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## Material Safety Data Sheet

U.S. Department of Labor (OSHA 29 CFR 1910.1200)

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### Section I: Product Identification

**Product: 655-556 Prentox<sup>(R)</sup> Diazinon 5G**

**Manufacturer's Name: Prentiss Incorporated**

**C. B. 2000**

**Floral Park, NY 11001**

**Telephone Number: (516) 326-1919**

**Date Prepared: December 16, 1994.**

**Supersedes: May 5, 1994.**

**Reason: Revision of section II.**

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### Section II: Hazardous Ingredients/Identity Information

<b>Hazardous Components:</b>	<b>OSHA</b>	<b>ACGIH</b>	<b>%</b>
	<b>PEL</b>	<b>TLV</b>	
Diazinon (CAS # 333-41-5) (< >) ( <i>O,O</i> -diethyl- <i>O</i> -(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate) (Skin)	0.1 mg/M <sup>3</sup>	0.1 mg/M <sup>3</sup>	5.0
Nuisance dusts	15 mg/M <sup>3</sup>	10 mg/M <sup>3</sup> (Total dust)	

**This product contains a toxic chemical or chemicals (< >) subject to the reporting requirements of Section 313 of Title III and of 40 CFR 372. Any copies or redistribution of this MSDS must include this notice.**

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### Section III: Physical/Chemical Characteristics

**Boiling Point: N/D**

**Specific Gravity (H<sub>2</sub>O = 1): N/A**

**Vapor Pressure (mmHg): N/A**

N/D

**Vapor Density (Air = 1):**

**Evaporation Rate (Butyl Acetate = 1):** N/A

N/A

**Appearance and Odor:**

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#### **Section IV: Fire and Explosion Hazard Data**

**Flash Point (Method Used):**

**Flammable Limits: LEL:** N/A      N/A

**NFPA Hazard Ratings: Health:**    **Flammability:** 0                      0

**Extinguishing Media:**    2, Foam, Dry Chemical.

**Special Fire Fighting Procedures:** Fight fire from upwind position. Do not inhale smoke. Wear full protective clothing and fumes, or products of combustion. Prevent use of contaminated buildings, area and equipment until decontaminated. This product is highly toxic to fish, birds and other wildlife, prevent spread of contaminated runoff.

Thermal decomposition products include, but are not limited to, hydrogen cyanide, various aliphatic organophosphates, and substituted pyrimidines. This product does not represent a dust explosion hazard

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#### **Section V: Reactivity Data**

**Stability:**

**Conditions to avoid:** None known.

**Hazardous Decomposition or Byproducts:** An impurity of toxicological concern, thionotetraethyl-pyrophosphate (O,S- occur when diazinon is mixed with a large amount of water.

**Hazardous Polymerization:**

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**Section VI: Health Hazard Data****Routes of Exposure:****Inhalation:** Yes.**Skin:** Yes.**Ingestion:** Yes.

**Health Hazards (Acute and Chronic):** Long term studies with experimental animals, conducted by Ciba-Geigy and the National Cancer Institute, have shown that diazinon is not oncogenic or carcinogenic. In other studies, diazinon did not affect the reproductive capabilities of rats over two generations, was not teratogenic in rats or rabbits, and did not cause delayed neurotoxicity. Numerous mutagenicity studies, using fully recognized and validated assay systems, have shown that diazinon is not mutagenic. No long term effects, other than symptoms associated with anti-cholinergic activity at high dose levels, occurred in any of the studies conducted with diazinon. A carrier in Diazinon 5G is reported by the manufacturers to be a nuisance dust. Prolonged breathing of excessive dust may affect lung function.

**Carcinogenicity:****NTP:** No.**IARC Monographs:** No.**OSHA Regulated:** No.**Signs and Symptoms of Overexposure:** Symptoms of cholinesterase inhibition can include

headache, dizziness, blurred vision, weakness, nausea, cramps, diarrhea, discomfort in the chest, nervousness, sweating, miosis (pinpoint pupils), tearing, salivation, pulmonary edema, uncontrollable muscle twitches, convulsions, coma and loss of reflexes and sphincter control. If swallowed and aspirated into lungs, aspiration pneumonia may occur. May cause eye and skin irritation.

**Medical Conditions Generally Aggravated by Exposure:** Exposure to cholinesterase inhibitors should be restricted in persons with hemolytic anemias or pre-existing cholinesterase depression. Persons with pre-existing respiratory disorders should use extra care in handling this product.

