

# Metsulfuron-methyl-MATERIAL SAFETY DATA SHEET

Manufacturer/information service:

ZHEJIANG RAYFULL CHEMICALS CO.,LTD

ADD: NO.113 PUXING 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

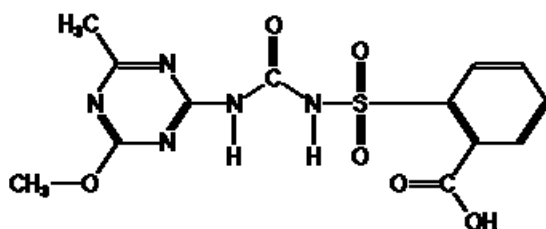
## 1. Chemical Product Identification

Product Name: Metsulfuron-methyl

Molecular Formula: C<sub>14</sub>H<sub>15</sub>N<sub>5</sub>O<sub>6</sub>S

Molecular Weight: 381.4

Structural Formula:



Chemical Name: Methyl

2-[3-(4-methoxy-6-methyl-1,3,5-triazin-2-yl)ureidosulphonyl]benzoate

Form: Powder

Color: Off-white to yellowish powder

Odor: Slight odor

CAS No: 74223-64-6

## 2. Composition / Information on Ingredients

Composition	CAS No.	Content %
Metsulfuron-methyl	1071-83-6	95.0
Other ingredients		5.0

## 3. Hazards Identification

Classification of risks of the chemical product:

## **Dangers for the health of the people**

Effects of one on acute exposure (short time): Information non-available

Inhalation: May be a mechanical irritant.

Contact with the skin: Repeated dermal contact with the active ingredient may cause skin irritation with itching, burning, redness, swelling or rash..

Contact with the eyes: May cause eye irritation with tearing, pain or blurred vision.

Effects of one on chronic exhibition (long time): Information non-available.

Dangers for the environment: To avoid that the product reaches the water obstacles

Dangers special are of the product: None if it is used suitably.

## **4. First Aid Measures**

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

**Eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.

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

**Inhalation:** No specific intervention is indicated as the product is not likely to be hazardous by inhalation. Consult a physician if necessary. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

Antidote: None reported.

## **5. Fire and Explosion Data**

**Extinguishing media:** Water Spray, Foam, Dry Chemical, CO<sub>2</sub>.

**Specific hazards:** Not available.

**Recommended protective clothing:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Will burn if involved in a fire. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas.

## **6. Accidental Release Measures**

**Personal precautions:** Ventilation, gloves, protective clothing, face shield. Avoid inhalation of spray mist.

**Environmental precautions:** Prevent spillage into the soil or aquatic environment.

**Spill procedures:** Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

**Disposal procedures:** Triple rinse containers and add residue to spray tank. Burn empty container if circumstances, especially wind direction permit, otherwise crush and bury in landfill.

## 7. Handling And Storage

### Handling:

void breathing vapors or mist. Avoid breathing dust. Avoid contact with eyes, skin, or clothing. Wash thoroughly after handling. Wash clothing after use. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.

### Storage:

Store product in original container only. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in a cool, dry place. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.

## 8. Exposure Controls / Personal Protection

**Engineering control measures:** Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

### Respiratory protection:

In case of spray: ventilation, local exhaust or breathing protection.

Eye Protection: Wear appropriate protective eyeglasses or chemical safety goggles.

Hand protection: Wear appropriate gloves to prevent skin exposure.

Hygiene measures: Thoroughly wash hands after work, before eating or smoking.

## 9. Physical And Chemical Properties

Physical state and appearance: Off-white to yellowish powder

Odor: odorless

Melting point: 162°C

Flashpoint: Not highly flammable

Bulk density: 1.45 g/ml (25°C)

Vapour pressure:  $1.10 \times 10^{-07}$  (25°C)

Solubility in water: 2790 mg/l, in organic solvents: n-Hexane: 0.58mg/l, Acetone: 37000 mg/l, Methanol: 7630 mg/l (all at 20°C)

## 10. Stability And Reactivity

**Stability:** Stable under normal temperatures and pressures.

**Stability conditions to avoid:** Excess heat, and incompatible materials.

**Incompatibilities with other material:** None reasonably foreseeable

**Hazardous Decomposition products:** Under fire conditions may produce gases such as oxides of carbon, hydrogen, nitrogen and sulfur.

## 11. Toxicological Information

Skin irritation: Non-irritating to rabbit

Eye irritation: Slightly irritating to rabbit

Sensitization: Not a sensitizer to Guinea pig.

Oral to Rat: >5000 mg/kg.

Dermal to Rabbit: >2000 mg/kg.

Inhalation to Rat: LC<sub>50</sub> : 5.0 mg/L.

## 12. Ecological Information

Aquatic Organisms:

LC<sub>50</sub> for fish: Bluegill: >150mg/l (96h), Rainbow trout: 150mg/l (96h).

LC<sub>50</sub> for bird: Bobwhite: 2510 mg/kg, Mallard duck: 2510 mg/kg.

EC<sub>50</sub> for Daphnia: >150 mg/l (48h)

LD<sub>50</sub> for Honeybee: >25µg/kg (48h)

LC<sub>50</sub> for Earthworms: >1000mg/kg (14d).

## 13. Disposal Considerations

### Product

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

## **Container**

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

## **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.