

MATERIAL SAFETY DATA SHEET

Agricultural Products Group
P.O.Box 13528,
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EMERGENCY TELEPHONE NUMBERS:

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

Product No.: 556161 **Sanmite® miticide/insecticide**

Date Prepared: 11/16/94 **Date Revised: 10/26/99**

SECTION I

Trade Name: Sanmite® miticide/insecticide

Chemical Name: See Section II - Ingredients

Synonyms: NC-129, NCI-129, BAS 300 11 I, BAS 9078 I, Pyridaben **Formula:** C(19) H(25) Cl N(2) O S

Chemical Family: Pyridazinone

Mol Wt: 364.9

SECTION II - INGREDIENTS

COMPONENT	CAS NO.	%	PEL/TLV - SOURCE
2-tert-butyl-5-(4-tert-butylbenzylthio)-4-chloropyridazin-3(2H)-one*	96489-71-3	75	0.01 mg/m(3) BASF recommended
Inerts	None	25	Not established

*Common chemical name: Pyridaben

This formulation contains kaolin. Kaolin contains small amounts of crystalline silica.
This formulation may contain more than 0.1% crystalline silica.

SARA Title III Section 313: Not listed

SECTION III - PHYSICAL DATA

BOILING/MELTING POINT @760mm Hg: 112 °C / 234 °F **pH:** 8.7 - 8.8

VAPOR PRESSURE mmHg @ 20°C: N/D

SPECIFIC GRAVITY OR BULK DENSITY: 15.6 lb/ft(3) 13.45 lb/ft(3)

SOLUBILITY IN WATER: Dispersible

APPEARANCE: Light tan powder

ODOR: Vanilla

INTENSITY: Faint

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT (TEST METHOD): N/D **AUTOIGNITION TEMP:** **See below

FLAMMABILITY LIMITS IN AIR (% BY VOL): **LOWER:** N/D **UPPER:** N/D

NFPA 704 HAZARD CODES

HEALTH: 4 **FLAMMABLE:** 3 **REACTIVITY:** 1 **OTHER:**

NFPA 30 STORAGE CLASSIFICATION: N/D

EXTINGUISHING MEDIUM	Use water fog, foam, CO(2), or dry chemical extinguishing media.
SPECIAL FIREFIGHTING PROCEDURES	Firefighters should be equipped with self-contained breathing apparatus and turnout gear.
UNUSUAL FIRE EXPLOSION HAZARDS	Explosive dust/air mixtures can form in atmospheres as low as 9% oxygen. Ignition energy required is as low as 15 millijoules. Typical dust/air mixtures capable of exploding contain 40 g per cubic meter. **Exotherm initiation temperature (Greiner oven): 394° C

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:

Rat, Acute Oral LD50 = 1930 mg/kg
 Rat, Acute Dermal LD50 > 2000 mg/kg
 Rat, Acute Inhalation LC50 (4 hour) = 0.09 mg/L
 Rat, Acute Inhalation LC50 (1 hour) (calculated) = 0.36 mg/L
 Rabbit, Eye Irritation - Moderately irritating
 Rabbit, Skin Irritation - Moderate
 Guinea pig, Dermal Sensitizer - Not sensitizing

Pyridaben was found not to be teratogenic in two species tested, but at a maternally toxic dose the compound did produce only slight non-specific developmental effects in one species.

EFFECTS OF OVEREXPOSURE:

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

Hazards to Humans and Domestic Animals

WARNING. May be fatal if inhaled. Do not breathe dust or spray mist. Harmful if swallowed or absorbed through skin. Avoid contact with skin. Remove contaminated clothing and wash before reuse. Causes moderate eye irritation. Do not get in eyes or on clothing. Wash thoroughly with soap and water after handling.

For a minor component of the formulation:

Overexposure to crystalline silica results in silicosis, a lung disease characterized by coughing, difficult breathing, wheezing, scarring of the lungs, and repeated, non-specific chest illnesses. The International Agency for Research on Cancer (IARC) has classified crystalline silica in Group 2A (those agents with limited evidence of carcinogenicity to humans.)

