



SHANGHAI BOSMAN INDUSTRIAL CO., LTD.

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MATERIAL SAFETY DATA SHEET OF

TRANSFLUTHRIN 95% TC

1. IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product name: Transfluthrin 95% TC

Recommended use: Insecticide

Supplier: Shanghai Bosman Industrial Co., Ltd

Street address: No. 1611, North Sichuan Road, Hongkou, Shanghai R.P. China

Tel: + 86 21 63065878

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Formulation: Technical grade (TC)

Other ingredients determined not to be hazardous

INGREDIENT	CAS NO	PROPORTION(%, w/w)
Transfluthrin	118712-89-3	95
Other ingredients	--	Up to 100%

3. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Skin irritation (Category 2), H315

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)

H315 Causes skin irritation.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P273 Avoid release to the environment.

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

Supplemental Hazard Statements none

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.

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, Hydrogen chloride gas, Hydrogen fluoride

Carbon oxides, 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 3.

Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Store under inert gas. Sensitive to carbon dioxide.

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. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

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 to off-white

Odor : NA

pH : NA

Corrosive: Non corrosive

Oxidisation: Not an oxidiser

10. STABILITY AND REACTIVITY

Reactivity:

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, Hydrogen chloride gas, Hydrogen fluoride

11. TOXICOLOGICAL

Acute toxicity

Oral Acute oral LD50 for rats >5000 mg/kg. Skin and eye Acute percutaneous LD50 for rabbits >5000 mg/kg. Non-irritating to skin; slightly irritating to eyes (rabbits). Inhalation LC50 (4 h) for rats >4.8 mg/l.

Chronic toxicity

NOEL In 2 y feeding trials in rats, the only effect at the low dose of 813 mg/kg in diet was the formation of renal calculi. This has been shown to be reversible in a 90 d study in dogs, and a NOEL established at 2.4 mg/kg daily. NOEL in mice was 73 mg/kg daily.

Other toxicity

Not carcinogenic, teratogenic or mutagenic.

12. ECOLOGICAL INFORMATION

Birds Acute oral LD50 for bobwhite quail >2000 mg/kg. Dietary LC50 (5 d) for bobwhite quail and mallard ducks >5000 mg/kg.

Fish LC50 (96 h) for young rainbow trout 0.088, young bluegill sunfish 0.089 mg/l.

Daphnia LC50 (48 h) 0.245 mg/l; NOEC (21 d) 0.051 mg/l.

Algae EC50 (7 d) for *Selenastrum capricornutum* 12.2 mg/l; NOEC 5.37 mg/l.

Other aquatic spp. LD50 (96 h) for grass shrimps (*Palaemonetes* sp.) 0.64 mg/l.

Bees LD50 (oral and contact) >100 µg/bee.

Worms LC50 (14 d) >1000 mg/kg dry soil; NOEC (reduced bodyweight) <171 mg/kg.

Environment

Adsorbed by the soil, and is extremely resistant to leaching. Little lateral movement in the soil. Metabolism involves dealkylation of the amino group, reduction of the nitro group to an amino group, partial oxidation of the trifluoromethyl group to a carboxy group, and subsequent degradation to smaller fragments (T. Golab et al., J. Agric. Food Chem., 1979, 27, 163); DT50 57–126 d. Duration of residual activity in soil is 6–8 mo. In laboratory studies, degradation was more rapid under anaerobic conditions, e.g. for loam soil, DT50 (anaerobic) 25–59 d, DT50 (aerobic) 116–201 d. Soil photolysis DT50 41 d; aqueous photolysis DT50 0.8 h. Koc 4400–40 000; Kd ranges from 3.75 (0.01% o.m., pH 6.6) to 639 (16.9% o.m., pH 6.8) (H. J. Pedersen et al., Pestic. Sci., 1995, 44, 131).

13. DISPOSAL CONSIDERATION

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. (Transfluthrin)

Class : 9

Packing group : III

IATA

UN number : 3077



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Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
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Class : 9

Packing group : III

IMDG

UN number : 3077

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

Class : 9

Packing group : III

15. REGULATORY INFORMATION

Follow all local, international decree, regulation and laws.

16. OTHER INFORMATION

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 --