



MATERIAL SAFETY DATA SHEET

Syngenta Crop Protection, Inc
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Greensboro, NC 27419

In Case of Emergency, Call

1-800-888-8372

1. CHEMICAL IDENTIFICATION

Product Name: **EVICT INDOOR/OUTDOOR WBC INSECTICIDE** Product No.: A-8265 C
EPA Signal Word: Caution
Active Ingredient(%): Diazinon (56%) CAS No.: 333-41-5
Chemical Name: O,O-diethyl-O-(2-isopropyl-6-methyl-4-pyrimidinyl)-phosphorothioate
Chemical Class: Organophosphate Insecticide

2. COMPOSITION/INFORMATION ON INGREDIENTS

Material	OSHA PEL	ACGIH TLV	Other	NTP/IARC/OSHA Carcinogen
Diluent	Not Established	Not Established	Not Established	IARC, 3
Diazinon (56%)	0.1 mg/m ³ (Skin)	0.1 mg/m ³ (Skin)	Not Established	No

3. HAZARDS IDENTIFICATION

Symptoms of Acute Exposure

Symptoms of cholinesterase inhibition can include headache, dizziness, blurred vision, weakness, nausea, cramps, diarrhea, discomfort in the chest, nervousness, sweating, miosis (pinpoint pupils), tearing, salivation, pulmonary edema, uncontrollable muscle twitches, convulsions, coma, and loss of reflexes and sphincter control. Exposure can result in eye irritation.

Hazardous Decomposition Products

None Known

Physical Properties

Appearance: Off-White Liquid

Odor: Slight Sulfur Like

Unusual Fire, Explosion and Reactivity Hazards

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

4. FIRST AID MEASURES

If poisoning is suspected, immediately contact a physician, the nearest hospital, or the nearest Poison Control Center. Tell the person contacted the complete product name, and the type and amount of exposure. Describe any symptoms and follow the advice given.

Ingestion: If victim is fully conscious, immediately give a large quantity of water to drink and induce vomiting. Never give anything by mouth to an unconscious person.

- Eye Contact: Immediately rinse eyes with a large amount of running water. Hold eye lids apart to rinse the entire surface of the eyes and lids. Do not apply any medicating agents except on the advice of a physician.
- Skin Contact: Wash with plenty of soap and water, including hair and under fingernails. Do not apply any medicating agents except on the advice of a physician. Remove contaminated clothing and decontaminate prior to use.
- Inhalation: Move victim from contaminated area to fresh air. Apply artificial respiration if necessary, preferably by mechanical means. Avoid mouth-to-mouth resuscitation.

Notes to Physician

This product is an organophosphate (cholinesterase-inhibiting) insecticide. Atropine is antidotal and should be given i.v. in multiple doses as necessary until the patient is atropinized. In severe cases, 2-PAM may be given provided therapy begins within 24 hours of exposure.

Monitor serum and RBC cholinesterase. Morphine, theophylline, aminophylline, phenothiazines, reserpine, furosemide or ethacrynic acid are contraindicated in organophosphate poisonings. Administer i.v. fluids cautiously if needed to correct dehydration.

Medical Condition Likely to be Aggravated by Exposure

Exposure to cholinesterase inhibitors should be restricted in persons with hemolytic anemias or pre-existing depression of cholinesterase.

5. FIRE FIGHTING MEASURES

Fire and Explosion

- Flash Point (Test Method): >220 °F (Pensky-Martens CC)
- Flammable Limits (% in Air): Lower: %; Upper: % Not Available
- Autoignition Temperature: >500 °F
- Flammability: Not Applicable

Unusual Fire, Explosion and Reactivity Hazards

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

In Case of Fire

Use dry chemical, foam, or CO2 extinguishing media. Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak

Wear chemical safety glasses with side shields or chemical goggles, rubber gloves, rubber boots, long-sleeved shirt, long pants, head covering, and a NIOSH-approved chemical cartridge respirator with either P-100 or P-95 filters or use a self-contained breathing apparatus (SCBA). For small spills, cover with an absorbent material such as pet litter. Sweep up and place in an approved chemical container. Wash the spill area with water containing a strong detergent, absorb with pet litter or other absorbent material, sweep up and place in a chemical container. Seal the container and handle in an approved manner. Flush the area with water to remove any residue. Do not allow wash water to contaminate water supplies.

7. HANDLING AND STORAGE

Store the material in a well-ventilated, secure area out of the reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco usage, and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly after handling.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THE PRODUCT.

FOR COMMERCIAL APPLICATIONS AND ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

- Ingestion: Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly after handling.

