

benzothiazole 95-16-9 MSDS

Name:	Benzothiazole 97% Material Safety Data Sheet
Synonym:	1-Thia-3-azaindene; Benzosulfonazole; Benzosulfonat
CAS:	95-16-9

Section 1 - Chemical Product

MSDS Name: Benzothiazole 97% Material Safety Data Sheet

Synonym: 1-Thia-3-azaindene; Benzosulfonazole; Benzosulfonat

Section 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	content	EINECS#
95-16-9	Benzothiazole	97	202-396-2

Hazard Symbols: XN

Risk Phrases: 22

Section 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Harmful if swallowed. The toxicological properties of this material have not been fully investigated.

Potential Health Effects

Eye:

May cause mild eye irritation.

Skin:

May cause mild skin irritation. May be absorbed through the skin in harmful amounts.

Ingestion:

Harmful if swallowed. May cause irritation of the digestive tract.

The toxicological properties of this substance have not been fully investigated.

Inhalation:

May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated. May cause dizziness, incoordination, and unconsciousness.

Chronic:

No information found.

Section 4 - FIRST AID MEASURES

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid.

Skin:

In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get

medical aid if irritation develops and persists. Wash clothing before reuse.

Ingestion:

If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

Treat symptomatically and supportively.

Section 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.

Extinguishing Media:

In case of fire, use carbon dioxide, dry chemical powder or appropriate foam.

Section 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.

Avoid runoff into storm sewers and ditches which lead to waterways. Wash area with soap and water. Clean up spills immediately, observing precautions in the Protective Equipment section.

Provide ventilation.

Section 7 - HANDLING and STORAGE

Handling:

Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Use only in a chemical fume hood.

Storage:

Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 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.

Exposure Limits CAS# 95-16-9: Personal Protective Equipment Eyes: Wear chemical splash goggles.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid
Color: yellow to brown
Odor: aromatic odor
pH: Not available.
Vapor Pressure: 34 mm Hg @131 deg C
Viscosity: Not available.
Boiling Point: 231 deg C @ 760.00mm Hg
Freezing/Melting Point: 2 deg C
Autoignition Temperature: Not available.
Flash Point: > 112 deg C (> 233.60 deg F)
Explosion Limits, lower: Not available.
Explosion Limits, upper: Not available.
Decomposition Temperature:
Solubility in water: Slightly soluble.
Specific Gravity/Density: 1.2380g/cm³
Molecular Formula: C₇H₅NS
Molecular Weight: 135.18

Section 10 - STABILITY AND REACTIVITY

Chemical Stability:
Stable under normal temperatures and pressures.
Conditions to Avoid:
Incompatible materials, excess heat.
Incompatibilities with Other Materials:
Strong oxidizing agents, acids, bases.
Hazardous Decomposition Products:
Nitrogen oxides, carbon monoxide, oxides of sulfur, carbon dioxide.
Hazardous Polymerization: Has not been reported

Section 11 - TOXICOLOGICAL INFORMATION

RTECS#:
CAS# 95-16-9: DL0875000 LD50/LC50:
CAS# 95-16-9: Draize test, rabbit, eye: 100 uL/24H Mild; Draize test, rabbit, skin: 500 uL/24H Mild;
Oral, mouse: LD50 = 900 mg/kg; Oral, rat: LD50 = 380 mg/kg.
Not available.
Carcinogenicity:
Benzothiazole - Not listed by ACGIH, IARC, or NTP.
Other:
See actual entry in RTECS for complete information.

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity:

Bacteria: *Phytobacterium phosphoreum*: EC50 = 1.81-2.09 mg/L; 5,15,30 min; Microtox test at 15 C

Section 13 - DISPOSAL CONSIDERATIONS

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

Section 14 - TRANSPORT INFORMATION

IATA

Shipping Name: TOXIC LIQUID, ORGANIC, N.O.S.*

Hazard Class: 6.1

UN Number: 2810

Packing Group: III

IMO

Shipping Name: TOXIC LIQUID, ORGANIC, N.O.S.

Hazard Class: 6.1

UN Number: 2810

Packing Group: III

RID/ADR

Shipping Name: TOXIC LIQUID, ORGANIC, N.O.S.

Hazard Class: 6.1

UN Number: 2810

Packing group: III

Section 15 - REGULATORY INFORMATION

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN

Risk Phrases:

R 22 Harmful if swallowed.

Safety Phrases:

WGK (Water Danger/Protection)

CAS# 95-16-9: 2

Canada

CAS# 95-16-9 is listed on Canada's DSL List.

CAS# 95-16-9 is not listed on Canada's Ingredient Disclosure List.

US FEDERAL

TSCA

CAS# 95-16-9 is listed on the TSCA inventory.

SECTION 16 - ADDITIONAL INFORMATION

N/A

