

Material Safety Data Sheet

Effective Date: 05-JUN-2000  
Product: DIAZINON\* AG500 INSECTICIDE

I. IDENTIFICATION

Chemical Name: DIAZINON  
Chemical Family: ORGANOPHOSPHATE PESTICIDES  
Formula: C12H21N2O3PS  
Synonyms: NONE  
CAS Number: SEE INGREDIENT STATEMENT, SECTION III.  
EPA Number: 5905-248

II. PHYSICAL DATA

Boiling Point: >150 DEGREES C.  
Freezing Point: <10 DEGREES F.  
Spec Gravity: .9980 GMS/CC  
Vapor Pressure: 10 MM HG  
Vapor Density: 3.66  
Solubility: 0.01%  
Volatiles: 10%  
Evaporation: NOT ESTABLISHED  
Melting Point: NOT APPLICABLE  
Appearance: YELLOW/BROWN LIQUID, WITH SOLVENT ODOR.

III. INGREDIENTS

Material	CAS Number	Percent	TLV	Hazard
DIAZINON	00333-41-5	48.50	0.1 MG/M3	MODERATELY TOXIC
AROMATIC PETROLEUM DISTILLATES	64742-95-6	48.50	100 PPM (SKIN)	SKIN & EYE IRRITANT
INERT INGREDIENTS (TRIMETHYLBENZENE - 13.20%; XYLENE - 1.24%; CUMENE - 0.62%; ETHYLBENZENE - 0.21%)		3.00	N/A	NONHAZARDOUS

IV. FIRE AND EXPLOSION HAZARD

Flash Point: 105 DEGREES F. (TCC)  
Autoignition Temp: >842 DEG F.  
Flammable Limit: LOWER -1, UPPER -7  
Extinguishing Media: DRY CHEMICAL, FOAM, OR CARBON DIOXIDE  
EXTINGUISHING MEDIA.  
Special Fire Fight Proc: WEAR SELF-CONTAINED BREATHING APPARATUS AND  
FULL FIRE FIGHTING CLOTHING. USE AS LITTLE  
WATER AS POSSIBLE. DIKE AREA TO PREVENT

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PESTICIDE RUNOFF. USE SPRAY OR FOG. CONDUCT  
FIRE FIGHTING UPWIND.

Fire and Expl Hazard: ALERT MEDICAL PERSONNEL TO BE READY TO TREAT  
FOR PESTICIDE POISONING, SHOULD TREATMENT BE  
NECESSARY.

V. HEALTH HAZARD

Carcinogen Information: NONE CURRENTLY LISTED.

ACUTE EFFECTS OF OVER EXPOSURE

Swallowing: SLIGHTLY TOXIC; THE ACUTE ORAL LD50 (RAT) =  
2,040 MG/KG.

Skin Absorption: SLIGHTLY TOXIC; THE ACUTE DERMAL LD50 (RABBIT)  
= >2,020 MG/KG.

Inhalation: SLIGHTLY TOXIC; ACUTE INHALATION LC50 (RAT) =  
> 2.16 MG/L AIR.

Skin contact: MAY CAUSE SKIN IRRITATION.

Eye Contact: MAY CAUSE EYE IRRITATION.

Chronic Effects: CHOLINESTERASE INHIBITION, OVEREXPOSURE MAY  
CAUSE ACUTE EFFECTS.

Other Hazard: NONE CURRENTLY KNOWN.

EMERGENCY AND FIRST AID PROCEDURES

Swallowing: DO NOT INDUCE VOMITING. OBTAIN MEDICAL  
ATTENTION IMMEDIATELY. GIVE OXYGEN IF PERSON  
HAS DIFFICULTY BREATHING. GIVE ARTIFICIAL  
RESPIRATION IF PERSON IS NOT BREATHING.

Skin: REMOVE CONTAMINATED CLOTHING AT ONCE. WASH SKIN  
THOROUGHLY WITH SOAP AND WATER. OBTAIN MEDICAL  
ATTENTION IMMEDIATELY.

Inhalation: REMOVE PERSON FROM EXPOSURE. GIVE OXYGEN IF  
THERE IS DIFFICULTY IN BREATHING. OBTAIN  
MEDICAL ATTENTION IMMEDIATELY.

Eyes: FLUSH EYES WITH WATER FOR 15 MINUTES, HOLDING  
EYELIDS OPEN. IF IRRITATION DEVELOPS, OBTAIN  
MEDICAL ATTENTION IMMEDIATELY.

Notes to Physician: DIAZINON IS AN ORGANOPHOSPHATE (CHOLINESTERASE  
INHIBITING) INSECTICIDE. INDUCTION OF EMESIS  
IS NOT RECOMMENDED DUE TO THE LARGE AMOUNT OF  
PETROLEUM SOLVENT IN THIS PRODUCT WHICH COULD  
CAUSE CHEMICAL PNEUMONITIS IF ASPIRATED. CHECK  
FOR POSSIBLE MUCOSAL DAMAGE BEFORE BEGINNING  
GASTRIC LAVAGE, TAKING CARE TO PREVENT  
ASPIRATION. IF INHALED, OBSERVE FOR DELAYED  
ONSET OF PULMONARY EDEMA. ATROPINE IS

