



## MATERIAL SAFETY DATA SHEET

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Allyl trifluoroacetate

### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**MSDS Name:** Allyl trifluoroacetate

**Catalog Numbers:**

37

**Synonyms:**

Trifluoroacetic acid allyl ester

**Company Identification**

LEONID CHEMICALS

62/A-2 2nd Stage, Industrial Suburb

Yeshwanthpur, Bangalore -22, INDIA

Ph- +91-80-23378354

### SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS# : 383-67-5  
Chemical Name : Allyl trifluoroacetate  
% :  
EINECS# : 206-853-7  
Haz Symbols : F C  
Risk Phrases : 11 34

### SECTION 3 - HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

Highly flammable. Causes burns.

#### Potential Health Effects

Eye:

Causes eye burns. Lachrymator (substance which increases the flow of tears).

Skin:

Causes skin burns.

Ingestion:

Causes gastrointestinal tract burns.

Inhalation:

Causes chemical burns to the respiratory tract.

Chronic:

Not available.

### SECTION 4 - FIRST AID MEASURES



**Eyes:**

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

**Skin:**

Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

**Ingestion:**

Do not induce vomiting. Get medical aid immediately.

**Inhalation:**

Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

**Notes to Physician:**

Treat symptomatically and supportively.

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**SECTION 5 - FIRE FIGHTING MEASURES**

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**General Information:**

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors can travel to a source of ignition and flash back. Will burn if involved in a fire. Flammable liquid and vapor. Containers may explode if exposed to fire.

**Extinguishing Media:**

Use foam, dry chemical, or carbon dioxide.

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**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

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**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:**

Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Remove all sources of ignition. Use a spark-proof tool.

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**SECTION 7 - HANDLING and STORAGE**

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**Handling:**

Use spark-proof tools and explosion proof equipment. Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Use only in a chemical fume hood.

**Storage:**

Keep away from sources of ignition. Store in a cool, dry place. Store in a tightly closed container. Flammables-area.

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## SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

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### Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local explosion-proof ventilation to keep airborne levels to acceptable levels.

### Personal Protective Equipment

#### Eyes:

Wear chemical goggles.

#### Skin:

Wear appropriate protective gloves to prevent skin exposure.

#### Clothing:

Wear appropriate protective clothing to prevent skin exposure.

#### Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

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## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

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Physical State: Liquid

Color: Clear colourless liquid

Odor: ester-like

pH: Not available.

Vapor Pressure: Not available.

Viscosity: Not available.

Boiling Point: 66 - 67 deg C

Freezing/Melting Point: Not available.

Autoignition Temperature: Not available.

Flash Point: -1 deg C ( 30.20 deg F)

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature:

Solubility in water:

Specific Gravity/Density: 1.180

Molecular Formula: C<sub>5</sub>H<sub>5</sub>F<sub>3</sub>O<sub>2</sub>

Molecular Weight: 154.09

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## SECTION 10 - STABILITY AND REACTIVITY

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### Chemical Stability:

Not available.

### Conditions to Avoid:

Incompatible materials, ignition sources.

### Incompatibilities with Other Materials:

Strong oxidizing agents, strong reducing agents, strong acids, strong

bases.

**Hazardous Decomposition Products:**

Carbon monoxide, carbon dioxide, hydrogen fluoride gas.

Hazardous Polymerization: Has not been reported.

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**SECTION 11 - TOXICOLOGICAL INFORMATION**

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**RTECS#:**

CAS# 383-67-5 unlisted.

**LD50/LC50:**

Not available.

**Carcinogenicity:**

Allyl trifluoroacetate -

Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

See actual entry in RTECS for complete information.

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**SECTION 12 - ECOLOGICAL INFORMATION**

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**SECTION 13 - DISPOSAL CONSIDERATIONS**

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Dispose of in a manner consistent with federal, state, and local regulations.

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**SECTION 14 - TRANSPORT INFORMATION**

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**IATA**

Shipping Name: FLAMMABLE LIQUID, CORROSIVE, N.O.S.\*

Hazard Class: 3

UN Number: 2924

Packing Group: II

**IMO**

Shipping Name: FLAMMABLE LIQUID, CORROSIVE, N.O.S.

Hazard Class: 3

UN Number: 2924

Packing Group: II

**RID/ADR**

Shipping Name: FLAMMABLE LIQUID, CORROSIVE, N.O.S.

Hazard Class: 3

UN Number: 2924

Packing group: II

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**SECTION 15 - REGULATORY INFORMATION**

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**European/International Regulations**

European Labeling in Accordance with EC Directives

Hazard Symbols: F C

Risk Phrases:

- R 11 Highly flammable.
- R 34 Causes burns.

Safety Phrases:

- S 16 Keep away from sources of ignition - No smoking.
- S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 383-67-5: No information available.

United Kingdom Occupational Exposure Limits

United Kingdom Maximum Exposure Limits

Canada

None of the chemicals in this product are listed on the DSL/NDSL list.

CAS# 383-67-5 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

US FEDERAL

TSCA

CAS# 383-67-5 is not listed on the TSCA inventory.

It is for research and development use only.

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**SECTION 16 - ADDITIONAL INFORMATION**

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MSDS Creation Date: 7/16/1996 Revision #1 Date: 8/04/2003

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