

**MATERIAL SAFETY DATA SHEET**

Agricultural Products Group  
P.O.Box 13528,  
Research Triangle Park, NC 27709

**EMERGENCY TELEPHONE NUMBERS:**

**BASF Corporation: 1 (800) 832-HELP**  
**CHEMTREC: 1 (800) 424-9300**

**Product No.: 634512**                      **Basamid® Granular soil fumigant**

**Date Prepared: 4/27/88**    **Date Revised: 3/1/2000**

**SECTION I**

**Trade Name: Basamid® Granular soil fumigant**

**Chemical Name: Tetrahydro-3,5-dimethyl-2H-1,3,5-thiadiazine-2-thione**

**Synonyms: Dazomet**

**Formula: C(5) H(10) N(2) S(2)**

**Chemical Family: Thiadiazine**

**Mol Wt: 162.3**

**SECTION II - INGREDIENTS**

COMPONENT	CAS NO.	%	PEL/TLV - SOURCE
Dazomet	533-74-4	99	Not established
Inerts	N/A	1	

**SARA Title III Section 313: Listed**

**SECTION III - PHYSICAL DATA**

**BOILING/MELTING POINT@760mm Hg: 104 °C**                      **pH: N/D**

**VAPOR PRESSURE mmHg @ 20°C: 0.0000058 mbar**

**SPECIFIC GRAVITY OR BULK DENSITY: 0.6 - 0.8 kg/L**

**SOLUBILITY IN WATER: Insoluble**

**APPEARANCE: White/yellowish solid**

**ODOR: Characteristic**

**INTENSITY: Odorous**

**SECTION IV - FIRE AND EXPLOSION DATA**

**FLASH POINT (TEST METHOD): 199 °F**

**AUTOIGNITION TEMP: 518°F**

**FLAMMABILITY LIMITS IN AIR (% BY VOL):**

**LOWER: N/D**

**UPPER: N/D**

**NFPA 704 HAZARD CODES**

**HEALTH: 2**

**FLAMMABLE: 3\***

**REACTIVITY: 1\***

**OTHER:**

**NFPA 30 STORAGE CLASSIFICATION: Non-flammable solid**

**EXTINGUISHING MEDIUM**

Use water spray, foam or dry chemical extinguishing media.

**SPECIAL FIREFIGHTING PROCEDURES**

Firefighters should be equipped with self-contained breathing apparatus and turnout gear.

**UNUSUAL FIRE EXPLOSION HAZARDS**

\*Can form flammable dust/air mixtures @ 30 g/m(3) air. CO(2) unsuitable extinguishing media due to dust explosion hazard. The following can be given off in a fire: toxic gases, sulphur dioxides, nitrogen oxides.

**SELECT ACRONYM KEY**

**N/A - Not available; N/D - Not determined; N/R - Not rated; N/E - Not established**

**SECTION V - HEALTH DATA****TOXICOLOGICAL TEST DATA:**

For Basamid® Granular:

Rat, Oral LD50 = 519 mg/kg

Rat, Dermal LD50 > 2000 mg/kg

Rat, Inhalation LC50 (4 hr) = 8.4 mg/L

Rabbit, Oral LD50 = 120 mg/kg

Rabbit, Dermal LD50 = 7000 mg/kg

Rabbit, Eye Irritation - Not irritating

Rabbit, Skin Irritation - Not irritating

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

**EFFECTS OF OVEREXPOSURE:**

**See Product Label and Directions For Use for additional precautionary statements.**

Precautionary Statements

Hazards to Humans and Domestic Animals

WARNING. May be fatal if swallowed. Do not breathe 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 soil are irritating to the skin, eyes, and mucous membranes.

Do not drink alcoholic beverages before, during, or after working with this product.

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Animals fed 40 ppm Basamid® for two years exhibited liver effects.

Rats fed 10 ppm for two years exhibited kidney necrosis.

Existing medical conditions aggravated by exposure to this material: No information found for this mixture.

**FIRST AID PROCEDURES****Statement of practical treatment**

**If swallowed:** Call a physician or Poison Control Center. Induce vomiting by giving two glasses of warm water and touching back of throat. Repeat until vomit is clear. Do not induce vomiting or give anything by mouth to an unconscious person.

**If in eyes:** Immediately flush eyes with large amounts of water and get medical attention.

**If on skin:** Immediately flush affected areas with large amounts of soap and water. Obtain medical attention for irritation.

**If inhaled:** Assist respiration as needed. Obtain medical attention for irritation.

**WARNING:** Do not drink alcoholic beverages before, during, or after working with this product.

**Note to physician:** Treat symptomatically. No known specific antidote.

**SECTION VI - REACTIVITY DATA**

**STABILITY:** Stable. Do not store above 104°F. Unstable in water.

**CONDITIONS TO AVOID:** Flammable dust/air mixtures can form @ 30 g/m(3) air.

**CHEMICAL INCOMPATIBILITY:** In contact with water, decomposes to methyl isothiocyanate.

**HAZARDOUS DECOMPOSITION PRODUCTS:** CO, CO(2), NOx, SO(2).

**HAZARDOUS POLYMERIZATION:** Does not occur.

**CONDITIONS TO AVOID:** None known.

**CORROSIVE TO METAL:** No

**OXIDIZER:** No



**SECTION IX - SHIPPING DATA - PACKAGE AND BULK****D.O.T. PROPER SHIPPING NAME (49CFR172.101-102):**

None

**HAZARDOUS SUBSTANCE****(49CFR CERCLA LIST):**

No

**RQ(lbs):** None**D.O.T. HAZARD CLASSIFICATION (CFR 172.101-102):****PRIMARY**

None

**SECONDARY**

None

**D.O.T. LABELS REQUIRED (49CFR172.101-102):**

None

**D.O.T. PLACARDS****REQUIRED (CFR172.504):**

None

**POISON CONSTITUENT****(49CFR172.203(K)):**

None

**BILL OF LADING DESCRIPTION**

By Land: Compounds, Tree or Weed Killing, (Herbicides), NOIBN

Bulk by Water: Environmentally Hazardous Substance, Solid, NOS (contains dazomet), 9, UN 3077, PG III, ERG 171, Marine Pollutant

**CC NO.:** 354**UN/NA CODE:** UN 3077**SECTION X - ADDITIONAL INFORMATION****Basamid® Granular soil fumigant**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
 (If you do not understand this label, find someone to explain it to you in detail.)

**EPA Reg. No. 7969-99****KEEP OUT OF REACH OF CHILDREN****WARNING/AVISO****Complete Label and Directions For Use are attached to the product.****Agricultural Use Requirements**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

**Made In Germany**

BASF Corporation

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Research Triangle Park, NC 27709-3528

**DISCLAIMER**

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