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 MANUFACTURER / EMERGENCY INFORMATION  
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HELENA CHEMICAL COMPANY  
 6075 POPLAR, SUITE 500  
 MEMPHIS, TN 38119

EMERGENCY TELEPHONE NUMBER:  
 1. (901) 761-0050  
 2. CHEMTREC (800) 424-9300

EFFECTIVE DATE: 06/05/96  
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I. IDENTIFICATION  
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CHEMICAL NAME	DIAZINON
CHEMICAL FAMILY	ORGANOPHOSPHATE PESTICIDES
FORMULA	C12H21N2O3PS
SYNONYMS	NONE
CAS NUMBER	SEE INGREDIENT STATEMENT, SECTION III.
EPA REGISTRY NO.	5905-248

II. PHYSICAL DATA  
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BOILING POINT	>150 DEGREES C.
FREEZING POINT	<10 DEGREES F.
SPECIFIC GRAVITY	.9980 GMS/CC
VAPOR PRESSURE	10 MM HG
VAPOR DENSITY	3.66
SOLUBILITY IN WATER	.006%
PER CENT VOLATILES	10%
EVAPORATION RATE	NOT ESTABLISHED
MELTING POINT	NOT APPLICABLE
APPEARANCE & ODOR	YELLOW/BROWN LIQUID, WITH SOLVENT ODOR.

III. INGREDIENTS  
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.....MATERIAL.....	....%	...TLV(UNITS)..	....HAZARD.....
DIAZINON----- CAS #00333-41-5	48.50	0.1 MG/M3	MODERATELY TOXIC
AROMATIC PETROLEUM			
DISTILLATES --- CAS #64742-95-6	48.50	100 PPM (SKIN)	EYE & SKIN IRRITANT
INERT INGREDIENTS -----	3.00	NOT APPLICABLE	NONHAZARDOUS
(TRIMETHYLBENZENE - 13.20%)			
(XYLENE ----- 1.24%)			
(CUMENE ----- .62%)			
(ETHYLBENZENE) ---- .21%)			

IV. FIRE AND EXPLOSION HAZARD DATA  
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FLASH POINT	:	105 DEGREES F. (TCC)
AUTOIGNITION TEMPERATURE:	:	>842 DEG F.
FLAMMABLE LIMITS	:	LOWER -1, UPPER -7

EXTINGUISHING MEDIA:

- DRY CHEMICAL, FOAM, OR CARBON DIOXIDE EXTINGUISHING MEDIA.

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SPECIAL FIRE FIGHTING PROCEDURES:

- WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL FIRE FIGHTING CLOTHING. USE AS LITTLE WATER AS POSSIBLE. DIKE AREA TO PREVENT PESTICIDE RUNOFF. USE SPRAY OR FOG. CONDUCT FIRE FIGHTING UPWIND.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

- ALERT MEDICAL PERSONNEL TO BE READY TO TREAT FOR PESTICIDE POISONING. SHOULD TREATMENT BE NECESSARY.

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V. HEALTH HAZARD  
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-CARCINOGENICITY INFORMATION: NONE CURRENTLY LISTED.

-ACUTE EFFECTS OF OVEREXPOSURE

SWALLOWING:

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

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SKIN ABSORPTION:

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

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INHALATION:

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

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SKIN CONTACT:

- MAY CAUSE SKIN IRRITATION.

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EYE CONTACT:

- MAY CAUSE EYE IRRITATION.

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CHRONIC EFFECTS:

- CHOLINESTERASE INHIBITION, OVER-EXPOSURE MAY CAUSE ACUTE EFFECTS.

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OTHER HEALTH HAZARD:

- NONE CURRENTLY KNOWN.

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-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 PNEUMONTIS 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 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 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 DATA

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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: AVOID CONTAMINATION WITH WATER, ALKALIES, ACIDS, AND  
MATERIALS STRONG OXIDIZERS.  
HAZARDOUS : PRODUCT MAY PRODUCE CARBON DIOXIDE AND CARBON MONOXIDE  
COMBUSTION UNDER FIRE CONDITIONS.

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#### VII. SPILL OR LEAK PROCEDURES

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STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED  
-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.  
OTHERS : EMERGENCY SHOWER, EYE WASH STATION, IMPERVIOUS APRON  
AND FOOTWEAR.

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IX. SPECIAL PRECAUTIONS  
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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

- 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.
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- STORE IN A SECURE, DRY, WELL-VENTILATED AREA, SEGREGATED FROM
- OXIDIZERS AND INCOMPATIBLE MATERIALS. AVOID HIGH TEMPERATURES AND
- PROTECT FROM MOISTURE.
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- DIAZINON\* IS A REGISTERED TRADEMARK OF CIBA-GEIGY CORPORATION.

OTHER PRECAUTIONS

- A) RCRA HAZARDOUS WASTE NUMBERS:---- D001, U055, U239
- B) SARA TITLE III, SECTION 313:----- 01/01/95 - 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

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X. SHIPPING INFORMATION  
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D.O.T. DATA - PROPER SHIPPING NAME:

- "RQ" ORGANOPHOSPHORUS PESTICIDES, LIQUID, TOXIC, FLAMMABLE,
- (DIAZINON), 6.1, (3), UN3017, PG III "ERG GUIDE #131"

HAZARD CLASS : KEEP FROM FOOD (6)  
IDENTIFICATION NO.: UN3017  
LABELS REQUIRED : KEEP FROM FOOD (6)  
PLACARDING : KEEP FROM FOOD (6)

FREIGHT CLASSIFICATION:

- INSECTICIDES, AGRICULTURAL, LIQUID, NOIBN
- (NMFC ITEM 102120, CLASS 60)

..CHEMICAL NAME ..... EQUIVALENT R.Q.  
DIAZINON 1 LB/(0.454 KG)

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XI. GENERAL PRODUCT INFORMATION  
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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

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DATA IS NOT TO BE TAKEN AS A WARRANTY OR REPRESENTATION OF LEGAL  
RESPONSIBILITY. IT IS OFFERED SOLELY FOR YOUR CONSIDERATION,  
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