



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: Oct. 10, 2022

MATERIAL SAFETY DATA SHEET OF

DINOTEFURAN 98% TC

1. IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Supplier: Shanghai Bosman Industrial Co., Ltd

Add: RM. 907, No. 1611, North Sichuan Road, Hongkou, Shanghai R.P. China

Tel: + 86 21 63065878

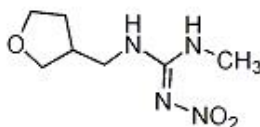
Fax: + 86 21 63065878

Product name: Dinotefuran 98% TC

2. COMPOSITION/INFORMATION ON INGREDIENTS

Active Ingredients: Dinotefuran

Structural Formula:



Composition:

INGREDIENT	CAS NO	PROPORTION
Dinotefuran	165252-70-0	98% Min
Others	Not available	10% Max

Other ingredients determined not to be hazardous

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Caution: Harmful if swallowed or absorbed through skin. Powder material may form explosive dust-air mixture, Avoid breathing dust or vapors. Avoid contact with eyes, skin and clothing. Causes moderate eye irritation. Keep out of reach of children

POTENTIAL HEALTH EFFECTS

Acute Toxicity (Primary Routes of Exposure): None known

Acute Eye Contact: This product can cause brief and/or minor eye irritation. The expected adverse health effects resulting from an exposure may include redness and possible swelling.

Acute Skin Contact: This product can cause brief and/or minor irritation. The expected adverse health effects resulting from an exposure may include redness and possibly some minor swelling. This product is slightly toxic when absorbed through the skin. This product is not expected to cause allergic skin reactions.



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Acute Ingestion: This product is slightly toxic when ingested.

Acute Inhalation: This product is minimally toxic when inhaled.

Chronic Toxicity (including cancer): No specific target organ(s) could be identified in chronic studies conducted with Dinotefuran in rats, mice and dogs, nor did it produce tumors in rats or mice.

Developmental Toxicity (birth defects): No developmental toxicity was produced in animals exposed to Dinotefuran Technical, even at doses that were toxic to the pregnant animal.

Reproductive Toxicity: Dinotefuran Technical was tested in a two-generation rat reproduction study. Reduced preweaning weight gain was observed only at a dose that also produced systemic maternal toxicity.

Signs and Symptoms of Systemic Effects: No significant signs of systemic toxicity were observed in animals exposed to very high oral, dermal or inhalation dosages of Dinotefuran Technical.

Potentially Aggravated Medical Conditions: None known

For complete discussion of the toxicology data from which this evaluation was made, refer to Section 11. For Ecotox/Environmental Information, refer to Section 12. For Regulatory Information, refer to Section 15.

4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

Eye contact: 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.

Skin contact: 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.

Ingestion: Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

Inhalation: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Notes to physician: None

5. FIRE FIGHTING MEASURES

Suitable extinguishing agents: water spray, carbon dioxide, dry chemical powder or foam

Protective equipment: wear breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual fire hazard: emits toxic fumes such as carbon monoxide, etc.



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6. ACCIDENT RELEASE MEASURES

Personal precautions: See Section 8.

Environmental precautions: Remove all sources of ignition. Ventilate area of leak or spill. Clean-up personnel may require protection from inhalation of dust. Avoid runoff into storm sewers or other bodies of water.

Method for cleaning up:

Clean up spill immediately in a manner that does not disperse dust into the air and place in a chemical waste container. Wash area with soap and water. Pick up wash liquid with additional absorbent and place in a chemical waste container.

7. HANDLING AND STORAGE

Handling: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Storage: Keep pesticide in original container. Do not store or transport near food or feed. Do not contaminate food or feed. Do not put concentrate into food or drink containers. Do not dilute concentrate in food or drink containers. Store in a cool, dry place, out of direct sunlight.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes: Do not get this material in your eyes. Eye contact can be avoided by wearing protective eyewear.

Respiratory protection: Use this material only in well ventilated areas. If operating conditions result in airborne concentrations of this material, the use of an approved respirator is recommended.

Skin protection: Avoid contact with skin or clothing. Skin contact should be minimized by wearing protective clothing including gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White powder

Volatility: $<1.7 \times 10^{-3}$ mPa (30 °C)

Flammability: Non-flammable

Melting point: 107.5°C

Oxidizing Properties: No oxidizing properties.

10. STABILITY AND REACTIVITY

Chemical stability: Stable under normal conditions.

Hazardous decomposition: Carbon oxides, nitrogen oxides sulfur oxides, crystalline silica

Incompatible materials: Strong oxidizers, heat and sources of ignition

Oxidation/reduction properties: Not an oxidizing or reducing agent.



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Hazardous reactions: Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Acute oral toxicity LD₅₀ for male rats 2804, female rats 2000

Acute skin toxicity LD₅₀ for male rats 2804, female rats >2000

Acute inhalation on for rats: LC₅₀ (4 h) for rats >4.09 mg/l.

Acute eye irritation for rabbit: slight irritation

Acute skin irritation for rabbit: slight irritation

Acute skin sensitization on Guinea pigs: Not a skin sensitiser

Chronic toxicity:

NOAEL (1 y) for male dogs 559, female dogs 22 mg/kg daily.

Other toxicity:

Not a mutagen, neurotoxin, carcinogen, teratogen or reproductive toxin.

12. ECOLOGICAL INFORMATION

Birds Acute oral LD₅₀ for Japanese quail >2000 mg/kg. LC₅₀ (5 d) for mallard ducks >5000 ppm (997.9 mg/kg daily), Japanese quail >5000 ppm (1301 mg/kg daily).

Fish LC₅₀ (96 h) for carp, rainbow trout and bluegill sunfish >100 ppm.

Daphnia EC₅₀ (48 h) >1000 ppm.

Algae EbC₅₀ (72 h) for Pseudokirchneriella subcapitata >100 mg/l.

Other aquatic spp. LC₅₀ (48 h) for crayfish 4.84 ppm. LC₅₀ (96 h) for eastern oysters 141, mysid shrimps 0.79 ppm. EC₅₀ for Lemna gibba >110 ppm.

Bees Highly toxic to honeybees; LD₅₀ (oral) 0.023 µg/bee; (contact) 0.047 µg/bee (EPA Fact Sheet).

Other beneficial spp. Highly toxic to silkworms.

13. DISPOSAL CONSIDERATION

Product: Offer surplus and non-recyclable solutions to a licensed disposal company. Dispose complying with local regulations.

Contaminated packaging: Empty the container completely before disposal. Dispose complying with local regulations.

14. TRANSPORT INFORMATION

ICAO/IATA shipping name:

UN Number: 3077



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UN Proper shipping name: Environmentally Hazardous Substance, Solid, N.O.S. (Dinotefuran)

Transport hazard class: 9

Packing group: III

15. REGULATORY INFORMATION

EUROPEAN UNION

LABELING ACCODING TO EC DIRECTIVE:

Hazards Symbols: N Dangerous to the environment

Risk Phrases: R57- Toxic to bees.

Safety Phrases: S25- Avoid contact with eyes.

S37- Wear suitable gloves.

S61- Avoid release to the environment. Refer to special instructions/Safety data sheets.

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