



# Safety Data Sheet

Report Date 18-May-15

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## 1. Identification

**Product Name** : DIAZINON AG500  
**Synonyms** : None  
**Product Use** : Diazinon - organophosphate insecticide  
**Manufacturer/Supplier** : Helena Chemical Company  
**Address** : 225 Schilling Blvd. Collierville, TN 38017  
**General Information** : 901-761-0050  
**Transportation Emergency Number** : CHEMTREC:800-424-9300

## 2. Hazard Identification



**Signal Word** : Warning  
**Skin Irritation** : May cause skin irritation with prolonged or repeated contact.  
**Eye Irritation** : May cause eye irritation.  
**Acute Toxicity Oral** : Aspiration hazard. Do not induce vomiting unless told to by a poison control center or doctor.  
**Acute Toxicity Dermal** : LD50 >2,020 mg/kg (rabbit). May be harmful in contact with skin.  
**Hazard Categories** : Oral/Dermal/Inhalation Toxicity-5/5/4; Eye/Skin Irritation-2B/3; Skin Sensitization-1B; Flammable-3  
**Hazard Statement** : May be harmful if swallowed  
May be harmful in contact with skin  
Causes eye irritation  
Causes mild skin irritation  
Harmful if inhaled  
May cause an allergic skin reaction  
Flammable liquid and vapour

## 3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Diazinon	333-41-5	48.0
Xylene range aromatic solvent.	64742-95-6	48.0
Inert ingredients	Proprietary	4.0

## 4. First Aid Measures

**Eye** : Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.  
**Skin** : Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.  
**Inhalation** : Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.  
**Ingestion** : Call a poison control center or doctor immediately for treatment advice. Rinse mouth with water. Do not induce vomiting. Do not give anything by mouth if unconscious.



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**Indication of Immediate Medical Attention and Special Treatment Needed** : Product is an aspiration hazard. Do not induce vomiting unless told to do so by a poison control center or doctor. Atropine is antidotal for organophosphate poisoning.

### 5. Fire Fighting Measures

**Extinguishing Media** : Use dry chemical, foam or carbon dioxide extinguishing agents.  
**Specific Hazards Arising from the Chemical** : Forms flammable mixtures with air at temperatures above 106 Degrees F.  
**Special Fire Fight Proc** : Wear self-contained breathing apparatus and full protective clothing.

### 6. Accidental Release Measures

**Personal Precautions** : Keep unprotected and unnecessary personnel out of spill area. Keep flames, heat and ignition sources away from spill area. Avoid contact with spilled product.  
**Protective Equipment** : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Use NIOSH-approved respirator with organic vapor cartridge. Eyewash and emergency shower should be available in work area.  
**Emergency Procedures** : Dike spilled liquid to prevent spreading. Do not contaminate soil, water, drains or sewers.  
**Methods and Materials for Containment and Cleanup** : Absorb spilled liquid with clay or sawdust. Sweep up and place in waste disposal container. To decontaminate spill area, treat with full strength liquid chlorine bleach. Let stand for 15 minutes, absorb and collect. Repeat procedure as needed. Flush area with water, collect wash water with absorbent, then place in containers with material for disposal.

### 7. Handling and Storage

**Precautions for Safe Handling** : Keep locked up and out of reach of children. Do not contaminate water, food or feed by storage, handling or disposal. Keep container tightly closed. Do not allow water to be introduced into the contents of the container.  
**Conditions for Safe Storage** : Store in original container only. Do not store near heat or open flame. Do not store with oxidizing agents or ammonium nitrate.

### 8. Exposure Controls / Personal Protection

**TLV/PEL** : Diazinon TLV=0.1 mg/m<sup>3</sup>; Aromatic Petroleum Distillates TLV=100 ppm (skin)  
**Appropriate Engineering Controls** : Mechanical, spark proof ventilation.  
**Personal Protective Equipment** : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Use NIOSH-approved respirator with organic vapor cartridge. Eyewash and emergency shower should be available in work area.

