

Walla Walla Environmental, Inc.

Formerly Enduro-Chem, Inc.

MATERIAL SAFETY DATA SHEET

WALLA WALLA ENVIRONMENTAL, INC.

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Page 1 of 2

I. MATERIAL IDENTIFICATION

Product Name: CPF-2D

Product No.: 37330 37385 37100

CAS#: 333-41-5

Active Ingredient (%): Diazinon (87%)

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

phosphorothioate

Chemical Class: Organophosphate Insecticide

EPA Signal Word: WARNING

II. REGULATORY INFORMATION

NFPA HAZARD RATINGS:

Health 2 Flammability 2 Reactivity 0

SARA Title III Classification:

Section 313 Chemical: Diazinon (CAS No. 333-41-5)

Proportion 85 (CA ONLY): Not Applicable

Reportable Quantity (RQ): one pint

RCRA Classification: Not Applicable

DOT Classification: CONSUMER COMMODITY, ORM-D (ORM-D-ADR)

BAF Freight Classification: Insecticides or Fungicides, Agricultural, N.O.S.

III. HAZARDOUS INGREDIENTS

Material	PEL	OSHA	ACGIH	TLV	NTP/ARC/OSHA
Diazinon	0.1 mg/m3 (skin)	0.1 mg/m3 (skin)			Carcinogen Not Listed

IV. FIRST AID PROCEDURES

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 1 or 2 glasses of water to drink and induce vomiting. Repeat until vomit fluid is clear. Never give anything by mouth to an unconscious person. Avoid contact with contaminated skin or clothing, wear rubber gloves. Apply artificial respiration, if necessary, preferably by mechanical means. Avoid mouth-to-mouth resuscitation.

Eye Contact: Immediately rinse eyes with a large amount of running water. Hold eyelids apart to rinse the entire surface of the eye 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 medicating agents except on the advice of a physician. Remove contaminated clothing and wash before reuse.

Inhalation: Move victim from contaminated area to fresh air. Apply artificial respiration if necessary.

Notes to Physician: CPF-2D is an organophosphate (cholinesterase inhibiting) insecticide. If ingested, induce emesis or lavage stomach. Atropine is antitoxical 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, amorphylline, theophylline, phenothiazines, reserpine, furazolidone, and ethacrynic acid are contraindicated in poisonings by organophosphates. Administer i.v. fluid cautiously if necessary to correct dehydration.

Based on the acute oral LD50 in rats, ingestion of 2 to 3 tablespoons may be fatal to an adult human.

Medical Conditions likely to be Aggravated Exposure: Exposure to cholinesterase inhibitors should be restricted in persons with hemolytic anemias or pre-existing depression of cholinesterase.

V. HEALTH HAZARD INFORMATION

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.

Acute Toxicity Initiation Studies

Ingestion: slightly toxic
Oral LD50 (Rat) = 1,250 mg/kg body weight

Dermal Absorption:

moderately toxic
Dermal LD50 (Rabbit) => 2,020 mg/kg body weight

Inhalation:

slightly toxic
Inhalation LC50 (Rat) => 6.4 mg/L air - 4 hours

Eye Contact:

minimally irritating (Rabbit)

Skin Contact:

slightly irritating (Rabbit)

Skin Sensitization:

not a sensitizer (Guinea Pig)

Chronic Toxicity Studies

Long-term studies with experimental animals, conducted by Ciba and the National Cancer Institute, have shown that Diazinon is not oncogenic or carcinogenic. In other studies, Diazinon did not effect reproductive capabilities in rats over two generations, was not teratogenic in rats or rabbits, and did not cause delayed neurotoxicity. Numerous mutagenicity studies, using fully recognized and validated assay systems, have shown that Diazinon is not mutagenic. No long-term effects, other than symptoms associated with anticholinergic activity at high dose levels, occurred in any of the studies conducted with -Diazinon.

Toxicity of Other Components

None known

VI. PERSONAL PROTECTION AND PRECAUTIONSIngestion:

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.

Eye Contact:

To avoid eye contact, wear chemical safety glasses or goggles.

Skin Contact:

To avoid skin contact, wear rubber gloves, rubber boots, long-sleeved shirt, long pants and head covering. Discard heavily contaminated articles that cannot be washed.

Inhalation:

To avoid breathing spray or mist, wear a NIOSH-approved chemical cartridge respirator with organic vapor cartridge and pesticide prefilter or air-supplied respirator.

VII. PHYSICAL HAZARD INFORMATIONFire and Explosion

Flash Point (Test Method): 175 to 200°F (TCC)

Flammable Limits (% in Air): Not Available

Autoignition Temperature: 360°C

ReactivityStability:

Stable

Hazardous Polymerization:

Will Not Occur
Acids and Bases

Conditions to Avoid:

Hazardous Decomposition Products: None Known

Physical Properties

Appearance: Light tan to brown liquid

Odor: slight sulfur-like

Melting Point:

Not Applicable

Solubility in H₂O:

0.006g/100ml @ 22°C (Technical)

Boiling Point:

117-120°C @ 50 mm Hg (Technical)

Specific Gravity:

1.095g/ml (density) @ 20°C

Vapor Pressure:

1.06 X 10⁻⁴ mmHg @ 25°C (Technical)

pH:

4.5 - 6.5 @ 25°C

Evaporation Rate:

Not Available

Unusual Fire, Explosion and Reactivity Hazards

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

VIII. ENVIRONMENTAL PROTECTIONIn Case of Spill or Leak

Wear chemical goggles, rubber gloves, rubber boots, long-sleeved shirt, long pants, head covering and a NIOSH-approved chemical cartridge respirator with pesticide prefilter, or air supplied respirator. For small spills, cover the Spill 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 container and handle in an approved manner. Flush the spill area with water to remove any residue. Do not allow wash water to contaminate water supplies.

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.

Disposal

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

Questions concerning the safe handling of CPF-2D should be referred to

WALLA WALLA ENVIRONMENTAL, INC.

Phone No. 509 522 0498

With this information and recommendations set forth herein are believed to be accurate as of the date hereof, WALLA WALLA ENVIRONMENTAL, INC. MAKES NO WARRANTY WITH THE RESPECT HERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.