



## 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

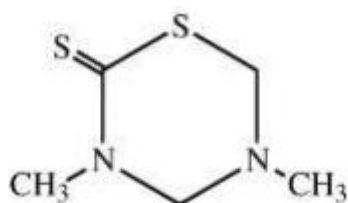
### 1. Chemical Product Identification

Product Name: Dazomet

Molecular Formula: C<sub>5</sub>H<sub>10</sub>N<sub>2</sub>S<sub>2</sub>

Molecular Weight: 162.3

Structural Formula:



Chemical Name: 3,5-dimethyl-1,3,5-thiadiazinane-2-thione

Form: crystalline

Color: white-slightly gray,

Odor: weakly pungent.

CAS No.: 533-74-4

### 2. Composition / Information on Ingredients

| Composition       | Chemical name | Content (%) |
|-------------------|---------------|-------------|
| Active ingredient | Dazomet       | 98          |
| Other ingredient  | -----         | 2           |

### 3. Hazards Identification

Fire: Combustible under specific conditions. Gives off irritating or toxic fumes (or gases) in



---

a fire.

#### **4. First Aid Measures**

If in inhalation: Fresh air rest. Local exhaust or breathing protection.

If on skin: Remove contaminated clothes. Rinse skin with plenty of water or shower. Protective gloves. Protective clothing.

If in eyes: First rinse with plenty of water for several minutes (remove contact lenses if easily possible) then take to a doctor.

If in ingestion: Rinse mouth. Refer for medical attention. Do not eat, drink or smoke during work. Wash hands before eating.

#### **5. Fire-Fighting Measures**

Flash point (Method): Will not flash Flammable limits (LEL&UEL): None established

Extinguishing media: Use foam, dry chemical, carbon dioxide, or water spray when fighting fires involving this material Fire and explosion hazard: Can burn in fire, releasing irritating and toxic gases due to thermal decomposition or combustion. Fire fighting instructions: Not applicable. Fire fighting equipment: Not applicable. Hazardous combustion products: Hydrogen chloride. Oxides of nitrogen, hydrogen, carbon, sulfur

#### **6. Accidental Release Measures**

Clean up spills immediately, observing precautions described in Section 8 of this document. Keep unnecessary and unprotected personnel from entering. Small spill: Vacuum or sweep up material and place in a container for reuse or disposal. Large spill: Vacuum or sweep up material and place in appropriate container for reuse or disposal. After removal, flush contaminated area thoroughly with water. Pick up wash liquid with inert absorbent and place in a chemical waste container for disposal.

#### **7. Handling and Storage**

Handling: Use only in a well-ventilated area. Minimize dust generation and accumulation. Storage: Provision to contain effluent from fire extinguishing. Separated from acids, food and feedstuffs. Cool. Dry. Keep in a well-ventilated room.

#### **8. Exposure Controls/Personal Protection**



# ZHEJIANG RAYFULL CHEMICALS CO., LTD

Tel: +86-577-88905587,88908857

Fax: +86-577-88905567

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

Engineering controls: not applicable Personal protective equipment: Eye protection- Safely goggles or eye protection in combination with breathing protection. Clothing- Long-sleeved shirt and long pants, shoes plus socks, chemical resistant apron when cleaning equipment, mixing, or loading. Gloves- Waterproof gloves User safety recommendations: not applicable

## 9. Physical and Chemical Properties

Appearance and odor: crystalline, white-slightly gray, weakly pungent

Solubility: 3 mg/L @ 20°C in water

Relative density: 1.37

Vapor pressure: 0.37 mPa @ 20°C

Melting point: 104-105°C(decompose)

Partition coefficient KowlogP=0.15(pH=7)

Flash point: 93°C PH: 7

## 10. Stability and Reactivity

Chemical stability: Stable. Conditions to avoid: Avoid exposure to excessive heat and high moisture conditions for prolonged periods. Incompatibility with other materials: Alkaline and acidic conditions and materials. Hazardous decomposition products: Not applicable. Hazardous polymerization: Not applicable.

## 11. Toxicological Information

Acute toxicity:

Acute oral LD50 for rat: 415 a.i.mg/kg.

Acute dermal LD50 for rat: >1000 a.i.mg/kg.

Inhalation: LC50 (4 h) for rat: >7.3 a.i. mg/L.

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

Eye irritation: Non-irritating to eyes (rabbits).

Skin sensitization: Not a sensitizer (guinea pig).

## 12. Ecological And Ecotoxicological Information

Effect on birds: moderate toxicity to birds, acute LD50 for Bobwhites quail is >415 a.i.mg/kg.

Effect on fish: moderate toxicity to fish, acute 96 hour LC50 for Bluegill sunfish is 0.3 a.i.mg/L.



Effect on aquatic invertebrates: moderate toxicity to aquatic invertebrates, acute 48 hour EC50 for Daphnia magna is 19.0 a.i.mg/L.

Effect on algae: moderate toxicity to algae, acute 72 hour EC50 is 0.275 a.i.mg/L.

Effect on honeybees: moderate toxicity to honeybees, contact acute 48 hour LD50 is >24 a.i.µg/bee.

Effect on earthworms: high toxicity to earthworms, acute 14 day LC50 is 6.5 a.i.mg/kg

### **13. Disposal Considerations**

Triple or (preferably) pressure rinse containers before disposal. Add rinsings to the spray tank. Do not dispose of undiluted chemicals on-site. If recycling replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

### **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.