



## MATERIAL SAFETY DATA SHEET

### Manufacturer/information service:

ZHEJIANG RAYFULL CHEMICALS CO.,LTD

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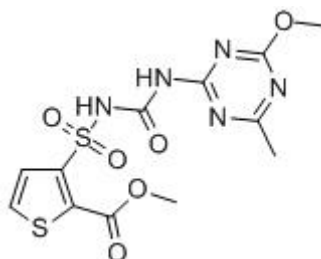
### 1. Chemical Product Identification

Product Name: Thifensulfuron-methyl 75% WDG

Molecular Formula: C<sub>12</sub>H<sub>13</sub>N<sub>5</sub>O<sub>6</sub>S<sub>2</sub>

Molecular Weight: 387.39

Structural Formula:



Chemical Name: methyl 3-(4-methoxy-6-methyl-1,3,5-triazin-2-ylcarbamoylsulfamoyl) thiophene-2-carboxylate

Form: Granular

Colour: Off-white

CAS No.: 79277-27-3

### 2. Composition / Information On Ingredients

Composition	Chemical name	Content
Active ingredient	Thifensulfuron-methyl	75%
Other ingredient	---	25%



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### 3. Hazards Identification

May be harmful if ingested, inhaled, or absorbed through the skin. May cause irritation. To the best of our knowledge, the toxicological properties of this compound have not been fully investigated. Exercise appropriate precautions to prevent opportunities for inhalation, and to prevent direct contact with skin and eyes. All uncharacterized chemicals should be treated as suspected toxins.

### 4. First Aid Measures

**Skin contact:** Take off all contaminated clothing immediately. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**Eye contact:** No specific intervention is indicated as the compound is not likely to be hazardous. Consult a physician if necessary.

**Inhalation:** No specific intervention is indicated as the compound is not likely to be hazardous. Consult a physician if necessary.

**Ingestion:** No specific intervention is indicated as the compound is not likely to be hazardous. Consult a physician if necessary.

**General advice:** Never give anything by mouth to an unconscious person. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

### 5. Fire-Fighting Measures

**Fire and Explosion Hazard:** Under severe dusting conditions, this material may form explosive mixtures in air.

**Suitable extinguishing media:** Water spray, Dry chemical, Foam, Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media:** High volume water jet, (contamination risk).

**Firefighting Instructions:** Wear full protective clothing and self-contained breathing apparatus. (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 water spray. Do not allow run-off from fire fighting to enter drains or water courses.

### 6. Accidental Release Measures

**Environmental Protection Measures following Accidents:** Do not contaminate waters and



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sewers. Collect product in containers for safe disposal. Dampen solid material carefully to prevent it being blown away. Collect material in specially marked, tightly closing containers. Spilled product cannot be used further and must be disposed of, If safe disposal is not possible, contact the manufacture, the dealer or the local representative.

## 7. Handling And Storage

Handling (Personnel): Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing/PPE immediately if material gets inside. Wash thoroughly and put on clean clothing. Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Storage: Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in original container. Store in a cool, dry place. Keep out of the reach of children.

## 8. Exposure Controls/personal protection

Engineering Controls: Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures: general area dilution/exhaust ventilation.

Eye/Face Protection: Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate equipment should be selected for the particular use intended for this material. Eye contact should be prevented through use of chemical safety glasses with side shields or splash proof goggles. An emergency eye wash must be readily accessible to the work area.

Body Protection: Applicators and other handlers must wear long-sleeved shirts, long pants, chemical resistant, waterproof gloves, and shoes plus socks during mixing, loading, applying and clean-up and repair activities. Where overhead exposure is possible, chemical resistant headgear should be worn.

## 9. Physical And Chemical Properties

Appearance: Off-white granular

Moisture:  $\leq 2.5\%$



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Suspensibility:  $\geq 85\%$

Wetting time:  $\leq 60s$

Fineness(through 75 $\mu m$  sieve):  $\geq 98.0\%$

## 10. Stability And Reactivity

Stability : Stable at normal temperatures and storage conditions.

Conditions to avoid : None reasonably foreseeable.

Incompatibility : No materials to be especially mentioned.

Hazardous reactions : Polymerization will not occur.

## 11. Toxicological Information

Acute oral LD50 for rats:  $>5000$  a.i.mg/kg

Acute dermal LD50 for rats:  $>2000$  a.i.mg/kg

Acute inhalation toxicity: LC50 (4h) for rats:  $>5.03$  a.i.mg/l

Skin irritation: Non-irritating to rabbits

Eye irritation: Non-irritating to rabbits

Skin Sensitization: Non-sensitive (Guinea Pig)

## 12. Ecological And Ecotoxicological Information

Effects on fish:

Acute 96 hour LC50 for Rainbow trout is  $>56.4$  a.i.mg/l.

Effects on Aquatic invertebrates:

Acute 48 hour EC50 for Daphnia magna:  $60.7$  a.i.mg/l.

Effects on birds:

Acute oral LD50 for Mallard is  $>2510$  a.i.mg/kg.

Effects on honeybees:

Oral acute 48 hour LD50 is  $>7.1$  a.i. $\mu g$ /bee; Contact acute 48 hour LD50 is  $>100$  a.i. $\mu g$ /bee

## 13. Disposal Considerations

Disposal Methods: Open dumping or burning of this material or its packaging is prohibited.

If spilled material cannot be disposed of by use according to label instructions, an acceptable method of disposal is to incinerate in accordance with local, state and national environmental laws, rules, standards and regulations. However, because acceptable methods of disposal may



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vary by location and regulatory requirements may change, the appropriate agencies should be contacted prior to disposal.

## **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.