Eye Contact: To avoid eye contact, wear safety glasses with side shields or chemical goggles.
Skin Contact: To avoid skin contact, wear rubber gloves, rubber boots, long-sleeved shirt, long pants and a head covering. Discard heavily contaminated articles that cannot be washed.
Inhalation: To avoid breathing vapor or mist, wear a NIOSH-approved chemical cartridge respirator with either P-100 or P-95 filters or use a supplied-air respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Off-White Liquid
Odor: Slight Sulfur Like
Melting Point: Not Applicable
Boiling Point: Not Available
Specific Gravity/Density: 1.07 g/cc
pH: 7-8(1% solution in H₂O @ 25°C)

Solubility in H₂O

Diazinon : 60.000 mg/L @ 20°C

Vapor Pressure

Diazinon : 1.20E-02 Pa @ 25°C

10. STABILITY AND REACTIVITY

Reactivity

Stability: Stable
Hazardous Polymerization: Will Not Occur
Conditions to Avoid: None Known

Hazardous Decomposition Products

None Known

11. TOXICOLOGICAL INFORMATION

Acute Toxicity/Irritation Studies

Ingestion: Slightly Toxic
Oral LD₅₀ (Rat) : 1,600 mg/kg body weight
Dermal: Slightly Toxic
Dermal LD₅₀ (Rabbit) : > 2,020 mg/kg body weight
Inhalation: Slightly Toxic
Inhalation LC₅₀ (Rat) : > 2.5 mg/l air - 4 hours
Eye Contact: Minimally Irritating (Rabbit)
Skin Contact: Non-Irritating (Rabbit)
Skin Sensitization: Not a Sensitizer (Guinea Pig)

Mutagenic Potential

Diazinon: None observed

Reproductive Hazard Potential

Diazinon: None observed

Chronic/Subchronic Toxicity Studies

Diazinon: Cholinesterase inhibition

Carcinogenic Potential

Diazinon: None observed

Other Toxicity Information

Not Available

Toxicity of Other Components

Diluent

Listed as an IARC (Group 3) carcinogen not classifiable as human carcinogen (No Data Available) with limited animal evidence. Dust may cause irritation to upper respiratory tract.

Target Organs

Active Ingredients

Diazinon : Central Nervous System

Inert Ingredients

Diluent : Respiratory Tract

12. ECOLOGICAL INFORMATION

Summary of Effects

Diazinon:

Highly toxic to birds and aquatic organisms. Avoid exposure to waterfowl.

Eco-Acute Toxicity

Diazinon:

Rainbow Trout 96-hour LC50 1.8 mg A.I./L
Bluegill Sunfish 96-hour LC50 0.21 mg A.I./L
Daphnia magna 48-hour LC50 0.0011 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 inhib. <5 ppm)
Bobwhite Reproduction NOEC 40 ppm (ChE inhib. <10 ppm)

Environmental Fate

Diazinon:

No data available for the formulation. The information presented here is for the active ingredient, diazinon. A thorough review of environmental information is not possible in this document. For additional information call the toll free number listed in Section 16.

ENVIRONMENTAL PERSISTENCE/MOBILITY:

Degrades rapidly in water, in the dark at pH 5 (t1/2 = 12 d), more slowly at pH 7 and 9 (t1/2 = 138 d and 77 d, resp.). Degrades more rapidly in the light, in soil (t1/2 = 2.5 d) than in water (t1/2 ~ 25 d @ pH 7). Degrades under aerobic and anerobic conditions (t1/2 ~ 31 to 34 days). Mobility varies from very high to slight depending on the soil type (Koc = 25 to 2300). Some bioaccumulation in fish (BCF = 500X, whole fish).

13. DISPOSAL CONSIDERATION

Disposal

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

Characteristic Waste: Not Applicable

Listed Waste: Not Applicable

14. TRANSPORT INFORMATION

DOT Classification:

Non-Bulk: RQ, Environmentally Hazardous Substance, Liquid, N.O.S. (Diazinon), 9, UN3082, PGIII

Bulk: RQ, Environmentally Hazardous Substance, Liquid, N.O.S. (Diazinon), 9, UN3082, PGIII, Marine Pollutant

B/L Freight Classification

Insecticides or Fungicides; Agricultural, N.O.S.

International Transportation

Organophosphorus Pesticide, Liquid, Toxic, (Diazinon), Class 6.1, UN3018, PGIII, Marine Pollutant

15. REGULATORY INFORMATION

SARA Title III Classification

Section 311/312: Acute Health Hazard
Chronic Health Hazard

Section 313 chemical(s): Diazinon (56%) (CAS No. 333-41-5)

Proposition 65

Not Applicable

CERCLA Reportable Quantity (RQ)

1.7 lbs. (Based on Diazinon content [RQ= 1lb.] in formulation)

RCRA Classification

Not Applicable

TSCA Status

Exempt from TSCA

16. OTHER INFORMATION

NFPA Hazard Ratings

Health: 1
Flammability: 0
Reactivity: 0

0	Least
1	Slight
2	Moderate
3	High
4	Severe

Questions concerning the safe handling of the product should be referred to:

1-800-334-9481

Issued Date: 01/10/1997

Revised Date: 05/25/1999

Supersedes: 02/08/1999

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.

RSVP# : SCP-955-785B-00182C