



MATERIAL SAFETY DATA SHEET

1. Chemical Product Identification

Product Name: Lufenuron

Manufactory: Nanjing Fengshan Chemical Co., Ltd.

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2. Composition / Information on Ingredients

Composition	CAS No.	Content %
Lufenuron	103055-07-8	98.0
Other ingredients	—	2.0

3. Hazards Identification

Eye: Causes eye irritation.

Skin: Causes skin irritation. Harmful if absorbed through the skin.

Ingestion: May cause irritation of the digestive tract. Toxic if swallowed.

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation

4. First Aid Measures

Eye: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid. Flush skin with plenty of water and soap for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops and persists.

Ingestion: Get medical aid immediately. Wash mouth out with water.

Inhalation: Remove from exposure and move to fresh air immediately. If not breath, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

5. Fire-Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus, (approved or equivalent) and protective clothing to prevent contact with skin and eyes.



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Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or appropriate foam.

6. Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container.

7. Handling and Storage

Handling: Avoid breathing dust, vapor, mist, or gas. Keep container tightly closed. Avoid contact with skin and eyes. Wash thoroughly after handling. Mechanical exhaust required.

Storage: Store in a cool, dry place. Store in a tightly closed container.

8. Personal Protection

Eye Protection: Goggles or face-shield

Hand Protection: Chemical-resistant gloves

Body Protection: Heavy duty cotton or synthetic fabric working clothes (e.g. overalls).

Precautionary measures after work: Wash thoroughly (shower, bathe, wash hair). Change clothing. Thoroughly clean protective gear. Thoroughly clean contaminated equipment with soap or soda solution.

9. Physical and Chemical Properties

Form: Crystalline powder

Color: White

Odor: Not available

Specific Gravity/Density: Not available

Water Solubility: Not available

Melting Point: 168.7-169.4°C

Vapor Pressure: $<4 \times 10^{-3}$ mPa (25 °C)

10. Stability and Reactivity

Stability: Stable under normal temperatures and pressures.

Hazardous Polymerization: Has not been reported.



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Conditions to Avoid: Incompatible materials.

11. Toxicological Information

Acute Toxicity/Irritation Studies (Finished Product)

Ingestion: Oral (LD50 Rat): Acute oral LD50 for rats >2000 mg/kg.

Dermal: Dermal (LD50 Rat): Acute percutaneous LD50 for rats >2000 mg/kg.

Inhalation: Inhalation (LD50 Rat): LC50 (4 h, 20 °C) for rats >2.35 mg/l air.

Skin Irritation: Non-irritating to skin (rabbits)

Eye Irritation: Non-sensitizing to skin (guinea pigs).

12. Ecological and Ecotoxicological Information

Birds Acute oral LD50 for bobwhite quail and mallard ducks >2000 mg/kg. Dietary LC50 (8 d) for bobwhite quail and mallard ducks >5200 mg/kg.

Fish LC50 (96 h) for rainbow trout >73, carp >63, bluegill sunfish >29, catfish >45 mg/l.

13. Disposal Considerations

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.

14. Transport Information

HazardClass: 9

UN Number: 3077

Packing Group: III

15. Regulatory Information

Not available

16. Other Information

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure



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that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produce formulations containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.

FengshanChem