

MATERIAL SAFETY DATA SHEET OF TETRAMETHRIN 92% 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: Tetramethrin 92% TC

2. COMPOSITION/INFORMATION ON INGREDIENTS

Formulation Type: Technical material (TC)

Composition:

INGREDIENT	CAS NO	PROPORTION
Tetramethrin	7696 - 12 - 0	92%
other	Not available	Balance

Other ingredients determined not to be hazardous

3. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

Label elements

Pictogram



Signal word

Hazard statements Warning

Precautionary statements

Issue date: Oct. 20, 2021 Version: 1.0

H400+H410 Very toxic to aquatic life with long lasting effects.

P273 Avoid release to the environment.

P391 Collect spillage.

P501 Dispose of contents/ container in accordance with national regulations.

Other hazards

This product does not contain any substances classified as PBT or vPvB.

4. FIRST AID MEASURES

General information: If poisoning occurs, contact a doctor or Poisons Information Centre

If inhalation: Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if symptoms are severe or persist.

If ingestion: Rinse mouth thoroughly with water. Get medical advice/attention if you feel unwell. Do not induce vomiting unless under the direction of medical personnel.

If skin Contact: Rinse with water.

If eye contact: Rinse with water. Get medical attention if any discomfort continues.

Note to physician: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flammable limits: Not determined.

Autoignition temperature: Not determined.

Hazardous combustion products: Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

Extinguishing media: The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

Fire-fighting instructions: Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

Protective equipment for firefighters: Wear self-contained breathing apparatus (pressure-demand MSHA/NIOSH approved or equivalent) and full protective gear.

6. ACCIDENT RELEASE MEASURES

Personal precautions: Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk.

Environmental precautions: Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment.

Method for cleaning up: Shovel the spill into drums. Recover the product by sweeping up or vacuuming without raising dust. Collect spilled material and waste in sealable open-top type containers for disposal. Dispose of only with local, state and federal regulations.

7. HANDLING AND STORAGE

Storage: Do not store this material near food, feed or drinking water. Store in a well ventilated area. Store in a dry area. Do not allow this product to become wet or overheated in storage; decomposition, impaired activity or fire may result.

Handling: Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls: Provide general and/or local exhaust ventilation to control airborne levels below the exposure guideline.

Personal protective equipment (PPE):

Respiratory protection: Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components.

Skin protection: Minimize skin contamination by following good industrial hygiene practice. Wearing rubber gloves is recommended. Wash hands and contaminated skin thoroughly after handling.

Eye protection: Where there is potential for eye contact, wear chemical goggles and have eye flushing equipment available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White to light yellow powder to small lumps

Odor: NA

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pH: NA

Solubility in water: In water 1.83 mg/l (25 ° C).

Flash point: Not flammable

10. STABILITY AND REACTIVITY

Chemical stability: Stable under normal conditions.

Conditions to avoid: Keep away from heat, sparks and open flame.

Hazardous decomposition products: Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

Incompatible materials: No specific material or group of materials is likely to react with the product to produce a hazardous situation.

Hazardous reactions: Strong acids. Strong alkalis. Strong oxidising agents.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

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

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

Irritation: Non-irritant to skin and eye.

Inhalation : LC50 (4 h) for rats >2.73 mg/l air.

Chronic toxicity:

NOEL In 13 w feeding trials, dogs receiving 5000 mg/kg diet showed no ill-effects. In 6 mo feeding trials, no-effect level for rats was 1500 mg/kg diet.

Other

No evidence of oncogenicity.

12. ECOLOGICAL INFORMATION

Birds Acute oral LD50 for bobwhite quail >2250 mg/kg. Dietary LC50 for bobwhite quail and mallard ducks >5620 ppm.

Fish LC50 (96 h) for rainbow trout 3.7, bluegill sunfish 16 µ g/l.

Daphnia EC50 (48 h) 0.11 mg/l.

Bees Toxic to bees.

13. DISPOSAL CONSIDERATION

Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

14. TRANSPORT INFORMATION

UN Number: 3077

UN Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (Copper hydroxide)

Transport hazard class: 9

Packing group: III

Marine pollutant: Yes

15. REGULATORY INFORMATION

Follow all 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 --