
" VYDATE " 10L
M0000455 Revised 1-JUL-2009

Substance ID :130000029169

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification

"VYDATE" is a registered trademark of DuPont.

Tradenames and Synonyms

DPX-D1410 10L INSECTICIDE
VYDATE 10L INSECTICIDE/NEMATICIDE
VYDATE 10L INSECTICIDE
VYDATE 10L (DPX-1410-381) INSECTICIDE
VYDATE 10L (CLEAR)
VYDATE 10L (SPAIN)
VYDATE 10L (EUROPE)
B11152174

Company Identification

MANUFACTURER/DISTRIBUTOR
DuPont
1007 Market Street
Wilmington, DE 19898

PHONE NUMBERS
Product Information : 1-800-441-7515 (outside the U.S. 302-774-1000)
Transport Emergency : CHEMTREC 1-800-424-9300(outside U.S. 703-527-3887)
Medical Emergency : 1-800-441-3637 (outside the U.S. 302-774-1000)

COMPOSITION/INFORMATION ON INGREDIENTS

Components

Material	CAS Number	%
Oxamyl	23135-22-0	10
INERT INGREDIENTS		90

HAZARDS IDENTIFICATION

Emergency Overview

DANGER! POISON! May be fatal if swallowed. May be fatal if absorbed through skin or inhaled. Do not

breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing.

WARNING SYMPTOMS (All Oxamyl Products)

Oxamyl poisoning produces effects associated with anticholinesterase activity which may include weakness, blurred vision, headache, nausea, abdominal cramps, discomfort in the chest, constriction of pupils, sweating, slow pulse, muscle tremors.

Potential Health Effects

Based on animal data, Skin permeation may occur in amounts capable of producing the effects of systemic toxicity.

Based on animal data, skin contact, eye contact, inhalation or ingestion exposures to Oxamyl may cause acute cholinesterase depression characterized by weakness, nausea, headache, abdominal cramps, excessive seating, salivation, tearing, constricted pupils, blurred vision, muscle twitching and confusion. Higher exposures may lead to loss of consciousness, convulsions, or severe respiratory depression.

Individuals with pre-existing disease of the central nervous system or conditions which lower cholinesterase levels may have increased susceptibility to the toxicity of excessive exposures.

Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

FIRST AID MEASURES

First Aid

INHALATION

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

SKIN CONTACT

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician. Wash contaminated clothing before reuse.

EYE CONTACT

In case of contact, immediately flush eyes with plenty of water

for at least 15 minutes. Call a physician.

INGESTION

If ingested, call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching the back of the throat with finger. If person is unconscious, do not give anything by mouth and do not induce vomiting.

Notes to Physicians

Atropine sulfate should be used for treatment. Administer repeated doses, 1.2 to 2.0 mg intravenously every 10 to 30 minutes until full atropinization is achieved. Maintain atropinization until the patient recovers. Artificial respiration or oxygen may be necessary. Allow no further exposure to any cholinesterase inhibitor until recovery is assured. Do not use morphine or 2-PAM.

FIRE FIGHTING MEASURES

Flammable Properties

Flash Point	: >100 C (>212 F)
Method	: Closed Cup.

Fire and Explosion Hazards:

Handle the material as if it were a fire and explosion hazard.

Extinguishing Media

Use media appropriate for surrounding material.

Fire Fighting Instructions

Evacuate personnel to a safe area. Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus. Wear full protective equipment. Shut off source of fuel, if possible and without risk. Use water spray. Runoff from fire control may be a pollution hazard.
If area is exposed to fire and conditions permit, let fire burn itself out. Burning chemicals may produce by-products more toxic than the original material. If product is on fire, wear self-contained breathing apparatus and full protective equipment. Use water spray. Control runoff.

ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL)

sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Evacuate personnel, thoroughly ventilate area, use self-contained breathing apparatus. Keep upwind of leak - evacuate until gas has dispersed.
Emergency Response - Chemical resistant coveralls, waterproof gloves, waterproof boots and face/eye protection. If dusting occurs, use NIOSH approved respirator protection.

Initial Containment

Follow applicable Federal, State/Provincial and Local laws/ regulations. Dike spill. Prevent material from entering sewers, waterways, or low areas.

Remove source of heat, sparks, flame, impact, friction or electricity.

Spill Clean Up

Soak up with sawdust, sand, oil dry or other absorbent material. Shovel or sweep up.

Never return to container for reuse. Scoop into bags or boxes with plastic or aluminum shovel. Neutralize with solid sodium hydroxide at rate of 3 lbs. per gallon spilled.

Accidental Release Measures

Place in closed container for disposal.

HANDLING AND STORAGE

Handling (Personnel)

USERS SHOULD: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Do not breathe vapor or mist. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Wash clothing after use. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.

Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove personal protective equipment immediately after handling this product Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Storage

Store above 0 C (32 F) Store product in original container only. Keep container tightly closed. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material. Do not contaminate water, other pesticides, fertilizer, food or feed in storage.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Use only with adequate ventilation.

Personal Protective Equipment

Always follow the label instructions when handling this product.

