

Material Safety Data Sheet

Effective Date: 08-APR-2008
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

Material Safety Data Sheet

Effective Date: 08-APR-2008

Product: DIAZINON* AG500 INSECTICIDE

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

Material Safety Data Sheet

Effective Date: 08-APR-2008

Product: DIAZINON* AG500 INSECTICIDE

ONSET OF PULMONARY EDEMA. ATROPINE IS 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.

VI. REACTIVITY

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.

VII. SPILL OR LEAK PROCEDURES

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.

VIII. SPECIAL PROTECTION INFORMATION

Respiration: USE ONLY NIOSH/MSHA CARTRIDGE TYPE RESPIRATOR APPROVED FOR ORGANOPHOSPHATE PESTICIDE VAPORS.
Ventilation: MECHANICAL (GENERAL) SPARK PROOF.

Helena Chemical Company
PH: 901-761-0050
CHEMTREC: 800-424-9300

08-APR-2008 08:59:33
Page 4 Of 5

Material Safety Data Sheet

Effective Date: 08-APR-2008
Product: DIAZINON* AG500 INSECTICIDE

Gloves: IMPERVIOUS
Eyes: CHEMICAL SPLASH GOGGLES.
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: POISON (6)
Identification No: UN 3017
Labels Required: POISON (6); FLAMMABLE (3)
Placarding: POISON (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

Helena Chemical Company
PH: 901-761-0050
CHEMTREC: 800-424-9300

08-APR-2008 08:59:33
Page 5 Of 5

Material Safety Data Sheet

Effective Date: 08-APR-2008

Product: DIAZINON* AG500 INSECTICIDE

National Fire Protection Association Rating:

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

Health: 2

Fire: 2

Reactivity: 0

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

Mail inquiries to: 225 Schilling Blvd., Suite 300 Collierville, TN 38017
Helena Chemical Company believes that the data contained herein is factual.
This data is not to be taken as a warranty or representation of legal
responsibility. It is offered solely for your consideration, investigation
and verification.