

MATERIAL SAFETY DATA SHEET

DIAZINON AG600 WBC INSECTICIDE

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC - DAY OR NIGHT 1-800-424-9300

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

FORMULATED FOR:

Platte Chemical Company
P.O. Box 667 • Greeley, CO 80632-0667

24-Hour Emergency Phone: 1-800-888-8372
Medical Emergencies: 1-800-301-7976

PRODUCT NAME: DIAZINON AG600 WBC INSECTICIDE
CHEMICAL NAME: Diazinon; O-O-Diethyl O- (2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate
CHEMICAL FAMILY: Organophosphate insecticide
EPA REG. NO.: 100-784-34704

MSDS Number: 100784-03 **MSDS Revisions:** Sec. 1, 3, 4, 15 and 16 **Date Of Issue:** 06/24/03 **Supersedes:** 05/19/00

2. COMPOSITION, INFORMATION ON INGREDIENTS

<u>Chemical Ingredients:</u>	<u>Percentage by Weight:</u>	<u>CAS No.</u>
Diazinon	56.00	333-41-5
Inert Ingredients	44.00	Mixture

3. HAZARDS IDENTIFICATION SUMMARY

CAUTION: KEEP OUT OF REACH OF CHILDREN

This product is an off-white liquid with slight sulfur-like odor. Primary routes of entry are Inhalation, eye contact and skin contact.

Warning Statements:

NOTE TO PHYSICIAN: This product is an organophosphate (cholinesterase-inhibiting) insecticide. Atropine is antidotal and should be given in multiple doses as necessary until the patient is atropinized. In severe cases 2-PAM may be given provide therapy begins within 24 hours of exposure. Monitor serum and RBC cholinesterase. Morphine, theophylline, aminophylline, phenothiazines, reserpine, furosemide, or ethacrynic acid are contraindicated in organophosphates poisonings. Administer intravenous fluids cautiously, if needed, to correct dehydration. Symptoms of cholinesterase inhibition include headache, dizziness, blurred vision, weakness, nausea, cramps, diarrhea, discomfort in the chest, nervousness, sweating, miosis, tearing salivation, pulmonary edema, uncontrollable twitches, convulsions, coma, and loss of reflexes and sphincter control.

4. FIRST AID MEASURES

Eyes: Flush eyes with large amount of water for at least 15 minutes. Hold eyelids apart to rinse the entire surface of the eyes and lids. Consult a physician if irritation persists.

Skin: Remove all contaminated clothing. Wash skin, hair, and fingernails thoroughly with soap and water. If irritation persists seek medical attention. Wash clothing before reuse.

Ingestion: If swallowed, give 2 glasses of water to drink. Do not induce vomiting or give anything by mouth to an unconscious person. Call a physician to get medical attention; the emergency telephone number is 1-800-301-7976

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped. If breathing is difficult, give oxygen. Get medical attention immediately.

5. FIRE FIGHTING MEASURES

FLASH POINT (° F/Test Method): 220°F/104.5°C (PMCC)

FLAMMABLE LIMITS (LEL & UEL): None established

EXTINGUISHING MEDIA: Considered combustible, use medium appropriate to surrounding fire. Dry chemical, carbon dioxide, foam, water spray or fog.

HAZARDOUS COMBUSTION PRODUCTS: Thermal decomposition products include, but are not limited to, various aliphatic organophosphates, substituted pyrimidines, and hydrogen cyanide.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus with full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Wear chemical safety goggles with side shields or chemical goggles, rubber gloves, rubber boots, long-sleeved shirt, long pants, head covering, and a NIOSH-approved pesticide respirator or air-supplied respirator. For small spills, cover with an absorbent material such as pet litter. Sweep up and transfer to approved containers. Check local, state and federal regulations for proper disposal. Wash the spill area with water containing a strong detergent, absorb with pet litter or other absorbent material, sweep up and place in approved containers. Seal the container and handle in an approved manner. Flush the area with water to remove any residue.

CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

7. HANDLING AND STORAGE

HANDLING: Safety glasses with side shields or goggles and rubber gloves should be worn when handling product. Always wash thoroughly after handling.

STORAGE: Store in a well-ventilated area place away from children, feed and food products, fertilizer and seed. Store in original container, tightly closed. Do not contaminate water supplies by handling and storage of product.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Not normally required.
RESPIRATORY PROTECTION: Not normally required, if vapors or mists exceed acceptable levels, wear a NIOSH approved respirator with either P-100 or P-95 filters or air-supplied respirator.
EYE PROTECTION: Chemical goggles or shielded safety glasses.
SKIN PROTECTION: Wear protective clothing: long-sleeved shirts and pants, hat, rubber boots with socks. Wear rubber or chemical-resistant gloves.

