

Version: 1.0 Issue date: Oct. 1, 2023

MATERIAL SAFETY DATA SHEET OF

TEFLUBENZURON 97% TC

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: Teflubenzuron 97% TC

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] Mixture/Substance: SDS EU 2015:

According to Regulation (EU) 2015/830

Acute Tox. 4 (Oral) H302

Aquatic Acute 1 H400 (M=1000)

Full text of H-phrases: see section 16

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



Signal word (CLP) : Warning

Hazard statements (CLP) : H302 - Harmful if swallowed

H400 - Very toxic to aquatic life

Precautionary statements (CLP) : P264 - Wash hands thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P273 - Avoid release to the environment

P301+P312 - IF SWALLOWED: Call a doctor, a POISON CENTER if you feel unwell

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P330 - Rinse mouth

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

EUH-statements : EUH401 - To avoid risks to human health and the environment, comply with the instructions for Use

2.3. Other hazards

Adverse physicochemical, human health and environmental effects: Very toxic to aquatic life. Harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formulation Type: Technical material (TC)

CHEMICAL NAME	CAS NO.	PERCENT
Teflubenzuron	83121-18-0	97% min
others	not available	Balance

4. FIRST AID MEASURES

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical advice/attention if you feel unwell.

Skin contact Take off contaminated clothing and shoes immediately. Wash off with soap and water. If symptoms persist, call a physician.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician or poison control center immediately.

Ingestion Rinse out mouth and give water in small sips to drink. Do NOT induce vomiting. Keep patient warm and at rest. Obtain medical attention. Never give anything by mouth to an unconscious person.

Notes to physician: Treat symptomatically. There is no specific antidote.

5. FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

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Unsuitable extinguishing media : Do not use a heavy water stream.

Special hazards arising from the substance or mixture

Fire hazard : Non flammable.

Explosion hazard : No direct explosion hazard.

Hazardous decomposition products in case of fire: Carbon oxides (CO, CO₂). Nitrogen oxides (NO_x).

Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

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

6. ACCIDENT RELEASE MEASURES

Personal precautions

Avoid contact with spilled product or contaminated surfaces. When dealing with a spillage do not eat, drink or smoke. Use personal protective equipment. Keep people away from and upwind of spill/leak.

Environmental precautions

Contain contaminated water and fire fighting water. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods for cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container.

7. HANDLING AND STORAGE

Handling: Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse.

Storage: Store in original container and out of the reach of children, preferably in a locked storage area. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from direct sunlight.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

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No additional information available

Exposure controls

Appropriate engineering controls: Ensure good ventilation of the work station.

Personal protective equipment: Protective clothing. Gloves. Safety glasses. Insufficient ventilation: wear respiratory protection.

Hand protection: Wear suitable gloves resistant to chemical penetration. Chemical resistant gloves (according to European standard NF EN 374 or equivalent). Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Since the product consists of several substances, it is possible to estimate the durability of the glove material beforehand and it therefore needs to be tested before use. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Safety glasses

Skin and body protection: Wear suitable protective clothing

Respiratory protection: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White crystal

Odour: NA

Solubility in water: In water 0.07 mg/l (25 ° C).

pH: 5.0-8.0

Explosion properties : Not explosive.

Melting point : NA

Freezing point : NA

Boiling point : NA

10. STABILITY AND REACTIVITY

Reactivity: Stable under normal conditions of use.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: No dangerous reactions known under normal conditions of use.

Conditions to avoid: Extremely high or low temperatures. Keep out of direct sunlight.

Incompatible materials: Oxidizing agent. Alkali.

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Hazardous decomposition products: Combustion generates : Carbon oxides (CO, CO₂). Nitrogen oxides (NO_x).

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

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

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

Inhalation LC₅₀ (4 h) for rats >5058 mg dust/m³.

Not irritant to skin or eyes of rabbits.

Non-sensitising to skin.

Chronic toxicity:

NOEL (90 d) for rats 8 mg/kg b.w. daily, for dogs 4.1 mg/kg b.w. daily.

Other

Non-teratogenic. Non-mutagenic in Ames, mammalian cell, and micronucleus assays.

12. ECOLOGICAL INFORMATION

Birds Acute oral LD₅₀ for quail >2250 mg/kg. Dietary LC₅₀ for quail and ducks >5000 mg/kg.

Fish LC₅₀ (96 h) for trout >4, carp >24 mg/l.

Daphnia LC₅₀ (28 d) 0.001 mg/l.

Bees Non-toxic to bees when used at recommended rates; LD₅₀ (topical) >100 μg/bee.

Other beneficial spp. Low toxicity to predatory and parasitic arthropods.

13. DISPOSAL CONSIDERATION

Product : Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging : Empty remaining contents. Triple rinse containers. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

14. TRANSPORT INFORMATION

ADR/RID:

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UN number: 3077

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Teflubenzuron)

Class(es): 9

Packaging: III

IMDG:

UN number: 3077

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Teflubenzuron)

Class(es): 9

Packaging: III

IATA-DGR

UN number: 3077

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Teflubenzuron)

Class(es): 9

Packaging: III

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 this company.

-- END OF MSDS --