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MATERIAL SAFETY DATA SHEET (MSDS)

1H-TETRAZOLE (FOR DNA SYNTHESIS) (AMIDITE ACTIVATOR)

1 - Chemical Product

MSDS Name: 1H-Tetrazole 98% Material Safety Data Sheet
Cas NO: 288-94-8

Product Coad: T0203100025

Molecular Formula: CH₂N₄
Molecular Weight: 70.04

2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	content	EINECS#
288-94-8	1H-Tetrazole	98.0	206-023-4

3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Heating may cause an explosion. Contact with combustible material may cause fire.

Potential Health Effects

Eye: May cause conjunctivitis. May cause permanent corneal opacification.

Skin: May cause severe irritation and possible burns.

Ingestion: May cause burns to the gastrointestinal tract. May cause nausea, vomiting, and diarrhea, possibly with blood.

Inhalation: May cause acute pulmonary edema, asphyxia, chemical pneumonitis, and upper airway obstruction caused by edema.

Chronic: Not available.

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:

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. Strong oxidizer. Contact with other material may cause fire. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water with caution and in flooding amounts.

Extinguishing Media: In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam. Contact professional fire-fighters immediately.

6 - ACCIDENTAL RELEASE MEASURES

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. Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal. Remove all sources of ignition. In case of spill, sweep up solid or absorb liquid with inert material, then place into a biohazard container.

Wear protective equipment.

7 - HANDLING and STORAGE

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid contact with clothing and other combustible materials. Do not get on skin or in eyes. Avoid ingestion and inhalation.

Storage: Keep away from heat, sparks, and flame. Do not store near combustible materials. Store in a cool, dry place. Keep container closed when not in use. Keep refrigerated. (Store below 4C/39F.)

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 ventilation to keep airborne concentrations low. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels.

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Exposure Limits CAS# 288-94-8: Personal Protective Equipment Eyes: Wear safety glasses and chemical goggles if splashing is possible. 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 and clothing to prevent skin exposure. Wear appropriate gloves to prevent skin exposure.
Clothing:Wear a chemical apron. Wear appropriate protective clothing to minimize contact with skin. Wear appropriate clothing to prevent skin exposure.
Respirators:Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions. 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: 156.00 - 158.00 deg C
Autoignition Temperature: Not available.
Flash Point: 220 deg C (428.00 deg F)
Explosion Limits, lower: Not available.
Explosion Limits, upper: Not available.
Decomposition Temperature: 220 deg C
Solubility in water: 23g/100ml (20 c)
Specific Gravity/Density:

10 - STABILITY AND REACTIVITY

Chemical Stability:Stable. Stable under normal temperatures and pressures.
Conditions to Avoid:Incompatible materials, ignition sources, dust generation, combustible materials, reducing agents, strong oxidants.
Incompatibilities with Other Materials:Reducing agents.
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# 288-94-8 unlisted.
LD50/LC50:
Not available.
Carcinogenicity:
1H-Tetrazole - Not listed by ACGIH, IARC, or NTP.

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

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

14 - TRANSPORT INFORMATION

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
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MATERIAL SAFETY DATA SHEET (MSDS)**1H-TETRAZOLE (FOR DNA SYNTHESIS) (AMIDITE ACTIVATOR)**

RID/ADR

Shipping Name: FLAMMABLE SOLID, ORGANIC, N.O.S.
Hazard Class: 4.1
UN Number: 1325
Packing group: II

15 - REGULATORY INFORMATION

European/International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols: O
Risk Phrases:
R 5 Heating may cause an explosion.
R 8 Contact with combustible material may cause fire.
Safety Phrases:
WGK (Water Danger/Protection)
CAS# 288-94-8: No information available.
Canada
None of the chemicals in this product are listed on the DSL/NDSL list.
CAS# 288-94-8 is not listed on Canada's Ingredient Disclosure List.
US FEDERAL
TSCA
CAS# 288-94-8 is not listed on the TSCA inventory.
It is for research and development use only.

16. Other Information

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.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **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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