**Emergency and First Aid Procedures:** If poisoning is suspected, immediately contact a physician, the nearest hospital, or the nearest Poison Control Center. Tell the person contacted the complete product name, and the type and amount of exposure. Describe any symptoms and follow the advice given.

**If swallowed:** If victim is fully conscious, immediately give 1 or 2 glasses of water and induce vomiting. Repeat until vomit

fluid is clear. Never give anything by mouth to an unconscious person. Avoid contact with contaminated skin or clothing - wear rubber gloves. Apply artificial respiration if necessary, preferably by mechanical means - avoid mouth-to-mouth resuscitation.

**If inhaled:** Move victim from contaminated area to fresh air. Apply artificial respiration if necessary.

**If on skin:** Wash with plenty of soap and water, including hair and under fingernails. Do not apply any medicating agents except on the advice of a physician. Remove contaminated clothing and wash before reuse.

**If in eyes:** Immediately rinse eyes with a large amount of water. Hold eyelids apart to rinse the entire surface of the eye and lids. Do not apply any medicating agents except on the advice of a physician.

**Note to physician:** Diazinon is an organophosphate (cholinesterase inhibiting) insecticide. Atropine is antidotal for organophosphate poisoning and should be given i.v. in multiple doses as necessary until the patient is atropinized. 2-PAM may also be given provided therapy begins within 24 hours of exposure. Monitor serum and RBC cholinesterase. Morphine, theophylline, aminophylline, phenothiazines, reserpine, furosemide or ethacrynic acid are contraindicated in organophosphate poisonings. Administer i.v. fluids cautiously if needed to correct dehydration. Based on the acute oral LD<sub>50</sub> in rats, ingestion of a fatal dose by an adult human is unlikely to occur.

#### **Acute Toxicity/Irritation Studies:**

Ingestion: practically nontoxic

Oral LD<sub>50</sub> (Rat) = 9,500 mg/kg body weight

Dermal absorption: practically nontoxic

Dermal LD<sub>50</sub> (Rabbit) = >10,200 mg/kg body weight

Inhalation: slightly toxic

Inhalation LC<sub>50</sub> (Rat) = >3.0\* mg/l air - 4 hours

Eye contact: moderately irritating (Rabbit)

Skin contact: minimally irritating (Rabbit)

Skin sensitization: not a sensitizer\* (Guinea Pig)

\*Tests conducted with a 50% diazinon formulation.

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## **Section VII: Precautions for Safe Handling and Use**

**Steps to be taken in case material is released or spilled:** Wear chemical goggles, rubber gloves, rubber boots, long-sleeved shirt, long pants, hat and a NIOSH-approved pesticide respirator with a dust prefilter. For small spills, sweep up, keeping dust to a minimum, and place in an approved chemical container. Wash the spill area with water containing a strong detergent, absorb with pet litter or other absorbent material, sweep up and place into a chemical container. Seal container and handle in an approved manner. Flush the spill area with water to remove any residue. Do not allow wash water to contaminate water supplies.

**Waste disposal method:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**Container Disposal:** Do not reuse empty container. Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill, or by incineration, or, if allowed by State and local authorities by burning. If burned, stay out of smoke.

**Precautions for handling and storage:** May be fatal if swallowed. May be absorbed through skin. Do not breathe dust or spray mist. Avoid contact with eyes, skin or clothing. Wash thoroughly after handling and before eating or smoking. Keep out of reach of domestic animals. Do not use on humans or pets. Do not contaminate ornamental fish ponds. Do not permit children or pets to go onto sprayed grass until spray has completely dried.

**Other precautions:** Periodically inspect stored materials.

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## **Section VIII: Control Measures**

**Respiratory protection:** To avoid breathing dust, wear a NIOSH-approved pesticide respirator with a dust prefilter.

**Ventilation:**

**Local Exhaust:** As required to meet TLV.

**Special:** Not applicable.

**Mechanical:** As required to meet TLV.

**Other:** Not applicable.

**Protective Gloves:** To prevent skin contact, wear rubber gloves.

**Eye Protection:** To avoid eye contact, wear chemical safety glasses or goggles.

**Other protective clothing or equipment:** Wear rubber boots, long-sleeved shirt, long pants and a hat. Discard heavily contaminated articles which cannot be washed, such as leather shoes.

**Work/Hygienic practices:** Avoid contamination of food and feed. Store in a well-ventilated, secure storage area, out of the reach of children and domestic animals. Do not store food, beverages, or tobacco products in the storage area. Prevent eating, drinking, tobacco usage, and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly after handling and before eating or smoking.

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**The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.**

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