

MATERIAL SAFETY DATA SHEET (MSDS)**1-HYDROXYBENZOTRIAZOLE ANHYDROUS LR (HOBT)****1 - Chemical Product**

Product Name: 1-Hydroxybenzotriazole
Synonym: HOB

Cas NO: 2592-95-2

Product Coad: H0108900025

Molecular Formula: C₆H₅N₃O
Molecular Weight: 135.12

2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	content	EINECS#
2592-95-2	1-Hydroxybenzotriazole	98.0	219-989-7

3 - HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW**

Highly flammable. Risk of explosion if heated under confinement. Light sensitive.

Potential Health Effects

Eye: Dust may cause mechanical irritation. May cause lacrimation (tearing), blurred vision, and photophobia. May cause chemical conjunctivitis and corneal damage.

Skin: May cause skin irritation and possible burns.

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

Inhalation: Inhalation of dust may cause respiratory tract irritation. Olfactory fatigue may occur. Can produce delayed pulmonary edema.

Chronic: No information found.

4 - FIRST AID MEASURES

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Never give anything by mouth to an unconscious person. Get medical aid immediately. 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. If breathing is difficult, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

Notes to Physician:

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. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Dust can be an explosion hazard when exposed to heat or flame. Flammable solid.

May burn rapidly with flare burning effect. May re-ignite after fire is extinguished. Containers may explode when heated. Risk of explosion if heated under confinement.

Extinguishing Media: Use water spray to cool fire-exposed containers. For large fires, use water spray, fog or regular foam. Contact professional fire-fighters immediately. For small fires, use dry chemical, carbon dioxide, sand, earth, water spray or regular foam. Cool containers with flooding quantities of water until well after fire is out.

6 - ACCIDENTAL RELEASE MEASURES

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

Spills/Leaks: Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Scoop up with a nonsparking tool, then place into a suitable container for disposal. Avoid generating dusty conditions. Remove all sources of ignition. Provide ventilation.

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MATERIAL SAFETY DATA SHEET (MSDS)**1-HYDROXYBENZOTRIAZOLE ANHYDROUS LR (HOBT)****7 - HANDLING and STORAGE**

Handling:Wash thoroughly after handling. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Keep away from heat, sparks and flame. Avoid ingestion and inhalation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

Storage:Keep away from sources of ignition. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

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 general or local explosion-proof ventilation to keep airborne levels to acceptable levels.

Exposure Limits CAS# 2592-95-2: Personal Protective Equipment Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

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. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid

Color: white

Odor: None reported.

pH: Not available.

Vapor Pressure: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: 157 deg C dec

Autoignition Temperature: Not available.

Flash Point: Not applicable.

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature: 157 deg C

Solubility in water: 0.3% (20C)

Specific Gravity/Density:

10 - STABILITY AND REACTIVITY

Chemical Stability:Stable. Heating above 180C results in rapid exothermic decomposition. Heating may cause an explosion.

Conditions to Avoid:Incompatible materials, ignition sources, dust generation, excess heat, strong oxidants, heating above the melting point (155-158C).

Incompatibilities with Other Materials:Strong oxidizing agents, copper nitrate.

Hazardous Decomposition Products:Nitrogen oxides, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, nitrogen.

Hazardous Polymerization: Has not been reported.

11 - TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 2592-95-2: DM1288000 LD50/LC50:

CAS# 2592-95-2: Draize test, rabbit, eye: 100 mg Mild.

Carcinogenicity:1-Hydroxybenzotriazole - Not listed by ACGIH, IARC, or NTP.

Other:See actual entry in RTECS for complete information.

12 - ECOLOGICAL INFORMATION**13 - DISPOSAL CONSIDERATIONS**

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

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MATERIAL SAFETY DATA SHEET (MSDS)**1-HYDROXYBENZOTRIAZOLE ANHYDROUS LR (HOBT)****14 - TRANSPORT INFORMATION**

IATA
Shipping Name: FLAMMABLE SOLID, ORGANIC, N.O.S.*
Hazard Class: 4.1
UN Number: 1325
Packing Group: III
IMO
Shipping Name: FLAMMABLE SOLID, ORGANIC, N.O.S.
Hazard Class: 4.1
UN Number: 1325
Packing Group: III
RID/ADR
Shipping Name: FLAMMABLE SOLID, ORGANIC, N.O.S.
Hazard Class: 4.1
UN Number: 1325
Packing group: III

15 - REGULATORY INFORMATION

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.
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.
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.
US FEDERAL
TSCA
CAS# 2592-95-2 is listed on the TSCA inventory.

16. OTHER

Product Use: Laboratory Reagent.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

DISCLAIMER:

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
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- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

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