Existing medical conditions aggravated by exposure to this material:

No information found for this mixture.

FIRST AID PROCEDURES

Statement of practical treatment

If inhaled: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

If swallowed: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. If person is unconscious, do not give anything by mouth and do not induce vomiting.

If on skin: Wash with plenty of soap and water. Get medical attention if irritation persists.

If in eyes: Flush eyes with plenty of water. Call a physician if irritation persists.

Note to physician: This compound does not cause any definitive symptoms that would be diagnostic. No specific antidote is available. Treat the patient symptomatically. In case of medical emergencies, call 1-800-832-HELP.

SECTION VI - REACTIVITY DATA

STABILITY: Stable under normal conditions; relatively unstable to light.

CONDITIONS TO AVOID: Do not store with food, beverages, or animal feed.

CHEMICAL INCOMPATIBILITY: Pyridaben is a reducing agent - AVOID OXIDIZERS

HAZARDOUS DECOMPOSITION PRODUCTS: HCl, NO_x, SO_x, CO

HAZARDOUS POLYMERIZATION: Does not occur

CONDITIONS TO AVOID: N/A

CORROSIVE TO METAL: No

OXIDIZER: No

SECTION VII - PERSONAL PROTECTION

PESTICIDE APPLICATORS & WORKERS must refer to the Product Label and Directions For Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170.

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:

Respiratory Protection:

For handling activities, use dust/mist filtering respirator (MSHA/NIOSH approval numbers prefix TC-21C), or a NIOSH approved respirator with a NPR or HE filter.

Eye Protection:

Wear goggles, face shield, or safety glasses.

Protective Clothing:

Wear long-sleeved shirt and long pants, socks and shoes, and waterproof gloves.

Ventilation:

Dust collectors need to be designed to trap and hold the potentially explosive and toxic particles.

SECTION VIII - ENVIRONMENTAL DATA**ENVIRONMENTAL TOXICITY DATA**

For the active ingredient:

Bobwhite Quail, Oral LD50 > 2250 mg/kg

Mallard Duck, Oral LD50 > 2500 mg/kg

This pesticide is toxic to fish and aquatic invertebrates.

Consult label and Directions For Use for additional environmental hazards.

Product No.: 556161

Sanmite® miticide/insecticide

BASF Corporation

SARA 311/312 REPORTING**FIRE: Yes PRESSURE: No REACTIVITY: No ACUTE: Yes CHRONIC: Yes TPQ(lbs): 10,000****SPILL AND LEAK PROCEDURES:**

Emergency response workers should don SCBA with Level B protection if dusts will be generated. If possible, keep spilled material dry and recover for use. Spilled material may be carefully swept up and returned to original container.

HAZARDOUS SUBSTANCE SUPERFUND: No RQ(lbs): None**WASTE DISPOSAL METHOD:**

All pesticide waste are considered acutely toxic. Dispose of in an approved manner (consult local authority) only as a last resort. Otherwise, apply according to label instructions. Consult label and Directions For Use.

HAZARDOUS WASTE 40CFR261: No**HAZARDOUS WASTE NUMBER: N/A****CONTAINER DISPOSAL:**

The inner and outer packaging should be incinerated or disposed of in a sanitary landfill, or if allowed by state and local authorities, by burning. If burned, stay out of smoke. Do not re-use empty container.

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

Pesticide, solid, toxic, NOS (contains pyridaben)

HAZARDOUS SUBSTANCE (49CFR CERCLA LIST):

Not listed

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

Poison

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

Poison

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

Poison

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

Pyridaben

BILL OF LADING DESCRIPTION

Pesticides, solid, toxic, NOS (contains pyridaben), 6.1, UN 2588, PG I, ERG 151

CC NO.:**UN/NA CODE:** UN 2588

SECTION X - ADDITIONAL INFORMATION**Sanmite® miticide/insecticide**

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. 7969-106

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.

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