Applicators and other handlers must wear:

Coveralls over short-sleeved shirt and short pants.
Chemical-resistant gloves, such as barrier laminate or butyl rubber.
Chemical-resistant footwear plus socks.
Protective eyewear.
Chemical-resistant headgear for overhead exposure.
Chemical-resistant apron when mixing or loading.

A respirator with an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH) approval number prefix TC-14G) or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P or HE prefilter.

Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

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PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

Coveralls over short-sleeved shirt and short pants.
Chemical-resistant footwear plus socks.
Protective eyewear.
Chemical-resistant headgear for overhead exposure.

Personal Protective Equipment

The protective equipment recommended below applies for industrial handling and formulation only. It is not intended for field application of final products; refer to final product labels or MSDSs for field application precautions.

EYE/FACE PROTECTION

Wear safety glasses. Wear coverall chemical splash goggles, and face shield when the possibility exists for eye or face contact from airborne material.

PROTECTIVE CLOTHING

Wear impervious clothing, such as gloves, apron, boots, or whole body suit make of Neoprene as appropriate.

Exposure Guidelines

Applicable Exposure Limits

Oxamyl

PEL	(OSHA)	: None Established
TLV	(ACGIH)	: None Established
AEL *	(DuPont)	: 0.05 mg/m3, 8 & 12 Hr. TWA

* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Solubility in Water	: 100 % Soluble
Odor	: Sulfurous (slight).
Form	: Liquid.
Density	: 1.02 g/cm3
pH	: 2.1
Color	:Colorless or green depending on region.

STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and storage conditions.

Incompatibility with Other Materials

Incompatible with strong acids or bases (slowly

hydrolyzes).

Decomposition

Decomposition will not occur.

Polymerization

Polymerization will not occur.

TOXICOLOGICAL INFORMATION

Animal Data

Vydate 10L

Oral LD50:	28 mg/kg in rats
Dermal LD50:	> 5000 mg/kg in rats
Inhalation LC50, 4hr:	0.62 mg/L in rats

Based on animal testing Vydate 10L is a mild or slight skin irritant, and an eye irritant, but not a skin sensitizer.

Oxamyl
Single or repeated skin contact with Oxamyl caused mild skin irritation and cholinesterase inhibition (tremors, salivation, watery eyes).

Single exposure to Oxamyl by ingestion caused signs of cholinesterase inhibition, reduced weight gain, and temporary alterations in clinical chemistry including liver enzymes and glucose levels. Repeated or long-term ingestion exposure caused nonspecific effects such as weight loss and irritation, as well as signs of cholinesterase inhibition. Changes in liver enzyme levels have been reported, but the structure of the liver itself appeared normal.

Single exposure of Oxamyl by inhalation caused cholinesterase inhibition, tremors and lethargy. Effects of cholinesterase inhibition at non-lethal concentrations were rapidly reversible.

Tests in animals demonstrate no carcinogenic activity. Oxamyl did not produce birth defects in developmental studies in rats and rabbits. There was no indication of increased fetal susceptibility to Oxamyl in these studies. Tests in animals demonstrate no effect on reproductive indices (mating, fertility, or gestation). There was no indication of increased offspring susceptibility in a two-generation reproduction study.

Oxamyl does not produce genetic damage in bacterial or mammalian cell cultures, but has not been tested in animals.

ECOLOGICAL INFORMATION

Ecotoxicological Information

AQUATIC TOXICITY:
96 hour LC50 - Rainbow trout: 27 mg/L

DISPOSAL CONSIDERATIONS

Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system. Do not contaminate water supply, food or feed by storage or disposal. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA regional office for guidance.

Container Disposal

Triple rinse (or equivalent) the container.

Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned stay out of smoke.

TRANSPORTATION INFORMATION

\# Shipping Information

DOT/IMO:

Proper Shipping Name	CARBAMATE PESTICIDE, LIQUID, TOXIC (Oxamyl)
Hazard Class	6.1
UN No.	UN 2992
Packing Group	II
Marine Pollutant	MARINE POLLUTANT (10% Oxamyl) Water or Bulk
Reportable Quantity	Yes (If 100 or more pounds Oxamyl in a single container).

REGULATORY INFORMATION

U.S. Federal Regulations

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute : Yes
Chronic : No
Fire : No
Reactivity : No
Pressure : No

ADDITIONAL REGULATORY INFORMATION

Section 302 Extremely Hazardous Substance:
Oxamyl - Threshold Planning Quantity (TPQ)
(100/10,000 lbs.)

SARA/CERCLA Reportable Quantity (RQ):
Oxamyl (100 lbs.)

RCRA Hazardous Waste: Oxamyl (P194)

OTHER INFORMATION

NFPA, NPCA-HMIS

NFPA Rating
Health : 2
Flammability : 1
Reactivity : 0

NPCA-HMIS Rating
Health : 3
Flammability : 1
Reactivity : 0

Personal Protection rating to be supplied by user depending on use conditions.

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

(Continued)

Responsibility for MSDS: DuPont Crop Protection
Address : Wilmington, DE 19898
Telephone : 1-888-638-7668

# Indicates updated section.