### 9. Physical and Chemical Properties

**Odor/Appearance** : Yellow, brown liquid with solvent odor.  
**Flash Point, °F** : 105 Degrees F.  
**Boiling Point, °F** : >150 Degrees C.  
**Melting Point(Freezing point), °C** : No information found  
**Vapor Pressure, mm Hg @ 20 °C** : 10 mmHg  
**Vapor Density** : 3.66  
**Solubility in Water** : 0.01%



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**Molecular Formula** : Not applicable, formulated mixture.  
**Density, g/mL @ 25 °C** : 0.980-0.999  
**Evaporation Rate(Butyl Acetate = 1)** : Not established  
**Octanol/Water Partition Coefficient** : No information found  
**pH** : Not applicable, non-aqueous  
**Flammable Limits (approximate volume % in air)** : Lower = -1; Upper = -7  
**Auto-ignition Temperature** : >842 Degrees F.  
**Decomposition temperature** : No information found

### 10. Stability and Reactivity

**Reactivity** : No information found  
**Chemical Stability** : Stable  
**Hazardous Decomposition Products** : May produce carbon dioxide and carbon monoxide under fire conditions.  
**Hazardous Polymerization** : Will not occur  
**Conditions to Avoid** : Flame, heat, ignition sources and strong oxidizers.  
**Incompatible Materials** : Avoid contamination with water, alkalies, acids and strong oxidizers.

### 11. Toxicological Information

**Acute Toxicity (Oral LD50)** : 2,040 mg/kg (rat). May be harmful if swallowed.  
**Acute Toxicity (Dermal LD50)** : >2,020 mg/kg (rabbit). May be harmful in contact with skin.  
**Acute Toxicity Inhalation LC50** : >2.16 mg/L (rat). Harmful if inhaled.  
**Likely Routes of Exposure** : Ingestion, skin, eyes, inhalation.  
**Skin Irritation** : Causes mild skin irritation.  
**Eye Irritation** : Causes eye irritation.  
**Skin Sensitization** : May cause an allergic skin reaction.  
**Carcinogenic** : Not listed.  
**Chronic Effects** : Cholinesterase inhibitor.  
**Other Hazards** : No information found.

### 12. Ecological Information

**Ecotoxicity** : Severe Marine Pollutant per 49 CFR 172.101, Appendix B.  
**Persistence and Degradability** : No information found  
**Bioaccumulative Potential** : No information found  
**Mobility in Soil** : No information found  
**Other Adverse Effects** : No information found

### 13. Disposal Considerations

**Waste Disposal Method** : This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.

### 14. Transport Information

**UN Proper Shipping Name** : RQ, Organophosphorus Pesticide, Liquid, Toxic, Flammable, (Diazinon)



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**Transport Hazard Class** : Toxic (6.1)  
**UN Identification Number** : UN3017  
**Packaging Group** : PG III  
**Environmental Hazards** : Severe Marine Pollutant per 49 CFR 172.101, Appendix B.  
**Transport in Bulk** : No information found  
**Special Precautions for Transportation** : No information found  
**Freight Classification** : Pesticides, NOI, Insecticides, Poison (NMFC Item 155050, Sub 11, Class 70)

## 15. Regulatory Information

**National Fire Protection Association Rating** :

Health: 2      Fire: 2      Reactivity: 0  
Rating Level: (4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

**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

**FIFRA Information** : This Chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labelling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**EPA Registration Number** : 5905-248

**FIFRA Signal Word** : Caution

**FIFRA Label Statement** : Keep out of reach of children.

**FIFRA Label Statement** : Restricted Use Pesticide

**FIFRA Label Statement** : Harmful if swallowed, inhaled or absorbed through skin.

**FIFRA Label Statement** : Causes moderate eye injury.

**FIFRA Label Statement** : Avoid contact with eyes, skin or clothing.

**FIFRA Label Statement** : Avoid breathing vapor or spray mist.

**FIFRA Label Statement** : Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

## 16. Other Information

**Data of Preparation/Revision** : 18-May-2015