Material Safety Data Sheet

Tribenuron-methyl 10% WP

1. Chemical Product / Company Identification

Product name: Tribenuron-methyl 10% WP
Active Ingredient: Tribenuron-methyl
Manufacturer: Shanghai Tenglong Agrochem Co., Ltd.
Add: Yangpu building 24B, No.2005, Huangxing Road, Yangpu Shanghai
Phone Numbers: Tel: 86-21 5506 3225
Fax: 86-21-5506 3699

2. Composition/Information on Ingredients

Components	CAS Number	%(w/w)
Tribenuron-methyl	101200-48-0	10%
Other ingredients	-	to 100%

3. Hazard identification

Physical/chemical hazards: The substance can be absorbed into the body by inhalation. May cause sensitization by skin contact.
Environmental hazards: Very toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment.
Inhalation: Harmful.

4. First Aid Measures

If inhaled: Move person to fresh air. If person is not breathing, call 120 or an ambulance, seek medical attention.
If ingestion: If individual is conscious, wash out mouth with water, seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.
If on skin: Remove contaminated clothing. Wash skin and hair thoroughly; do two soap and water washings. Wash skin and contained clothes with soap and copious amounts of water.
If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

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5. Fire Fighting Measures

Extinguishing Media: foam, water spray, dry chemical and carbon dioxide.
Special Fire Fighting Procedures: None.
Hazardous thermal decomposition and combustion products: Could cause fire in high temperatures. When heated to decomposition material emits toxic fumes (NOx).
Protection of fire-fighters: Fire-fighters must wear self contained breathing equipment and impervious clothing.

6. Accidental Release Measures

Personal Precautions: Wear appropriate protective gear for the situation. The product is harmful if inhaled or swallowed. Will irritate the eyes, nose, throat and skin. Keep people and animals away and upwind. Use rubber gloves and eye/face protection and use respirator.
Environmental Precautions: prevent the contamination of the floor and of beds of water.
Cleaning methods: Sweep up with sand or vermiculite and place into appropriate container for disposal. Ventilate and wash spill area and wash it with water.

7. Handling and Storage

Handling: All chemicals should be considered hazardous. Avoid direct physical contact. Use appropriate, approved safety equipment. Keep out of reach of children. Avoid contact with the eyes, skin and clothing and avoid inhalation of product or spray mist. If in eyes, wash it immediately with water. After handling and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. Do not contaminate food or use on household tanks.
Storage: Store in the closed, original container in a dry, cool, well-ventilated area, room temperatures. Keep away from heat and sources of ignition. Store in locked room or place away from children, animals, food, animal feed, seed and fertilizers.

8. Exposure Controls/Personal Protection

Respiratory Protection: Use NIOSH/MSHA approved respirator appropriate for exposure of concern.
Eye Protection: Chemical goggles.
Protective Clothing: Rubber gloves, respirator, boots, long sleeved shirt or jacket, long pants.

9. Physical and Chemical Properties

Active ingredient: Tribenuron-methyl
Content: 10%
Chemical formula: $C_{15}H_{17}N_5O_6S$
Molecular weight: 395.4 g/mol
Appearance: White powder

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10. Stability and Reactivity

Conditions To Avoid: Heat and ignition.
Stability: Stable under normal conditions.
Polymerization: Will not occur.
Hazardous decomposition products: toxic gases, such as Hydrogen fluoride, Nitrogenoxides Carbon monoxide, Carbon dioxide.

11. Toxicological Information

Acute toxicity
Rat:
Oral: LD_{50} ＞5000 mg/kg bw both male & female rat. Toxicity Category IV
Dermal: LD_{50} ＞5000 mg/kg bw both male & female rat. Toxicity Category IV
Inhalation: LC_{50} = 6.0 mg/L both male & female rat. Toxicity Category III

Rabbit:
Eye irritation: Ocular non-irritant
Skin irritation: Dermal non-irritant

Guinea Pig:
Sensitization: positive to female and negative to male.

12. Ecological Information

Fish: Bluegill sunfish LC_{50} (98h) ≥ 1000 mg/l
Aquatic organisms: Daphnia magna LC_{50} (48h) >894.0 mg/l NOEC = 894.0 mg/l
Birds: Bobwhite quail LD_{50}≥2250 mg ai/kg bw NOEL≤292 mg ai/kg bw
Bees:
Contact: LD_{50} and NOEL≥98.4 μg a.s. /bee
Oral: LD_{50} and NOEL≥ 9.1 μg a.s. /bee

13. Disposal Considerations

All chemical waste is considered acutely toxic. Dispose of in an approved manner (consult local authority) only as a last resort. Otherwise, apply according to label instructions. Consult label and Directions for Use.

14. Transportation Information

EU Classification:
Symbol: Xi R: 43 S: (2-)22-24-37

15. Regulatory Information

There is no special information for it.

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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 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. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

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