

5% DIAZINON GRANULES SAFETY DATA SHEET

Manufacturer's Name & Address
Southern Agricultural Insecticides, Inc.
PO Box 218, Palmetto, Fla. 34220

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I NOMENCLATURE

Product Name: 5% DIAZINON GRANULES EPA Reg. No. 829-2664
Chemical Name: O,O-diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl)-phosphorothioate
Synonyms: Diazinon, D.Z.N
Chemical Family: Organophosphate insecticide

II INGREDIENTS

	Nominal %	CAS#	OSHA PEL	ACGIH TLV
Diazinon	5.2%	333-41-5	Removed from Z-1	0.1 mg/m ³ (skin)
Natural organic carrier (PNOR)	92.7%	N/A	15 mg/m ³ TOTAL DUST 5 mg/m ³ RESPIRABLE DUST	

III PHYSICAL PROPERTIES (Not applicable = N.A. Not available=N/A)

Boiling Point: N.A. Specific Gravity: 36-38 lbs/ft³
Vapor Pressure: (mmHg)N/A. Percent Volatile: (by volume) N/A
Vapor Density: (air=1) N/A Evaporation Rate: (Butyl acetate=1) N/A
Solubility In Water: (technical diazinon) 40 ppm @ 20oC.
Reactivity in Water: S-TEPP and Diazinon may result when exposed to small amounts of water.
This will not occur when material is mixed with large amounts of water.
Appearance/Odor: Light brown granules with mercaptanic odor..

IV FIRE AND EXPLOSION DATA

Flash Point: (corn cob granules) 388oF
Minimum explosive concentration: (corn cob granules) 0.045 oz/ft³.
Extinguishing Media: Dry chemical, foam, or CO₂. If water must be used apply as a fine spray and contain runoff.
Special Fire Fighting Procedures: Prevent human exposure to fire, smoke, fumes, or products of combustion. Evacuate nonessential personnel from area. Firemen should wear full protective clothing and self contained breathing apparatus (air-pack).
Unusual Fire & Explosion Hazards: Toxic vapors may be formed. Packaged material does not burn readily, under small fire conditions, but smoldering product may still produce toxic gases.

V FIRST AID

EYE Exposure: Flush eyes a gentle stream of clean water for at least 15 minutes. Hold eye lids apart to ensure washing underside of lids. Remove contact lenses while rinsing. Do not attempt to neutralize with chemical agents. See a physician.

SKIN Exposure: Remove contaminated clothing. Wash thoroughly with soap and water. If symptoms occur, obtain medical advice.

INHALATION: Remove from contaminated atmosphere. Apply artificial respiration If necessary, preferably by mechanical means. get medical attention.

If SWALLOWED: If victim is conscious and alert, Wash out mouth with water, expectorate, and then immediately give 2-3 glasses of water to drink. Induce vomiting by touching the back of the throat with finger. Do not induce vomiting or give anything by mouth to an unconscious or convulsing person. Do not leave victim unattended. Vomiting may occur spontaneously. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. If vomiting occurs and the victim is conscious give additional water to further dilute the chemicals. Get immediate medical attention.

Symptoms of OVEREXPOSURE: Early signs may include headache, blurred vision and pin point pupils. In addition a large single exposure may also cause excessive saliva, breathing difficulty, uncontrolled vomiting and/or heaving(convulsions). Long-term exposure to low levels of the material is not known to cause ill effects in humans.

Note to physician: The active ingredient in this product is a cholinesterase inhibitor Atropine is antidotal and should be given I.V. in multiple doses of atropine sulfate i.v. until patient is atropinized. 2-PAM may be given in severe cases provided therapy begins within 24 hours of exposure. Narcotics and other sedatives are contraindicated..

Toxicology: Acute toxicity and irritation information is given for 87% technical diazinon.

Acute Oral LD50 (rats) 1250 mg/kg; Acute dermal LD50(rabbits) 2020 mg/kg. Inhalation LC50 (Rat) > 5.4 mg/l air 4 hour

Eye contact: Minimally irritating (Rabbit) Skin contact: slightly irritating (Rabbit) Skin sensitization: Not a sensitizer (Guinea Pig) Carcinogenicity: no components listed NTP-IARC-OSHA

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VI Reactivity

Stability: Stable at ambient temperatures.

Conditions to Avoid: Moisture and high temperatures.

Materials to Avoid: Acids, alkalis, and moisture.

Hazardous Decomposition Products: S-TEPP and Diazinon may result when exposed to small amounts of water. This will not occur when material is mixed with large amounts of water. High temperature decomposition may give toxic oxides of carbon, phosphorus, nitrogen and sulfur.

Hazardous Polymerization: Does not Occur.

VII SPILL OR LEAK

Steps To Be Taken If Spilled: Contain and sweep up spilled material. Keep dust to minimum during clean up. Follow precautions given in section IX. Wash spill area with water and detergent. A spill of 20 lbs or more of this material is reportable the National Response Center. (800-424-8802)

Waste Disposal: Spilled product that can not be used according to labeled instruction must be disposed according to applicable local, State, and Federal procedures.

VIII SPECIAL PROTECTION

Respiratory: Type/Conditions. Avoid breathing dust. Under dusty conditions wear a NIOSH approved respirator with pesticide cartridge.

Ventilation: General. Handle with good ventilation. Handle to produce a minimum of dust. Do not exceed indicated TLV.

Gloves: Rubber gloves when contact with hands is frequent and/or extended. Wash gloves inside and out with soap and water after each use.

Eye Protection: Safety glasses. Other protective equipment: Clean, freshly laundered, body covering, work clothing. Do not wear contaminated clothing. Launder separately.

IX SPECIAL PRECAUTIONS

Handling Precautions: Avoid skin contact. Avoid breathing dust. Wash thoroughly after handling.

Storing Precautions: Store in cool, well ventilated, dry place. Do not store with feed or food. Do not place damaged or leaking containers in inventory.

Other Precautions: Do not contaminate any body of water. KEEP OUT OF REACH OF CHILDREN.

X SHIPPING AND SELECTED REGULATIONS

DOT (Domestic) 1 LB and 10 lb bags not regulated: Freight NMFC Insecticides O/T poison 102120

12 x 4 lb cases RQ (DIAZINON) Consumer Commodity ORM-D

20 and 40 lb bags RQ Environmentally Hazardous Substance, solid, NOS (Diazinon) 9 UN 3077

SARA Title III 311/312 Acute Health Hazard Chronic Health Hazard

CERCLA Reportable Quantity: RQ Diazinon CAS# 333-41-5, 1 lb Product 20 lb

This information relates solely to the designated product and is not inclusive for combinations with other materials. This information is given without warranty or representation. Information is based on data we believe to be correct as of the date hereof. This information is furnished solely for your consideration, investigation, and verification. Before using any product READ THE LABEL.

Ref: Novartis MSS 4/9/97

29 CFR 1910.101 40 CFR part 355 1995

40 CFR part 302.4 1995

49 CFR parts 171-173 1997