



## MATERIAL SAFETY DATA SHEET

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Isonipecotic acid, 99%

### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**MSDS Name:** Isonipecotic acid, 99%

**Catalog Numbers:**

I0020

**Synonyms:**

Hexahydroisonicotinic acid, 4-Piperidinecarboxylic acid

**Company Identification (Europe):**

LEONID CHEMICALS

62/A-2 2nd Stage, Industrial Suburb

Yeshwanthpur, Bangalore -22, INDIA

Ph- +91-80-23378354

### SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS #	:	498-94-2
Chemical Name	:	Isonipecotic acid
%	:	99%
EINECS#	:	207-872-3
Hazard Symbols	:	XI
Risk Phrases	:	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.



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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. Get medical aid.

### 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.

### 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:

Vacuum or sweep up material and place into a suitable disposal 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:

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.

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## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

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Physical State: Powder  
Color: white - beige - light pink  
Odor: slight odor  
pH: Not available.  
Vapor Pressure: Not available.  
Viscosity: Not available.  
Boiling Point: Not available.  
Freezing/Melting Point: > 300 deg C  
Autoignition Temperature: Not available.  
Flash Point: Not available.  
Explosion Limits, lower: Not available.  
Explosion Limits, upper: Not available.  
Decomposition Temperature: > 336 deg C  
Solubility in water: soluble  
Specific Gravity/Density:  
Molecular Formula: C<sub>6</sub>H<sub>11</sub>NO<sub>2</sub>  
Molecular Weight: 129.16

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## SECTION 10 - STABILITY AND REACTIVITY

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**Chemical Stability:**

Stable.

**Conditions to Avoid:**

Incompatible materials.

**Incompatibilities with Other Materials:**

Strong oxidizing agents, strong reducing agents.

**Hazardous Decomposition Products:**

Nitrogen oxides, carbon monoxide, carbon dioxide.

Hazardous Polymerization: Will not occur.

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## SECTION 11 - TOXICOLOGICAL INFORMATION

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**RTECS#:**

CAS# 498-94-2: NS5150000

**LD50/LC50:**

Not available.

Oral, rat: LD50 = &gt;5000 mg/kg

**Carcinogenicity:**

Isonipecotic acid -

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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**Other**

Do not empty into drains. Avoid entering into waters or underground water.

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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 36/37/38 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# 498-94-2: No information available.

**United Kingdom Occupational Exposure Limits****United Kingdom Maximum Exposure Limits**

**Canada**

CAS# 498-94-2 is listed on Canada's NDSL List.

CAS# 498-94-2 is not listed on Canada's Ingredient Disclosure List.

**Exposure Limits****US FEDERAL****TSCA**

CAS# 498-94-2 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 #1 Date: 6/28/2000

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