



## MATERIAL SAFETY DATA SHEET

2,3,5,6-Tetrafluoro-p-toluic acid, 98%

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### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**MSDS Name:** 2,3,5,6-Tetrafluoro-p-toluic acid, 98%

**Catalog Numbers:**

642

**Synonyms:**

**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#	Chemical Name	%	EINECS#	Haz Symbols	Risk Phrases
652-32-4	2,3,5,6-Tetrafluoro-p-toluic acid	98%	unlisted	XI	36/37/38

### SECTION 3 - HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

Irritating to eyes, respiratory system and skin.

Potential Health Effects

**Eye:**

Causes eye irritation.

**Skin:**

Causes skin irritation. May be harmful if absorbed through the skin.

**Ingestion:**

May cause irritation of the digestive tract. May be harmful if swallowed.

**Inhalation:**

Causes respiratory tract irritation. May be harmful if inhaled.

**Chronic:**

Not available.

### SECTION 4 - FIRST AID MEASURES

**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. Get medical aid.

**Notes to Physician:**

Treat symptomatically and supportively.

**SECTION 5 - FIRE FIGHTING MEASURES****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.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

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

**Spills/Leaks:**

Vacuum or sweep up material and place into a suitable disposal container.

**SECTION 7 - HANDLING and STORAGE****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.

**SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION****Engineering Controls:**

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

**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.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

**Physical State:** Crystals  
**Color:** white  
**Odor:** Not available.  
**pH:** Not available.  
**Vapor Pressure:** Not available.  
**Viscosity:** Not available.  
**Boiling Point:** Not available.  
**Freezing/Melting Point:** 168 deg C-172 deg C  
**Autoignition Temperature:** Not available.  
**Flash Point:** Not available.  
**Explosion Limits, lower:** Not available.  
**Explosion Limits, upper:** Not available.  
**Decomposition Temperature:**  
**Solubility in water:**  
**Specific Gravity/Density:**  
**Molecular Formula:** C8H4F4O2  
**Molecular Weight:** 208.11

**SECTION 10 - STABILITY AND REACTIVITY**

**Chemical Stability:**

Stable under normal temperatures and pressures.

**Conditions to Avoid:**

Incompatible materials.

**Incompatibilities with Other Materials:**

Strong oxidizing agents.

**Hazardous Decomposition Products:**

Carbon monoxide, carbon dioxide, hydrogen fluoride gas.

**Hazardous Polymerization:** Has not been reported

**SECTION 11 - TOXICOLOGICAL INFORMATION**

**RTECS#:**

CAS# 652-32-4 unlisted.

**LD50/LC50:**

Not available.

**Carcinogenicity:**

2,3,5,6-Tetrafluoro-p-toluic acid -

Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.  
See actual entry in RTECS for complete information.

#### SECTION 12 - ECOLOGICAL INFORMATION

#### SECTION 13 - DISPOSAL CONSIDERATIONS

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

#### SECTION 14 - TRANSPORT INFORMATION

IATA  
No information available.  
IMO  
No information available.  
RID/ADR  
No information available.

#### SECTION 15 - REGULATORY INFORMATION

##### European/International Regulations

European Labeling in Accordance with EC Directives

**Hazard Symbols:** Xi

**Risk Phrases:**

R 36/37/38 Irritating to eyes, respiratory system  
and skin.

**Safety Phrases:**

S 26 In case of contact with eyes, rinse immediately  
with plenty of water and seek medical advice.  
S 37/39 Wear suitable gloves and eye/face  
protection.

WGK (Water Danger/Protection)

**CAS# 652-32-4:** 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# 652-32-4 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

US FEDERAL

TSCA

CAS# 652-32-4 is not listed on the TSCA inventory.

It is for research and development use only.

## SECTION 16 - ADDITIONAL INFORMATION

MSDS Creation Date: 12/20/2000 Revision #0 Date: Original.

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