



## MATERIAL SAFETY DATA SHEET

CONTACT : **LEONID CHEMICALS**  
Leonid Chemicals Pvt Ltd  
62/A-2 1st Stage, Yeshwanthpur Industrial Suburb  
Ashokpuram School Road  
Bangalore-560 022, Karnataka, INDIA  
Ph: +91-80-2337 8354, Fax: +91-80-2357 4827

### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**MSDS Name:** 1-Hydroxybenzotriazole, 98%

**Catalog Numbers:**

16916-0000, 16916-0050, 16916-0250, 16916-1000

**Synonyms:**

HOBT

**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 #	:	2592-95-2
Chemical Name	:	1-Hydroxybenzotriazole
%	:	98%
EINECS#	:	219-989-7
Hazard Symbols	:	F
Risk Phrases	:	11 44 5

### SECTION 3 - HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW**

Highly flammable. Risk of explosion if heated under confinement.  
Heating may cause an explosion. Light sensitive.

**Potential Health Effects**

**Eye:**

May cause eye irritation. May cause chemical conjunctivitis and corneal damage.

**Skin:**

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

**Ingestion:**

May cause irritation of the digestive tract. May cause nausea, vomiting, abdominal pain, and increased salivation.

**Inhalation:**

May cause respiratory tract irritation. May be harmful if inhaled. Olfactory fatigue may occur. Can produce delayed pulmonary edema.



**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.

**Skin:**

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:**

NA

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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. Use water spray to keep fire-exposed containers cool. Containers may explode in the heat of a fire. May explode under confinement and high temperatures, especially if contaminated. Flammable solid. Containers may explode when heated.

**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 tightly closed container. Store in a dry area. Keep refrigerated. (Store below 4°C/39°F.)

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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

**Personal Protective Equipment****Eyes:**

Wear chemical goggles.

**Skin:**

Wear appropriate protective gloves and clothing to prevent skin exposure.

**Clothing:**

Wear a chemical apron.

**Respirators:**

A NIOSH/MSHA approved air purifying dust or mist respirator or European Standard EN 149.

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**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

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Physical State	: Solid
Color	: white to light beige
Odor	: Not available.
PH	: Not available.
Vapor Pressure	: Not available.
Viscosity	: Not available.
Boiling Point	: Not available.
Freezing/Melting Point	: 156 - 159 deg C(decom)
Autoignition Temperature	: Not available.
Flash Point	: Not available.
Explosion Limits, lower	: Not available.
Explosion Limits, upper	: Not available.
Decomposition Temperature	: 157 deg C
Solubility in water	NA
Specific Gravity/Density	NA
Molecular Formula	C <sub>6</sub> H <sub>5</sub> N <sub>3</sub> O
Molecular Weight	135.12

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**SECTION 10 - STABILITY AND REACTIVITY**

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**Chemical Stability:**

Stable under normal temperatures and pressures. Heating above 180°C results in rapid exothermic decomposition. Heating may cause an explosion.

**Conditions to Avoid:**

Incompatible materials, light, dust generation, temperatures above 150°C.

**Incompatibilities with Other Materials:**

Oxidizing agents, copper, nitrates.

**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# 2592-95-2: DM1288000

**LD50/LC50:**

CAS# 2592-95-2: Draize test, rabbit, eye: 100 mg Mild.  
Oral, rat: LD50 = 16330 mg/kg

**Carcinogenicity:**

1-Hydroxybenzotriazole -

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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NA

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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: FLAMMABLE SOLID, ORGANIC, N.O.S.\*

Hazard Class: 4.1

UN Number: 1325

Packing Group: II

**IMO**

Shipping Name: FLAMMABLE SOLID, ORGANIC, N.O.S.

Hazard Class: 4.1

UN Number: 1325

Packing Group: II

**RID/ADR**

Shipping Name: FLAMMABLE SOLID, ORGANIC, N.O.S.

Hazard Class: 4.1

UN Number: 1325

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: F

Risk Phrases:

R 11 Highly flammable.

R 44 Risk of explosion if heated under confinement.

R 5 Heating may cause an explosion.

Safety Phrases:

S 7/9 Keep container tightly closed and in a well-ventilated place.

S 16 Keep away from sources of ignition - No smoking.

S 33 Take precautionary measures against static discharges.

WGK (Water Danger/Protection)

CAS# 2592-95-2: No information available.

**United Kingdom Occupational Exposure Limits**

**United Kingdom Maximum Exposure Limits**

**Canada**

CAS# 2592-95-2 is listed on Canada's DSL List.

CAS# 2592-95-2 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

**US FEDERAL**

TSCA

CAS# 2592-95-2 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 #2 Date: 2/02/2004

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.



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