	OSHA PEL 8 hr TWA	ACGIH TLV-TWA
Diazinon	not listed	0.1 mg/m ³

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Off-white liquid with slight sulfur-like odor. **SOLUBILITY:** Slight
SPECIFIC GRAVITY (Water= 1): 1.07 g/ml **BULK DENSITY:** 8.93 lbs/gal. **pH:** 7-8 (1% solution)
VAPOR PRESSURE: 1.20E-02 Pa @ 25°C **BOILING POINT:** Not established
PERCENT VOLATILE (by volume): Not established **EVAPORATION RATE:** Not established
Note: These physical data are typical values based on material tested but may vary from sample to sample.
Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

10. STABILITY AND REACTIVITY

STABILITY: Stable **CONDITIONS TO AVOID:** None known other than excessive heat.
INCOMPATIBILITY: None known.
HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition – aliphatic organophosphates, substituted pyrimidines, and hydrogen cyanide.
HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Oral LD₅₀ (rat): 1600 mg/kg **Acute Dermal LD₅₀ (rabbit):** > 2020 mg/kg
Eye Irritation (rabbit): Minimal irritation **Skin Irritation (rabbit):** Non-irritating
Inhalation LC₅₀ (rat): >2.5 mg/L (4 hr). **Ingestion:** May cause stomach distress, nausea or vomiting.
Carcinogenic Potential: None listed in OSHA, NTP, IARC or ACGIH

12. ECOLOGICAL INFORMATION

Summary of Effects

Diazinon is highly toxic to birds, fish, and other wildlife. Avoid exposure to waterfowl. Highly toxic to bees exposed to direct treatment or to residues on blooming crops or weeds. Do not apply this product where fish, shrimp, crab, and other aquatic wildlife are important resources.

Eco-Acute Toxicity

	96 HR LC ₅₀		48 HR LC ₅₀
Rainbow Trout	1.8 mg A.I./L	Daphnia Magna	0.0011 mg A.I./L
Bluegill Sunfish	0.21 mg A.I./L		

Bobwhite Oral LD₅₀: 5.2 mg/kg
Mallard Oral LD₅₀: 1.44 mg/kg
Bobwhite 8-day Dietary LC₅₀: 235 ppm
Mallard 8-day Dietary LC₅₀: 33 ppm A.I.

Eco-Chronic Toxicity
Diazinon: Fish (Fathead minnow) Early Life Stage MATC >0.092 and <0.17 mg/L
Invertebrate (Daphnia Magna) Life Cycle MATC >0.00017 and <0.00032 mg/L
Mallard Reproduction NOEC 10 ppm (ChE inhibition <5 ppm)
Bobwhite Reproduction NOEC 40 ppm (ChE inhibition < 10 ppm)

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, state and federal regulations.
Plastic Jugs: Triple rinse (or equivalent), then offer for recycling at an ACRC site or by reconditioning, or puncture and dispose of in a sanitary landfill or by other procedures approved by local, state and federal regulations.

14. TRANSPORT INFORMATION

DOT Shipping Description: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, UN3082, III (DIAZINON) MARINE POLLUTANT RQ ERG GUIDE 171
U.S. Surface Freight Classification: INSECTICIDES, INSECT REPELLENTS, NOI, OTHER THAN POISON (NMFC 102120, CLASS: 60)
Consult appropriate ICAO/IATA and IMDG regulations for shipment requirements in the Air and Maritime shipping modes.

15. REGULATORY INFORMATION

NFPA & HMIS Hazard Ratings:

NFPA		HMIS	
1	Health	0	Least
1	Flammability	1	Slight
0	Instability	2	Moderate
		3	High
		4	Severe
		1	Health
		1	Flammability
		0	Reactivity
		H	PPE

SARA Hazard Notification/Reporting

SARA Title III Hazard Category:

Immediate	<u>Y</u>	Fire	<u>N</u>	Sudden Release of Pressure	<u>N</u>
Delayed	<u>Y</u>	Reactive	<u>N</u>		

Reportable Quantity (RQ) under U.S. CERCLA: Diazinon (CAS: 333-41-5): 1 pound

SARA, Title III, Section 313: Diazinon (CAS: 333-41-5) 56%

RCRA Waste Code: Not listed

CA Proposition 65: Not listed.

16. OTHER

MSDS STATUS: Sec. 1, 3, 4, 15 and 16

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental/ Regulatory Services

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