

MATERIAL SAFETY DATA SHEET OF

OXAMYL 10% GR

1. IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Supplier: Shanghai Bosman Industrial Co., Ltd

Street address: No. 1611, North Sichuan Road, Hongkou, Shanghai R.P. China

Tel: + 86 21 63065878

Fax: + 86 21 63065878

Product name: Oxamyl 10% GR

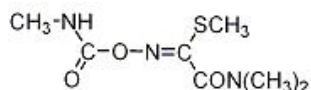
2. COMPOSITION/INFORMATION ON INGREDIENTS

Formulation Type: Granule

Active Ingredients: Oxamyl

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

Structural Formula:



Composition:

INGREDIENT	CAS NO	PROPORTION
Oxamyl	23135-22-0	10% min
other	Not available	90% max.

Other ingredients determined not to be hazardous

3. HAZARDS IDENTIFICATION

Emergence overview

DANGER-POISON! Fatal if swallowed. May be fatal if inhaled. Do not breathe spray mist. Causes moderate eye irritation. Avoid contact with eyes or clothing. Contains methanol which may cause blindness.

Hazard classification

Hazardous (National Occupational Health and Safety Commission - NOHSC)

4. FIRST AID MEASURES

First aid for 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.

First aid for skin:

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.

First aid for inhalation:

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

First aid for ingestion:

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.

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, 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 2-PAM for exposure to OXAMYL alone.

However, for exposure to combinations of OXAMYL and organophosphorous insecticides, 2-PAM may be used as required to supplement the atropine sulfate treatment. Do not use morphine.

5. FIRE FIGHTING MEASURES

Flammable Properties

Flash Point : NA



SHANGHAI BOSMAN INDUSTRIAL CO., LTD.

Add: Room 1804, No. 1611, North Sichuan Road, Hongkou District, Shanghai, P.R. China.

Tel: +86 21 63065878 | **Fax:** +86 21 63065878 | **E-mail:** info@bosmangroup.com

Website: www.bosmangroup.com

May be ignited by heat, sparks, or open flame.

Flammable liquid. Vapor forms explosive mixture with air. Heating can release vapors which can be ignited.

Suitable extinguishing media: Water Spray, Foam, Dry Chemical, CO₂.

Special fire-fighting procedures:

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. 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.

Protection of fire-fighters:

Wear self-contained breathing apparatus. Wear full protective equipment. Shut off source of fuel, if possible and without risk.

6. ACCIDENT RELEASE MEASURES

Personal precautions

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.

Enviromental precautions

Remove source of heat, sparks, flame, impact, friction or electricity. Dike spill. Prevent material from entering sewers, waterways, or low areas. Follow applicable Provincial and Local laws regulations.

Methods for cleaning

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 lb per gallon spilled.

7. HANDLING AND STORAGE



SHANGHAI BOSMAN INDUSTRIAL CO., LTD.

Add: Room1804, No.1611, North Sichuan Road, Hongkou District, Shanghai, P.R. China.

Tel: +86 21 63065878 | **Fax:** +86 21 63065878 | **E-mail:** info@bosmangroup.com

Website: www.bosmangroup.com

Handling precautions:

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. 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. Keep away from heat, sparks and flames.

Storage precautions:

Store above 0 C (32 F). Store product in original container only. 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. Not for use or storage in or around the home.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposures limits (optional)

OXAMYL

PEL (OSHA): None Established

TLV (ACGIH): None Established

AEL: 0.05 mg/m³, 8 & 12 Hr. TWA

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

Respirator protection: Under normal handling conditions, no respiratory protection is needed; however, when potential exposure to this product is excessive, wear a respirator approved for dusts and mists or for pesticides. 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.

Eye protection: Splash-proof goggles should be used to prevent liquid splashes from getting into the eyes.

Skin protection: Wear long sleeves and trousers to prevent skin contact.

Hand protection: The use of chemical-resistant gloves to prevent skin contact is

recommended as good practice.

Ventilation requirements: Use only with adequate ventilation.

Working and hygiene procedures:

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 or nitrile rubber or polyvinyl chloride or viton or neoprene rubber.

Chemical-resistant footwear plus socks.

Protective eyewear.

Chemical-resistant headgear for overhead exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Granule

Color: Purple

Odor: NA

Molecular weight: 219.3 (for oxamyl)

pH: 4.0-7.0

10. STABILITY AND REACTIVITY

Thermal stability: Stable at normal temperatures and storage conditions.

Hazardous polymerization: Will not occur.

Incompatibilities: Incompatible with strong acids or bases (slowly hydrolyzes).

Decomposition: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Acute oral toxicity: Acute oral LD₅₀ for male rats 3.1, female rats 2.5 mg/kg.

Acute skin toxicity: Skin and eye Acute percutaneous LD₅₀ for male rabbits 5027, female

rabbits >2000 mg/kg.

Acute irritation toxicity: Not irritating to skin (rabbits).

Acute sensitization: Not a skin sensitiser (guinea pigs).

Acute inhalation : Inhalation LC50 (4 h) for rats 0.056 mg/l air (particulate suspension in air).

Chronic toxicity

NOEL (2 y) for rats 50 mg a.i./kg diet (2.5 mg/kg b.w. daily); for dogs 50 mg/kg diet.

12. ECOLOGICAL INFORMATION

Available data are for Oxamyl Technical:

Birds: Highly toxic to birds

Acute oral LD50 for mallard ducks 4.0 mg/kg. Dietary LC50(8 d) for mallard ducks 702 mg/kg

Fish: Middle toxic to fish

LC50(96 h) for rainbow trout 4.3 mg/l.

Daphnia: Highly toxic to daphnia

LC50 (48 h) 0.41 mg/l.

Algae: Slightly toxic to algae

EC50(96 h) for *Senenastrium capricornutum* 3.2 mg/l

Bees: Highly toxic to bees

Acute LD50 (contact) 0.33 µg/bee, (oral) 0.05 µg/bee

Earthworms: Slightly toxic to earthworm

LC50 (14 d) 117.8 ppm

Soil/Environment Degraded rapidly in soil, DT50 c. 7 d.

13. DISPOSAL CONSIDERATION

Waste disposal method:

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:

For Metal Containers (non aerosol): Triple rinse (or equivalent) the container. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by the State and local authorities. For Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

14. TRANSPORT INFORMATION**ADR**

UN number: 2757

UN proper shipping name: CARBAMATE PESTICIDE, SOLID, TOXIC (Oxamyl)

Transport hazard class(es): 6.1

Packing group: II

Environmental hazards: Environmentally hazardous

IATA

UN number: 2757

UN proper shipping name: Carbamate pesticide, solid, toxic (Oxamyl)

Transport hazard class(es): 6.1

Packing group: II

Environmental hazards : For further information see Section 12.

IMDG

UN number: 2757

UN proper shipping name: Carbamate pesticide, solid, toxic (Oxamyl)

Transport hazard class(es): 6.1

Packing group: II

Environmental hazards : Marine pollutant

15. REGULATORY INFORMATION

Follow local laws and regulations.

16. OTHER INFORMATION

This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of the how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made the user should contact the company.

-- END OF MSDS --