



MATERIAL SAFETY DATA SHEET

1. Product identification

Product name: DIAZINON 97% TC

Product use: Use to control of sucking and chewing insects and mites on a very wide range of crops.

Chemical name: O,O-diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate

Chemical family: Organophosphorous pesticide

Chemical formula: C₁₂H₂₁N₂O₃PS

2. Composition /Information on ingredients

Ingredient:	cas no,	% w/w
Diazinon	333-41-5	97%
Other ingredient		3.0%

3. Hazards identification

Symptoms of over exposure are papillary constriction, nausea, vomiting, muscle cramp, excessive salivation, dizziness, laboured breathing, convulsions and unconsciousness.

POTENTIAL HEALTH HAZARDS:

EYE: Mildly irritating to the eyes. Degree of injury will depend on the amount of material that gets into eye and the thoroughness of the first aid treatment.

SKIN: May cause irritation or be absorbed through the skin in harmful amounts. Cause redness and pain.

INHALATION: Harmful if inhaled.

INGESTATION: May be harmful if swallowed. May cause abdominal cramps, diarrhoea.

4. First aid measures

Eyes: First rinse eyes with plenty of water for several minutes (remove contact lenses if easily possible), then call a physician immediately.

Skin: Remove contaminated clothes. Wash promptly with soap and water. Rinse thoroughly. Get medical attention.

Ingestion: Rinse mouth. Give a slurry of activated charcoal in water to drink. Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Call a physician immediately.

Inhalation: Remove victim to fresh air and apply artificial respiration if indicated. Refer for medical attention.

Notes to physicians: This product is an organophosphate insecticide. If symptoms of cholinesterase inhibition are present, atropine sulfate by injection is antidotal. 2-PAM is also antidotal and may be administered, but only in conjunction with atropine.

5. Fire-fighting measures

Appropriate Extinguishing Media: Use dry chemical, foam, water spray or CO₂.

Fire Fighting Guidance: Isolate fire area. Evacuate downwind residents. Wear full protective clothing and self-contained breathing apparatus. Do not breathe smoke or



vapors generated. If water is used to fight fire, dike area to contain run-off and prevent contamination of water supplies.

Unusual Fire, Explosion, and Reactivity Hazards: Dusts may present explosion hazard.

Hazardous Decomposition Products: CO, CO₂, aliphatic organo-phosphates, substituted pyrimidines, HCN, S-TEPP and diazoxon may form when diazinon is reacted with trace amounts of water.

6. Accidental release measures

Environmental precautions: Isolate hazard area. Take all necessary action to prevent and to remedy the effects of spill. Avoid contamination of waterways.

Land spill or leak: Re-position any leaking containers so as to minimize further leakage. Dam and absorb spill with an absorbent material (e.g. sand or soil). Shovel the absorbed material into drums and top with hydrated lime. Disposal of the absorbed material will depend upon the extent of the spill.

7. Handling and storage

Precautions in storing

DO NOT contaminate water, food or feed by storage or disposal. Store in a cool, dry, well-ventilated area away from food or feed. Store in original containers only. Keep out of reach of children and animals. Do not contaminate other pesticides and fertilizers by storage or disposal. Separated from strong oxidants, bases.

8. Exposure controls /Personal protection

Engineering controls: Thoroughly ventilate all transport vehicles prior to unloading. Use local exhaust at all process locations to control employee exposure.

Eye/Face: Not required; use normal safety precautions.

Skin protection: Rubber (synthetic or natural) gloves.

Respiratory Protection: Not required; use normal safety precautions.

Other/General Protection: Harmful if swallowed. Avoid contact with eyes and skin. Avoid inhalation of dust or spray mist.

Applicators/ Handlers: Long-sleeved shirt and long pants, waterproof gloves, and shoes plus socks must be worn.

9. Physical and chemical properties

Appearance: LIGHT YELLOW BROWN LIQUID

Odor: faint ester-like odor

PH: 4-6 at 1%

Flash point: >170°C by open up

Specific Gravity/Density: 1.1

Solubility in water: 60mg/l at 20°C

Viscosity: 13 to 14 mPa.s (at 20°C)

10. Stability and reactivity



Stability: Diazinon decomposes at temperature above 120°C. It is stable in alkaline media.

Conditions to avoid (stability): Excessive heat and fire. Water, acids and bases. Thermal decomposition and burning may produce toxic by-product.

Decomposition product: CO, CO₂, aliphatic organo-phosphates, substituted pyrimidines, HCN, S-TEPP and diazoxon may form when diazinon is reacted with trace amounts of water.

11. Toxicological information

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Acute Oral LD50 (rat): 1250mg/kg

Acute Dermal LD50 (rat): >2150mg/kg

Acute Inhalation LC50(rat): >2330mg/m³ air for 4 hours

Eye Contact: slightly irritating

Skin Contact: slightly irritating

Mutagenic Potential: Not available

Reproductive Hazard Potential: Not available

Chronic/ Subchronic Toxicity Studies: Not available

Carcinogenic Potential: Not available

Carcinogenic Potential: None

Other Toxicity Information: Not available

12. Ecological information

Summary of Effects

Diazinon

This product is highly toxic to birds, fish, and other wildlife. Birds, especially waterfowl, feeding or drinking on treated areas may be killed. Do not exceed maximum permitted label rates. Application rates above those recommended significantly increase potential hazards to birds. Avoid overlapping of granules. Collect or incorporate granules that are spilled during loading or are visible on soil surface in turn areas. Keep out of lakes, streams, ponds, tidal marshes, and estuaries. Do not apply directly to water, to areas surface water is present, or to intertidal areas below the mean high water mark. Runoff may be hazardous to aquatic organisms in neighboring areas. Shrimp and crab may be killed at application rates recommended on the label. Do not apply where fish, shrimp, crab, and other aquatic life are important resources. Do not contaminate water by cleaning of equipment or disposal of equipment wash waters.

13. Disposal considerations

Pesticide Disposal

Pesticide or equipment rinsate that cannot be used according to the label instructions may be disposed of on site or at an approved waste disposal facility. For information concerning the proper disposal of pesticide-related wastes, contact your State Environmental Department, State Department of Agriculture, or the Regional Office of the Environmental Protection Agency for your area.



Container Disposal

Completely empty bag by shaking and tapping sides and bottom to loosen clinging particles into application equipment. Then dispose of empty bag in a sanitary landfill or incinerate, or burn if allowed by State and local authorities. Stay out of smoke during burning. Do not reuse container.

14. Transport information

Do not transport with food and feedstuffs. Severe marine pollutant.

DOT Classification

Proper shipping name: Organophosphorus Pesticide, Liquid, Toxic, (Diazinon)

Chemical name: O,O-diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate

CLASS: 6.1

UN No.: 3018

PG: III

CAS NO.: 333-41-5

15. Regulatory information

None

16. Other information

None

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