

VYTEN 10GR™
MATERIAL SAFETY DATA SHEET

SECTION 1 Chemical product and Company identification

Product Name: Vyten 10GR™ (Oxamyl)

Chemical name: (EZ)-N,N-dimethyl-2-methylcarbamoyloxyimino-2-(methylthio)acetamide

Formula: C₇H₁₃N₃O₃S

Chemical Family: Oxime carbamate

Product Use: Commercial Insecticide, nematocide and acaricide

Supplier: SINERIA HOLLAND BV

Randwycksingel 20-A015

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SECTION 2 Composition/Information on Ingredients

<u>Product Name</u>	<u>Content, g/L</u>	<u>CAS RN</u>
Oxamyl	100 g	23135-22-0

SECTION 3 Hazards Identification

Emergency Overview:

DANGER! POISON! Fatal if swallowed or inhaled. May be fatal if absorbed through the eyes. Causes irreversible eye damage. May be harmful if absorbed through the skin. Do not breathe vapors. Do not get in eyes, on skin, or on clothing.

WARNING SYMPTOMS (All Products containing Oxamyl):

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.

SECTION 4 First Aid Measures

CONTAINS AN N-METHYL CARBAMATE THAT INHIBITS CHOLINESTERASE.

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IF SWALLOWED: Call poison control center or doctor immediately for treatment advice. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call an ambulance, and then give artificial respiration, preferably by mouth-to mouth, if possible. Call a poison control center or doctor for further treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

ATROPINE IS AN ANTIDOTE--SEEK MEDICAL ATTENTION AT ONCE IN ALL CASES OF SUSPECTED POISONING

If warning symptoms appear (see WARNING SYMPTOMS), get medical attention. Have the product container or label with you when calling a poison control center or doctor or going for treatment.

NOTE TO PHYSICIAN:

WARNING SYMPTOMS - 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, and muscle tremors.

TREATMENT - 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.

SECTION 5 Fire Fighting Measures

Flammable Properties

Flash Point: 51.7 C (125.1 F) - Heating can release vapors which can be ignited.

Extinguishing Media: Water Spray, Dry Chemical.

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. Use water spray. Cool tank/container with 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.



SECTION 6 Accidental release measures

General: Use proper protective equipment to minimize personal exposure. Take all necessary action to prevent and to remedy the effects of the spill. Ensure that the disposal is in compliance with regulations.

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 and use self-contained breathing apparatus.

Emergency Response: Always wear chemical resistant coveralls, waterproof gloves, waterproof boots and face/eye protection. If dusting occurs, use NIOSH approved respirator protection.

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

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.

SECTION 7 Handling and storage

Handling (Personnel): 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.

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

Handling (Physical Aspects): Keep away from heat, sparks and flames.

Storage: Store above 0°C. Store product in original container only.

Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Do not store or consume food, drink or use tobacco in areas where they may become contaminated with this material. Do not store in or around the home.

SECTION 8 Exposure controls/Personal protection

Engineering Controls: Use only with adequate ventilation. Keep container tightly closed. Do not use or store near heat or open flame.

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 footwear plus socks. Chemical-resistant gloves, such as barrier laminate or butyl rubber. Protective eyewear. Chemical-resistant headgear for overhead exposure. Chemical-resistant

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apron when mixing, or loading, or cleaning equipment.

- A respirator with an organic vapor-removing cartridge with a pre-filter 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 pre-filter.
- 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.

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 gloves, such as barrier laminate or butyl rubber.
- Chemical-resistant footwear plus socks.
- Protective eyewear.
- Chemical-resistant headgear for overhead exposure.

SECTION 9 Physical & Chemical properties

Form: Liquid

Odour: Aromatic

pH: 4-7

Solubility in water: Miscible

SECTION 10 Stability & Reactivity

Stability: Stable under normal condition

Hazardous Polymerization: Will not occur

Incompatibilities: Will not occur

SECTION 11 Toxicological Information

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

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- 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 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. In an acute neurotoxicity study there was unequivocally decreased blood and brain cholinesterase activity. The NOEL in this study was 0.1 mg/kg.
- Single exposure to 0.024 mg/L of Oxamyl by *inhalation* caused tremors and lethargy. These signs were not observed in a group exposed to 0.0049 mg/L. Plasma, red blood cell and brain cholinesterase activity were decreased in rats exposed to 0.024 mg/L and to a lesser extent in rats exposed to 0.0049 mg/L.
- Tests in animals demonstrate *no carcinogenic activity*. Tests in some animals indicate that Oxamyl may have developmental toxicity, but only at doses close to those which cause maternal toxicity. The only reported effects were slightly reduced fetal weights and fewer implantations. Tests in animals demonstrate *no effect on reproductive indices* (mating, fertility, or gestation).
- Reductions in litter size, pup weight and survival occurred only at dose levels that also caused toxicity in the parental animals.
- Oxamyl does not produce genetic damage in bacterial cell or mammalian cultures, but has not been tested in animals.

SECTION 12 Ecological Information

- 96 hour LC50 - Rainbow trout: 4.2 mg/L.
- 96 hour LC50 - Sheepshead minnow: 2.6 mg/L.

SECTION 13 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, 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, if allowed by State and Local authorities, by burning. If burned, stay out of smoke.

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SECTION 14 Transport Information

DOT/IMO

Proper Shipping Name : CARBAMATE PESTICIDE, LIQUID, TOXIC, FLAMMABLE(OXAMYL)

Hazard Class : 6.1

UN No. : UN 2991

Subsidiary Hazard Class : 3

Packing Group : I

SECTION 15 Regulatory Information

UNEP Persistent Organic Pollutant: Not listed

UNEP Prior Informed Consent Chemical (PIC): Not listed

WHO Obsolete Pesticide: Not listed

SECTION 16 Other Information

The information contained in the Material Safety Data Sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as a warranty or as a specification. The information relates only to the product specified and may not be suitable for use with other materials or in processes other than those specifically described herein.

Sineria makes no warranty, express or implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions. We disclaim all liability for injury or damage stemming from any improper use of the material or product described herein.

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