



## MATERIAL SAFETY DATA SHEET

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### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**MSDS Name:** Hydroquinone Purified 500g

**Catalog Numbers:**

H061

**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 #	:	123-31-9
Chemical Name	:	HYDROQUINONE
%	:	
EINECS#	:	204-617-8
Hazard Symbols	:	XN
Risk Phrases	:	20/22

### SECTION 3 - HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

Harmful by inhalation and if swallowed.

#### 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:

Not available.

#### Skin:

Not available.

#### Ingestion:

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

#### Inhalation:

Not available.

#### 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:

Sweep up, then place into a suitable container for disposal.

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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	: Solid
Color	: White to off-white, fine crystals.
Odor	: None reported.
PH	: Not available.
Vapor Pressure	: 1 mm Hg @ 132C
Viscosity	: Not available.
Boiling Point	: 545 deg F
Freezing/Melting Point	: 342 deg F
Autoignition Temperature	: 960 deg F ( 515.56 deg C)
Flash Point	: 329 deg F ( 165.00 deg C)
Explosion Limits, lower	: Not available.
Explosion Limits, upper	: Not available.
Decomposition Temperature	: Not available.
Solubility in water	: 7% @ 20C in water.
Specific Gravity/Density	: 1.33 (water=1)
Molecular Formula	: C6H6O2
Molecular Weight	: 110.0408

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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 - air - light - strong bases.

**Hazardous Decomposition Products:**

Carbon monoxide, carbon dioxide.

Hazardous Polymerization: Has not been reported.

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## SECTION 11 - TOXICOLOGICAL INFORMATION

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**RTECS#:**

CAS# 123-31-9: MX3500000

**LD50/LC50:**

CAS# 123-31-9: Oral, mouse: LD50 = 245 mg/kg; Oral, mouse: LD50 = 350 mg/kg; Oral, rabbit: LD50 = 200 mg/kg; Oral, rat: LD50 = 302 mg/kg; Oral, rat: LD50 = 320 mg/kg.

**Carcinogenicity:**

HYDROQUINONE -

ACGIH: A3 - Animal Carcinogen

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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Products which are considered hazardous for supply are classified as Special Waste and the disposal of such chemicals is covered by regulations which may vary according to location. Contact a specialist disposal company or the local waste regulator for advice. Empty containers must be decontaminated before returning for recycling.

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## SECTION 14 - TRANSPORT INFORMATION

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### IATA

Shipping Name: HYDROQUINONE  
Hazard Class: 6.1  
UN Number: 2662  
Packing Group: III

### IMO

Shipping Name: HYDROQUINONE, SOLUTION  
Hazard Class: 6.1  
UN Number: 2662  
Packing Group: III

### RID/ADR

Shipping Name: HYDROQUINONE  
Hazard Class: 6.1  
UN Number: 2662  
Packing group: III

USA RQ: CAS# 123-31-9: 100 lb final RQ; 45.4 kg final RQ

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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 20/22 Harmful by inhalation and if swallowed.

Safety Phrases:

S 2 Keep out of reach of children.

S 24/25 Avoid contact with skin and eyes.

S 39 Wear eye/face protection.

WGK (Water Danger/Protection)

CAS# 123-31-9: 2

### United Kingdom Occupational Exposure Limits

CAS# 123-31-9: OES-United Kingdom, TWA 2 mg/m<sup>3</sup> TWA

CAS# 123-31-9: OES-United Kingdom, STEL 4 mg/m<sup>3</sup> STEL

### United Kingdom Maximum Exposure Limits

### Canada

CAS# 123-31-9 is listed on Canada's DSL List.

CAS# 123-31-9 is listed on Canada's Ingredient Disclosure List.

### Exposure Limits

CAS# 123-31-9: OEL-AUSTRALIA: TWA 2 mg/m<sup>3</sup>

OEL-BELGIUM: TWA 2 mg/m<sup>3</sup>

OEL-DENMARK:STEL 2 mg/m<sup>3</sup>  
OEL-FINLAND:TWA 2 mg/m<sup>3</sup>;STEL 4 mg/m<sup>3</sup>;Skin  
OEL-FRANCE:TWA 2 mg/m<sup>3</sup>  
OEL-GERMANY:TWA 2 mg/m<sup>3</sup>  
OEL-THE NETHERLANDS:TWA 2 mg/m<sup>3</sup>  
OEL-THE PHILIPPINES:TWA 2 mg/m<sup>3</sup>  
OEL-POLAND:TWA 2 mg/m<sup>3</sup>  
OEL-SWEDEN:TWA 0.5 mg/m<sup>3</sup>;STEL 1.5 mg/m<sup>3</sup>  
OEL-SWITZERLAND:TWA 2 mg/m<sup>3</sup>;STEL 4 mg/m<sup>3</sup>  
OEL-TURKEY:TWA 2 mg/m<sup>3</sup>  
OEL-UNITED KINGDOM:TWA 2 mg/m<sup>3</sup>;STEL 4 mg/m<sup>3</sup>  
OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV  
OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGI TLV

#### US FEDERAL

TSCA

CAS# 123-31-9 is listed on the TSCA inventory.

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#### SECTION 16 - ADDITIONAL INFORMATION

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MSDS Creation Date: 2/18/1995 Revision #0 Date: Original.

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