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ANTIDOTAL FOR ORGANOPHOSPHATE POISONING AND SHOULD BE GIVEN INTRAVENOUSLY IN MULTIPLE DOSES AS NECESSARY UNTIL THE PATIENT IS ATROPINIZED. 2-PAM MAY ALSO BE GIVEN IN SEVERE CASES OF POISONING, PROVIDED THERAPY BEGINS WITHIN 24 HOURS OF EXPOSURE. MONITOR SERUM AND RBC CHOLINESTERASE. MORPHINE, AMINOPHYLLINE, THEOPHYLLINE, PHENOTHIAZINES, RESERPINE, FUROSEMIDE, AND ETHACRYNIC ACID ARE CONTRAINDICATED IN POISONING BY ORGANOPHOSPHATES. ADMINISTER I.V. FLUID CAUTIOUSLY IF NECESSARY TO CORRECT DEHYDRATION. BASED ON THE ACUTE ORAL LD50 IN RATS, INGESTION OF 2 OUNCES OR MORE MAY BE FATAL TO AN ADULT HUMAN.  
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VI. REACTIVITY

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Stability: Stable  
Conditions to Avoid: FLAME, HEAT, IGNITION SOURCES, AND STRONG OXIDIZERS.  
Polymerization: Will Not Occur  
Conditions to Avoid: NONE CURRENTLY KNOWN  
Incompatibility material: AVOID CONTAMINATION WITH WATER, ALKALIES, ACIDS, AND STRONG OXIDIZERS.  
Hazardous Combustion: PRODUCT MAY PRODUCE CARBON DIOXIDE AND CARBON MONOXIDE UNDER FIRE CONDITIONS.  
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VI. SPILL OR LEAK PROCEDURES

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Spill or Leak Proc: ABSORB IN CLAY OR SAWDUST. SWEEP UP AND PLACE IN WASTE DISPOSAL CONTAINER. TREAT CONTAMINATED AREA WITH FULL STRENGTH LIQUID CHLORINE BLEACH. LET STAND FOR 15 MINUTES, AND REPEAT PROCEDURE. FLUSH AREA WITH WATER.  
Waste Disposal Method: THIS MATERIAL MUST BE DISPOSED OF ACCORDING TO FEDERAL, STATE, OR LOCAL PROCEDURES UNDER THE RESOURCE CONSERVATION AND RECOVERY ACT.  
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VIII. SPECIAL PROTECTION INFORMATION

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Respiration: USE ONLY NIOSH/MSHA CARTRIDGE TYPE RESPIRATOR APPROVED FOR ORGANOPHOSPHATE PESTICIDE VAPORS.  
Ventilation: MECHANICAL (GENERAL) SPARK PROOF.  
Gloves: IMPERVIOUS  
Eyes: CHEMICAL SPLASH GOGGLES.  
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Other: EMERGENCY SHOWER, EYE WASH STATION, IMPERVIOUS  
APRON AND FOOTWEAR.

IX. SPECIAL PRECAUTIONS

Special precaution: KEEP OUT OF REACH OF CHILDREN. DO NOT STORE  
WITH FOOD, FEED, OR OTHER MATERIAL TO BE USED  
OR CONSUMED BY HUMANS OR ANIMALS. DO NOT  
CONTAMINATE WATER SUPPLIES, LAKES, STREAMS, OR  
PONDS. STORE IN A SECURE, DRY, WELL-VENTILATED  
AREA, SEGREGATED FROM OXIDIZERS AND  
INCOMPATIBLE MATERIALS. AVOID HIGH TEMPERATURES  
AND PROTECT FROM MOISTURE.

Other precaution: A) RCRA HAZARDOUS WASTE NUMBERS: D001, U055,  
U239  
B) SARA TITLE III, SECTION 313: DIAZINON  
48%/XYLENE 1.24%  
C) SARA THRESHOLD PLANNING QUANTITY: NOT LISTED  
D) CERCLA REPORTABLE QUANTITY: 1 QT.  
E) 49 CFR 172.101, APPENDIX A: HAZARDOUS  
SUBSTANCE  
F) 49 CFR 172.101, APPENDIX B: MARINE POLLUTANT

X. SHIPPING INFORMATION

Shipping name: RQ, ORGANOPHOSPHORUS PESTICIDES, LIQUID, TOXIC,  
FLAMMABLE, (DIAZINON), 6.1, (3), UN3017, PG III  
"ERG # 131"

Hazard Class: KEEP FROM FOOD (6)  
Identification No: UN 3017

Labels Required: KEEP FROM FOOD (6)

Placarding: KEEP FROM FOOD (6)

Freight Class: INSECTICIDES, AGRICULTURAL, LIQUID, NOIBN(NMFC  
ITEM 102120, CLASS 60)

Chemical Name	Equivalent R.Q.
DIAZINON	1 LB/(0.454 KG)

XI. GENERAL PRODUCT INFORMATION

National Fire Protection Association Rating:  
(Rating level: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

Health: 2                      Fire: 2                      Reactivity: 0

Helena Chemical Company  
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S.A.R.A. Title III Hazard Classification: (Yes/No)

Immediate (Acute) Health: Y	Delayed (Chronic) Health: Y
Sudden Release of pressure: N	Fire: Y
Reactive: N	

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Mail inquiries to: 225 Schilling Blvd., Suite 300 Collierville, TN 38017  
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