

## **MATERIAL SAFETY DATA SHEET OF**

### **LUFENURON 97% TC**

#### **1. IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY**

**Product name:** Lufenuron 97% TC

**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

**Recommended use:** Insecticide

**Formulation:** Technical grade (TC)

#### **2. HAZARDS IDENTIFICATION**

Classification according to Regulation (EC) No 1272/2008

Skin sensitisation (Category 1), H317

Acute aquatic toxicity (Category 1), H400

Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

##### **Label elements**

Labelling according Regulation (EC) No 1272/2008

##### **Pictogram**



Signal word Warning

##### **Hazard statement(s)**

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

##### **Precautionary statement(s)**



# 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

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P273 Avoid release to the environment.

P280 Wear protective gloves.

P501 Dispose of contents/ container to an approved waste disposal plant.

Supplemental Hazard Statements none

## 3.COMPOSITION/INFORMATION ON INGREDIENTS

### Other ingredients determined not to be hazardous

| INGREDIENT        | CAS NO      | PROPORTION(% w/w) |
|-------------------|-------------|-------------------|
| Lufenuron         | 103055-07-8 | 97% min.          |
| Other ingredients | --          | Up to 100%        |

## 4. FIRST AID MEASURES

### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

### In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

### In case of eye contact

Flush eyes with water as a precaution.

### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Advice to Doctor:** No specific antidote. Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

### Extinguishing media

### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special hazards arising from the substance or mixture**

Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride gas, Hydrogen fluoride

**Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**6. ACCIDENT RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas.

Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**Methods and materials for containment and cleaning up**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

**Conditions for safe storage, including any incompatibilities**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure controls**

**Appropriate engineering controls**

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

**Personal protective equipment**

**Eye/face protection**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands.

**Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use (EN 143) respirator cartridges as a backup to engineering controls. If th full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Form :** Powder

**Color :** White

**Odor :** NA

**pH :** 5.0-8.0

**Corrosive:** Non corrosive

**Oxidisation:** Not an oxidiser

**10. STABILITY AND REACTIVITY**

**Reactivity**

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No data available

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

No data available

**Conditions to avoid**

No data available

**Incompatible materials**

Strong oxidizing agents

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NO<sub>x</sub>),

Hydrogen chloride gas, Hydrogen fluoride

**11. TOXICOLOGICAL**

**Acute toxicity**

Oral Acute oral LD<sub>50</sub> for rats >2000 mg/kg. Skin and eye Acute percutaneous LD<sub>50</sub> for rats >2000 mg/kg. Non-irritating to eyes and skin (rabbits). Moderate skin sensitisation potential (M&K). Inhalation LC<sub>50</sub> (4 h, 20 °C) for rats >2.35 mg/l air.

**Chronic toxicity**

NOEL (2 y) for rats 2.0 mg/kg b.w. daily.

**12. ECOLOGICAL INFORMATION**

**Birds** Acute oral LD<sub>50</sub> for bobwhite quail and mallard ducks >2000 mg/kg. Dietary LC<sub>50</sub> (8 d) for bobwhite quail and mallard ducks >5200 mg/kg diet.

**Fish** LC<sub>50</sub> (96 h) for rainbow trout >73, carp >63, bluegill sunfish >29, catfish >45 mg/l.

**Daphnia** Toxic to Daphnia; EC<sub>50</sub> (48 h) 1.1 µg/l.

**Algae** EC<sub>50</sub> (72 h) for green algae 10 mg/l.

**Bees** LC<sub>50</sub> (oral) >197 µg/bee; LD<sub>50</sub> (topical) >200 µg/bee.

**Worms** Acute LC<sub>50</sub> (14 d) >1000 mg/kg.

**13. DISPOSAL CONSIDERATION**

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**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.

**Contaminated packaging**

Dispose of as unused product.

**14. TRANSPORT INFORMATION**

**DOT**

**UN number :** 3077

**Proper shipping name :** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Lufenuron)

**Class :** 9

**Packing group :** III

**IATA**

**UN number :** 3077

**Proper shipping name :** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Lufenuron)

**Class :** 9

**Packing group :** III

**IMDG**

**UN number :** 3077

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**Class :** 9

**Packing group :** III

**15. REGULATORY INFORMATION**

Follow all local, international decree, regulation and laws.



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## 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 --