



## MATERIAL SAFETY DATA SHEET

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O-TOLUNITRILE, 98%

### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**MSDS Name:** O-TOLUNITRILE, 98%  
**Catalog Numbers:**  
T098  
**Synonyms:**  
CNT, 2-Methylbenzenecarbonitrile  
**Company Identification:**  
LEONID CHEMICALS  
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Ph- +91-80-23378354

### SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS #	:	529-19-1
Chemical Name	:	O-TOLUNITRILE, 98%
%	:	98%
EINECS#	:	208-451-7
Hazard Symbols	:	XI
Risk Phrases	:	36/38

### SECTION 3 - HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW**  
Irritating to eyes and skin.

#### Potential Health Effects

The toxicological properties of this material have not been investigated. Use appropriate procedures to prevent opportunities for direct contact with the skin or eyes and to prevent inhalation.

### 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.

#### Skin:

Flush skin with plenty of water for at least 15 minutes while



removing contaminated clothing and shoes.

Ingestion:

Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation:

Remove from exposure and move to fresh air immediately.

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:

In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant 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:

Not available.

Storage:

Not available.

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## SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

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Engineering Controls:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal Protective Equipment

Eyes:

Wear safety glasses and chemical goggles if splashing is possible.

Skin:

Wear appropriate protective gloves and clothing to prevent skin exposure.

Clothing:

Not available.

**Respirators:**

Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

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**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

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Physical State: Clear liquid  
Color: colorless - colorless to slight yellow  
Odor: Not available.  
pH: Not available.  
Vapor Pressure: 0.5 mbar @ 20 C  
Viscosity: 1.7 deg C  
Boiling Point: 205 deg C @ 760.00mm Hg  
Freezing/Melting Point: 0 deg C  
Autoignition Temperature: > 525 deg C (> 977.00 deg F)  
Flash Point: 84 deg C ( 183.20 deg F)  
Explosion Limits, lower: .07 vol %  
Explosion Limits, upper: .01 vol %  
Decomposition Temperature:  
Solubility in water: insoluble  
Specific Gravity/Density: .9890g/cm3  
Molecular Formula: C8H7N  
Molecular Weight: 117.15

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**SECTION 10 - STABILITY AND REACTIVITY**

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Chemical Stability:  
Stable under normal temperatures and pressures.  
Conditions to Avoid:  
Not available.  
Incompatibilities with Other Materials:  
Strong oxidizing agents, strong bases.  
Hazardous Decomposition Products:  
Nitrogen oxides, carbon monoxide, carbon dioxide, nitrogen.  
Hazardous Polymerization: Has not been reported.

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**SECTION 11 - TOXICOLOGICAL INFORMATION**

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RTECS#:  
CAS# 529-19-1: XV0600000  
LD50/LC50:  
CAS# 529-19-1: Oral, rat: LD50 = 3200 mg/kg.  
Carcinogenicity:  
O-TOLUNITRILE, 98% -  
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  
No information available.  
IMO  
No information available.  
RID/ADR  
No information available.

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**SECTION 15 - REGULATORY INFORMATION**

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European/International Regulations  
European Labeling in Accordance with EC Directives  
Hazard Symbols: XI  
Risk Phrases:  
R 36/38 Irritating to eyes and skin.  
Safety Phrases:  
S 37 Wear suitable gloves.  
WGK (Water Danger/Protection)  
CAS# 529-19-1: 2  
United Kingdom Occupational Exposure Limits

United Kingdom Maximum Exposure Limits

Canada

CAS# 529-19-1 is listed on Canada's NDSL List.  
CAS# 529-19-1 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

US FEDERAL

TSCA

CAS# 529-19-1 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.

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