



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.bosmanagrochem.net

Version: 1.0 Issue date: June 1, 2023

MATERIAL SAFETY DATA SHEET OF

Prodiamine 65% WG

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: Prodiamine 65% WG

2. COMPOSITION/INFORMATION ON INGREDIENTS

Formulation Type: Water dispersible granule (WG)

Active Ingredients: Prodiamine

Chemical Abstracts name: 2, 4-dinitro-N3,N3-dipropyl-6-(trifluoromethyl)-1,3-benzenediamine

Molecular Formula: C₁₃H₁₇F₃N₄O₄

Molecular Weight: 350.3

Other ingredients determined not to be hazardous

INGRIDIENT	CAS NO	PROPORTION (% , w/w)
Prodiamine	29091 - 21 - 2	65%
others	Not available	Balance

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: CAUTION. Harmful if inhaled or absorbed through the skin. Avoid contact with skin, eyes or clothing. Avoid breathing dust. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Hazardous decomposition products:

Can decompose at high temperatures forming toxic gases.

Symptoms of acute exposure:

Causes mild eye and skin irritation. Allergic skin reactions are possible.



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4. FIRST AID MEASURES

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

If Inhalation: When symptoms occur: go into open air and ventilate suspected area.

If Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes.

If eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. IF SWALLOWED: Immediately call a POISON CONTROL CENTER or doctor/physician.

5. FIRE FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Alcohol foam, carbon dioxide, dry chemical, water spray, fog. Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: Do not use a heavy water stream. A heavy water stream may spread burning fire.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

Advice for Firefighters

Firefighting Instructions: Exercise caution when fighting any chemical fire.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Other information: Do not allow run-off from fire fighting to enter drains or water courses.

De-contaminate equipment or materials involved in pesticide fires.

6. ACCIDENT RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Handle in accordance with good industrial hygiene and safety practice.

For Non-emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).



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Emergency Procedures: Evacuate unnecessary personnel. Evacuate unnecessary personnel.

For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection. Use appropriate personal protection equipment (PPE).

Emergency Procedures: Ventilate area.

Environmental Precautions

Prevent entry to sewers and public waters.

Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and

7. HANDLING AND STORAGE

Handling: Wash thoroughly after handling. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid contact with heat, sparks and flame. Avoid ingestion and inhalation.

Storage: Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal Protective Equipment: Protective goggles. Gloves.

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Chemical goggles or safety glasses.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Other Information : When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Yellow granule

Odor: NA

Solubility in water: Disperse in water



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Melting point: NA

pH : 7.0-10.0

Flammability: Not flammable.

10. STABILITY AND REACTIVITY

Chemical stability: Stable under normal storage and use conditions.

Conditions to avoid: Direct sunlight. Extremely high or low temperatures.

Hazardous decomposition: Carbon oxides (CO, CO₂). Sulfur oxides. Silicon oxides.

Incompatible materials: Strong acids. Strong bases. Strong oxidizers.

Hazardous reactions: Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Oral Acute oral LD₅₀ for rats >5000 mg/kg.

Skin and eye Acute percutaneous LD₅₀ for rats >2000 mg/kg.

Mildly irritating to eyes; non-irritating to skin (rabbits).

Not a skin sensitiser.

Inhalation LC₅₀ (4 h) for rats >0.256 mg/m³ (maximum achievable).

Subchronic toxicity:

NOEL (1 y) for dogs c. 6 mg/kg b.w. daily; (2 y) for mice 60 mg/kg b.w. daily; (2 y) for rats 7.2 mg/kg b.w.. daily.

12. ECOLOGICAL INFORMATION

Birds Acute oral LD₅₀ for bobwhite quail >2250 mg/kg. Dietary LC₅₀ (8 d) for bobwhite quail and mallard ducks >10 000 mg/kg daily.

Fish LC₅₀ (96 h) for rainbow trout >829, bluegill sunfish >552 µg/l.

Daphnia LC₅₀ (48 h) >658 µg/l.

Algae EC₅₀ (24–96 h) 3–10 µg/l.

Bees LD₅₀ (topical) >100 µg/bee.

Worms LC₅₀ >1000 mg/kg dry soil.



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13. DISPOSAL CONSIDERATION

Wastes resulting from the use of this product may be disposed on site by use according to the label or at an approved waste disposal facility. State and local authorities should be contacted to determine the current regulations.

The container may be disposed in a sanitary landfill or by incineration after completely emptying the bag into the application equipment. State and local authorities should be contacted to determine the current regulations.

14. TRANSPORT INFORMATION

Hazardous class: 9

UN number: 3077

Packing group: III

MDG Marine pollutant: Yes

Proper shipping name: Environmentally Hazardous Substances, Liquid N.O.S. (Prodiamine)

15. REGULATORY INFORMATION

Follow local and international laws and regulations.

16. OTHER INFORMATION

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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 --