



## MATERIAL SAFETY DATA SHEET

### Manufacturer/information service:

ZHEJIANG RAYFULL CHEMICALS CO.,LTD

ADD: NO.52 PUCHANG ROAD, PUZHOU INDUSTRIAL PARK, LONGWAN DISTRICT,  
WENZHOU ZHEJIANG P.R. CHINA

Tel: +86-577-88905587

Fax: +86-577-88905567

Email: info@rayfull.com

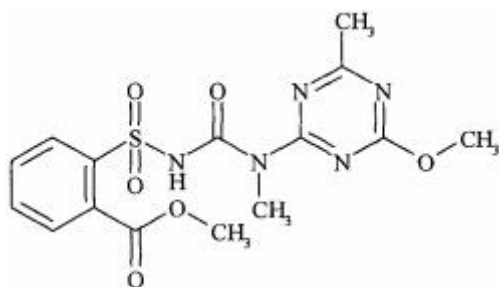
sales@rayfull.com

### 1. Chemical Product Identification

Product Name: Tribenuron-methyl 75% WDG

Molecular Formula: C<sub>15</sub>H<sub>17</sub>N<sub>5</sub>O<sub>6</sub>S

Structural Formula:



Molecular Weight: 395.4

Chemical Name: methyl2-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)-methylcarbamoyl] sulfamoyl]benzoate

Form: Columnar particles

Color: white

Odor : Slightly pungent

CAS No: 101200-48-0

### 2. Composition / Information On Ingredients

Composition	CAS No.	Content
Tribenuron-methyl	101200-48-0	75%
others	---	25%



---

### 3. Hazards Identification

May cause sensitization by skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 4. First Aid Measures

General advice: Never give anything by mouth to an unconscious person.

Inhalation: Move to fresh air. Oxygen or artificial respiration if needed. Consult a physician.

Skin contact: Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.

Eye contact: Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing. Consult a physician.

Ingestion: Drink 1 or 2 glasses of water. Do not induce vomiting without medical advice. Consult a physician.

### 5. Fire-Fighting Measures

Suitable extinguishing media: water spray, foam, dry chemical, carbon dioxide (CO<sub>2</sub>),  
Extinguishing media which must not be used for safety reasons: high volume water jet, (contamination risk).

Special protective equipment for fire-fighters: In the event of fire, wear self-contained breathing apparatus.

Further information: (on small fires) If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Cool containers/ tanks with spray water.

### 6. Accidental Release Measures

Personal precautions: Wear personal protective equipment.

Environmental precautions: Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.

Methods for cleaning up: Clean up promptly by scoop or vacuum. Use approved industrial vacuum cleaner for removal. Shovel into suitable container for disposal. If spill area is on ground near valuable plants or trees, remove 5 cm of top soil after initial cleanup

### 7. Handling And Storage



Handling: Advice on safe handling: Provide appropriate exhaust ventilation at places where dust is formed. Wear personal protective equipment.

Advice on protection against fire and explosion: Keep away from heat and sources of Ignition.

Storage: Requirements for storage areas and containers: Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a place accessible by authorized persons only. Keep away from food, drink and animal feeding stuffs. Keep out of reach of children.

Advice on common storage: No materials to be specially mentioned.

## 8. Exposure Controls / Personal Protection

Respiratory protection: Half mask with a particle filter P2

Hand protection: Material: nitrile rubber

Glove thickness: 0,4 - 0,7 mm

Wearing time: > 480 min

Do not wear cotton or leather gloves. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Eye protection: safety glasses with side-shields

Skin and body protection: lightweight protective clothing

Hygiene measures: Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke. For environmental protection remove and wash all contaminated protective equipment before re-use. Dispose of rinse water in accordance with local and national regulations.

Protective measures: All chemical protective clothing should be visually inspected prior to use. Clothing and gloves should be replaced in case of chemical or physical damage or if contaminated.

## 9. Physical And Chemical Properties

Appearance: White columnar particles

Water content:  $\leq 3.0\%$

Suspensibility:  $\geq 80\%$

Wet sieve test (325mesh):  $\geq 98\%$

PH: 6.0-9.0



---

Disintegration time: 120s

Persistent foam stability(1minute): <60ml

Melting point: 141 °C

Dissociation Constant: pKa value = 4.7

## 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 oral LD50 for rat: >5000 a.i.mg/kg.

Acute dermal LD50 for rat: >5000 a.i.mg/kg.

Inhalation LC50 (4 h) for rat: >6.0 a.i.mg/L.

Skin Irritation: Non-irritating to skin (rabbits).

Eye Irritation: Non-irritating to eye (rabbits).

Skin Sensitization: Mildly sensitising to skin (guinea pigs).

## 12. Ecological And Ecotoxicological Information

Effect on birds: low toxicity to birds, acute oral LD50 for Bobwhite quail is >2250 a.i.mg/kg.

Effect on fish: low toxicity to fish, acute 96 hour LC50 for Rainbow trout is 738 a.i.mg/L.

Effect on aquatic invertebrates: low toxicity to aquatic invertebrates, acute 48 hour EC50 for Daphnia magna is 894 a.i.mg/L.

Effect on algae: moderate toxicity to algae, acute 120 hour EC50 for Raphidocelis subcapitata is 0.11 a.i.mg/L.

Effect on honeybees: moderate toxicity to honeybees, oral acute 48 hour LD50 is >9.1 a.i.µg/bee.

Effect on earthworms: low toxicity to earthworms, acute 14 day LC50 for Eisenia foetida is >1000 a.i.mg/kg.

## 13. Disposal Considerations



# ZHEJIANG RAYFULL CHEMICALS CO., LTD

Tel: +86-577-88905587,88908857

Fax: +86-577-88905567

EMAIL: info@rayfull.com sales@rayfull.com

---

Disposal: When not empty dispose of this container at hazardous or special waste collection point. Burn in a chemical incinerator equipped with an afterburner and a scrubber.

Attention: national and/or local laws and regulations may preclude the use of this method.

Prevent entry to sewers and public waters. Avoid release to the environment.

Waste-disposal procedures: Dispose in a safe manner in accordance with local/national regulations

## **14. Transport Information**

Not applicable

## **15. Regulatory Information**

Not applicable

## **16. Other Information**

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produce formulations containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.