



## MATERIAL SAFETY DATA SHEET

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### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**MSDS Name:** 4-FLUOROPHENYLACETONITRILE, 95%

**Catalog Numbers:**  
F082

**Synonyms:**  
LEONID CHEMICALS  
62/A-2 2nd Stage, Industrial Suburb  
Yeshwanthpur, Bangalore -22, INDIA  
Ph- +91-80-23378354

### SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS #	: 459-22-3
Chemical Name	: 4-FLUOROPHENYLACETONITRILE, 95%
%	: 95%
EINECS#	: 207-286-8
Hazard Symbols	: XN
Risk Phrases	: 20/21/22

### SECTION 3 - HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

Harmful by inhalation, in contact with skin and if swallowed.

#### Potential Health Effects

##### Eye:

May cause eye irritation.

##### Skin:

Harmful if absorbed through the skin.

##### Ingestion:

Harmful if swallowed.

##### Inhalation:

Harmful if inhaled.

##### Chronic:

Not available.



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## SECTION 4 - FIRST AID MEASURES

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### Eyes:

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

### Skin:

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

### Ingestion:

Get medical aid. Wash mouth out with water.

### Inhalation:

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

### Notes to Physician:

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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.

### Extinguishing Media:

Use water spray, dry chemical, carbon dioxide, or chemical foam.

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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.

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## SECTION 7 - HANDLING AND STORAGE

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### Handling:

Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.

### Storage:

Store in a cool, dry place. Store in a tightly closed container.

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## SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

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### Engineering Controls:

Use adequate ventilation to keep airborne concentrations low.

### Personal Protective Equipment

#### Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

#### 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	: Clear liquid
Color	: colorless
Odor	: Not available.
PH	: Not available.
Vapor Pressure	: Not available.
Viscosity	: Not available.
Boiling Point	: 119.0 - 120.0 deg C @ 18.00mm
Freezing/Melting Point	: 0 deg C
Autoignition Temperature	: Not available.
Flash Point	: 108 deg C ( 226.40 deg F)
Explosion Limits, lower	: Not available.
Explosion Limits, upper	: Not available.
Decomposition Temperature	:
Solubility in water	:
Specific Gravity/Density	: 1.1260g/cm3
Molecular Formula	: C8H6FN
Molecular Weight	: 135.14

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## SECTION 10 - STABILITY AND REACTIVITY

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#### Chemical Stability:

Not available.

#### Conditions to Avoid:

Not available.

#### Incompatibilities with Other Materials:

Not available.

#### Hazardous Decomposition Products:

Carbon monoxide, oxides of nitrogen, 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# 459-22-3: AM0210000

**LD50/LC50:**

Not available.

**Carcinogenicity:**

4-FLUOROPHENYLACETONITRILE, 95% -

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: TOXIC LIQUID, ORGANIC, N.O.S.\*

Hazard Class: 6.1

UN Number: 2810

Packing Group: II

**IMO**

Shipping Name: TOXIC LIQUID, ORGANIC, N.O.S.

Hazard Class: 6.1

UN Number: 2810

Packing Group: II

**RID/ADR**

Shipping Name: TOXIC LIQUID, ORGANIC, N.O.S.

Hazard Class: 6.1

UN Number: 2810

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: XN

Risk Phrases:

R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 459-22-3: No information available.

### United Kingdom Occupational Exposure Limits

### United Kingdom Maximum Exposure Limits

#### Canada

CAS# 459-22-3 is listed on Canada's NDSL List.

CAS# 459-22-3 is not listed on Canada's Ingredient Disclosure List.

#### Exposure Limits

US FEDERAL

TSCA

CAS# 459-22-3 is listed on the TSCA inventory.

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### SECTION 16 - ADDITIONAL INFORMATION

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MSDS Creation Date: 7/16/1996 Revision #0 Date: Original.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.