

Certis U.S.A., LLC
9145 Guilford Road, Suite 175
Columbia, Maryland 21046

EMERGENCY TELEPHONE NUMBER

CHEM•TEL (800) 255-3924
Outside North America Call Collect (813) 248-0585

PRODUCT INFORMATION

Trade Name:	Basamid® Granular Soil Fumigant		
Synonyms:	Dazomet		
Description:	Dazomet, 99% pure		
Active Ingredient:	Tetrahydro-3,5-dimethyl-2H-1,3,5-thiadiazine-2-thione		
Empirical Formula / molecular mass:	C ₅ H ₁₀ N ₂ S ₂ / 162.3 g mol ⁻¹		
Chemical Family:	Thiadiazine		
Inert Ingredients:	NA		
SARA Title III Section 313:	Listed		
CAS #:	533-74-4	PEL:	Not Established
DOT Shipping Name:	None	TLV:	Not Established
DOT Hazard Class:	None	Bill of Lading Descriptions:	
DOT Labels Required:	None	By Land:	Compounds, Tree or Weed Killing, (Herbicides), NOIBN Environmentally Hazardous Substance,
DOT Placards Required:	None	Bulk by Water:	Solid, NOS (contains dazomet), 9, UN 3077, PG III, ERG 171, Marine Pollutant
UN Code:	UN 3077		

PHYSICAL DATA

Boiling Point _{760mm Hg} :	104°C	Density:	0.6 – 0.8 kg L ⁻¹
Vapor Pressure _{20°C} :	5.8 × 10 ⁻⁹ bar	pH:	Not Determined
Water Solubility:	insoluble	Appearance:	White-yellow solid

HEALTH HAZARDS / EFFECTS

Hazards to Humans and Domestic Animals

Hazard Statements:

WARNING / AVISO Keep out of Reach of Children

CERTIS

Effects of overexposure:

WARNING: May be fatal if swallowed. DO not breath vapor or dust. Do not get in eyes, on skin, or on clothing. Prolonged exposure may cause irritation to skin, eyes, and mucous membranes. The gases released during the degradation of this product in soul are irritating to the skin, eyes, and mucous membranes. Do not drink alcoholic beverage before during or after working with this product. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Existing medical conditions aggravated by exposure:

No information found for this mixture.

Animals fed 40 ppm Basamid® for two years exhibited liver effects. Rats fed 10 ppm for two years exhibited kidney necrosis.

TOXICOLOGICAL TEST DATA

Rat, Oral LD ₅₀	519 mg kg ⁻¹
Rat, Dermal LD ₅₀	> 2000 mg kg ⁻¹
Rat, Inhalation LC ₅₀ (4hr)	8.4 mg L ⁻¹
Rabbit, Oral LD ₅₀	120 mg kg ⁻¹
Rabbit, Dermal LD ₅₀	7000 mg kg ⁻¹
Rabbit, Eye Irritation	Not irritating
Rabbit, Skin Irritation	Not irritating

Basamid® Granular is not a sensitizer; however, the hydrolysis product methyl isocyanate has been shown to be sensitizing in animal tests.

EMERGENCY AND FIRST AID PROCEDURES

Skin:	Immediately flush affected areas with large amounts of soap and water. Obtain medical attention for irritation.
Eyes:	Immediately flush eyes with large amounts of water and get medical attention.
Inhalation:	Assist respiration as needed. Obtain medical attention for irritation. Call a physician or poison control center. Induce vomiting by giving two glasses of warm water and touching back of throat. Do not induce vomiting or give anything by mouth to an unconscious person.
Ingestion:	Do not drink alcoholic beverages before, during, or after working with this product
WARNNG:	
Note to physician:	Treat symptomatically – no known specific antidote.

HEALTH PROTECTION MEASURES

Respiratory Protection:	Supplied air respirators should be worn if large quantities of dust are generated or prolonged exposure in possible.
Ventilation:	Whenever possible, engineering controls should be used to

Protective Clothing:

minimize the need for personal protective equipment.
Gloves, long sleeved shirt, and slacks.

Eye Protection:

Chemical goggles when respirator does not provide eye protection.

FIRE AND EXPLOSION HAZARD DATA

Flash Point:	199°F	Auto-ignition Temperature:	518°F
Flammable Limits:	Not Determined	Flammability limits in air:	Not determined
Extinguishing Media:	Water spray, foam, or Dry Chemical	NFPA 704 Hazard Codes:	Health 2, Flammable 3*, Reactivity 1*
Special firefighting procedures:	Firefighters should be equipped with self-contained breathing apparatus and turnout gear.		
Unusual fore explosion hazards:	*Can form flammable dust / air mixtures at 30 g / m ³ air. CO ₂ unsuitable for extinguishing media die to dust explosion hazard. The following can be given off in a fire: toxic gases, sulfur dioxides, nitrogen oxides.		

REACTIVITY DATA

Hazardous Decomposition:	Decomposes into Methyl isocyanate when in contact with water.	Stability:	Unstable in water
Hazardous Polymerization:	Does not occur	Condition to Avoid:	Do not store above 104°F

ENVIRONMENTAL TOXICITY DATA

This product is toxic to algae and fish. Apply this product as specified on the label.

Rainbow Trout, 96 hr LC ₅₀	0.16 mg L ⁻¹
Bluegill Sunfish, 96 hr LC ₅₀	0.16 mg L ⁻¹
Daphnia magna, 48 hr LC ₅₀	0.3 mg L ⁻¹
Mallard Duck, LC ₅₀	415 mg kg ⁻¹
Bacterial Toxicity, 17 hr EC ₁₀	1.8 mg L ⁻¹

SPILL, DISPOSAL, AND STORAGE PROCEDURES

Spill and leak procedures:	Avoid contact with spilled material. Isolate area and confine spill. KEEP DRY, wet material may release Methyl ioscyanate. Cover dry material to prevent dispersal. Place spilled material and damaged package in a labeled container.
Waste Disposal Method:	Bury in a licensed facility. Do not discharge into waterways or sewer systems without proper authority. Consult federal, state of local authorities for approved alternative procedures.
Container disposal:	Empty package completely into application equipment. Empty package should be disposed of in approved landfill or by incineration.

Reason for Issue:
Approval Date:
Supersedes Date:

New Product
December 2, 2005
NA

To the best of our knowledge, the information contained herein is accurate. However, neither Certis USA nor any of its subsidiaries assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All material may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

CERTIS