



KnoxOut[®]GH

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MATERIAL SAFETY DATA SHEET

PRODUCT IDENTIFICATION

Product Name: Knox Out[®]GH
Cleary Product Code: 7030 (1 qt), 7031 (1 gal)
EPA REG. NO: 4581-379-1001
Chemical Name: O,O-diethyl O-[6-methyl-2-(1-methylethyl)-4-pyrimidinyl]phosphorothioate C₁₂H₂₁N₂O₃PS
Synonyms: Diazinon
Chemical Family: Organophosphate

INGREDIENT INFORMATION

Hazardous Ingredients	Percent	Exposure Limits:	
Diazinon (CAS No. 333-41-5)	23.0%	ACGIH-TLV/TWA	0.1 mg/M ³ (skin)
		OSHA-TWA	N/E

Contained in polymeric micro-capsules dispersed and suspended in water.
Contains no substances known to be carcinogens.

HEALTH HAZARD DATA

Effects of exposure to concentrate:

Irritation: N/A

Corrosivity: N/A

Skin Contact: Not a Sensitizer

Inhalation Effects: N/A

Lung Effects: N/A

EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Remove to fresh air. Get medical attention if symptoms appear.

Ingestion: Give 1 to 2 glasses of water. Induce vomiting. Get medical attention. Atropine is antidotal only if symptoms of cholinesterase inhibition are present. Morphine is contraindicated.

Skin Contact: Flush with soap and water, get medical attention if symptoms appear. Remove and launder contaminated clothing.

Eye Contact: Flush with plenty of water for at least 15 minutes. Get medical attention.

Chronic Effects of Overexposure: Symptoms of acute organophosphate poisoning include headache, dizziness, weakness, incoordination, muscle twitching, tremor, nausea, abdominal cramps, diarrhea, and sweating.

FIRE AND EXPLOSION DATA

Flash Point (Method): 96°C, 205°F (TCC)

Flammable Limits: N/A

Autoignition Temperature/Fire Point: N/A

Extinguishing Media: Water spray, water fog, water stream, CO₂, dry chemical, foam, and earth or sand.

Special Fire Fighting Procedures: Wear self contained breathing apparatus and protective clothing.

Unusual Fire and Explosion Hazards: Possible toxic fumes.

ACCIDENTAL RELEASE MEASURES

Steps to be taken in case material is released or spilled: Absorb with sand or inert material. Sweep or scoop up and remove. Flush with water.

HANDLING AND STORAGE

Precautions to be taken in handling and storing: Store in the original container, preferably in a locked storage area. Do not store in a manner where cross-contamination with other pesticides, fertilizers, food or feed could occur.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective Clothing: Wear protective clothing which prevents skin contact.

Eye Protection: Use normal safety precautions.

Ventilation: Always maintain exposure below permissible exposure limits. Use with adequate ventilation.

Respiratory Protection: Not required. Use normal safety precautions.

Other: Gloves-neoprene, butyl rubber, natural rubber, or polyethylene.

PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: 100°C, 212°F

Melting Point: N/A

Freezing Point: 0°C, 32°F

Specific Gravity (H₂O = 1): 1.041 @ 20/20°C

Vapor Pressure (mm Hg): N/E

Vapor Density (Air = 1): N/A

% Volatile: N/A

Solubility in Water: Disperses

Appearance and Odor: Beige liquid, characteristic odor

REACTIVITY HAZARD DATA

Stability: Stable

Conditions To Avoid: Heat

Incompatibility: Materials that react with water

Hazardous Polymerization: N/A

Hazardous Decomposition Products: Possible toxic substances from thermal degradation

TOXICOLOGICAL INFORMATION

TOXICITY DATA:

Oral (acute): LD₅₀ (Rat) > 21,000 mg/kg

Dermal (acute): LD₅₀ (Rabbit) > 10,000 mg/kg

Inhalation (acute): LC₅₀ (Rat) > 22.42 mg/L (1 hr. exposure)

Chronic, Subchronic etc: The active ingredient, diazinon, is a cholinesterase inhibitor to which repeated exposure may produce effects without symptoms.

Systems of acute organophosphate poisoning include headache, dizziness, weakness, incoordination, muscle twitching, tremor, nausea, abdominal cramps, diarrhea, and sweating.

ENVIRONMENTAL HAZARDS

This pesticide 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. Rates above those recommended significantly increase potential hazards to birds and waterfowl. Avoid overlapping of sprays. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or when disposing of equipment washwaters. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where fish, shrimp, crab, and other aquatic life are important resources.

This pesticide is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this pesticide or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

DISPOSAL

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

TRANSPORTATION INFORMATION

DOT Shipping Description: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, UN 3082, PG III, RQ (DIAZINON)

Reportable Quantity: 1 lb (> 0.5 gal)

Hazardous Substance: Diazinon

DOT Label Requirements: Placard @ > 1,000 lb (960 gal)

REGULATORY INFORMATION

EPA SARA Title III Data:

Section 302 Substances: N/A

RCRA Waste Number: N/A

Section 311/312 Hazardous Categories:

Immediate Health: Yes

Delayed Health: No

Fire: No

Sudden Pressure: No

Reactive: No

Section 313 Toxic Chemicals (40CFR 372): This product contains the following chemicals subject to SARA Section 313 reporting requirements: Diazinon

CERCLA RQ: 1 lb

CALIFORNIA PROP 65: N/A

PLEASE NOTE: CLEARY CHEMICAL CORPORATION believes that the information and recommendations contained herein are accurate as of the date hereof. The information provided herein applies only to the specific product designated and may not be valid where said product is used in combination with any other material or in any process. It is the user's responsibility to determine the suitability of the information for their purposes. No warranty of fitness for any particular purpose, warranty of merchantability, or any other warranty, expressed or implied, is made concerning the information provided herein.