Department of Transportation

NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety and Health Administration

**Disclaimer:**

The information in this MSDS is only applicable to the specified product, unless otherwise specified, it is not applicable to the mixture of this product and other substances. This MSDS only provides information on the safety of the product for those who have received the appropriate professional training for the user of the product. Users of this MSDS must make independent judgments on the applicability of this SDS. The authors of this MSDS will not be held responsible for any harm caused by the use of this MSDS.