



Material Safety Data Sheet

Section I: Identification & Information

Name: 1H-Tetrazole
Chemical Family: Heterocycle

Synonyms: Tetrazole
Formula: CH_2N_4 M.W.: 70.05

DOT Proper Shipping Name: 1-H Tetrazole
DOT Identification No.: UN0504 CAS No.: 288-94-8
DOT Hazard Class: Explosive
Rail and air transportation are forbidden

Section II: Physical Properties

Appearance: White crystalline powder	Odor: Odorless
Vapor Pressure @ 20°C: n/a	Vapor Density (air=1): n/a
Percent Volatile by Volume: n/a	Specific Gravity ($\text{H}_2\text{O}=1$): n/a
Evaporation Rate (BuAc =1): n/a	Solubility in H_2O : 23g/100mL (20°C)
Boiling Point: n/a	Melting point: 154-158°C
Stability: Stable at normal temperature and pressure. May decompose rapidly and explosively if heated above melting point.	

Section III: Reactivity Hazard Data

Hazardous polymerization will not occur.

Conditions to avoid: Heat, open flames, open containers, poor ventilation.

Materials to avoid: Strong oxidizing materials, strong acids, acid chlorides and acid anhydrides. Avoid temperatures above 154°C.

Hazardous decomposition products: Carbon monoxide, carbon dioxide, and nitrogen oxide compounds.

Section VII: Special Protection

Ventilation: Mechanical ventilation is required to eliminate dust.

Respiratory Protection: NIOSH approved respirators.

Skin Protection: Protective rubber or neoprene gloves and clothing are recommended.

Eye Protection: Laboratory safety glasses are minimum protection. Goggles or faceshield are preferred. Contact lenses should not be worn when working with this material.

Emergency eye wash fountains and safety showers should be available in the vicinity of any potential exposure.

Section VIII: Spill and Disposal Procedures

Sweep up spilled material, place in a bag and hold for waste disposal. Use approved respiratory protection. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Waste Disposal: Dissolve or mix with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Dispose in accordance with all federal, state, and local environmental laws.

Section IX: Storage

Avoid contact with skin, eyes, and clothing. 1H-Tetrazole should be stored in a tightly sealed container. Store in a cool, dry place.

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Key:

ca: Approximately

PEL: Permissible Exposure Level

STEL: Short Term Exposure Level

TWA: Time Weighted Average

BuAc: Butyl Acetate

TLV: Threshold Limit Value

n/a: not available

