



MATERIAL SAFETY DATA SHEET

Manufacturer/information service:

ZHEJIANG RAYFULL CHEMICALS CO., LTD

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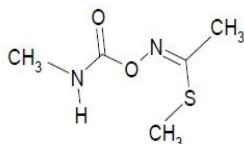
1. Chemical Product Identification

Product Name: Methomyl 90% SP

Molecular Formula: C₅H₁₀N₂O₂S

Molecular Weight: 162.21 g/mol

Structural Formula:



Chemical Name: S-methyl (EZ)-N-(methylcarbamoyloxy)thioacetimidate (IUPAC).

Form: Power

Colour: White

2. Composition / Information On Ingredients

Composition	CAS No.	Content
Methomyl	16752-77-5	90% min
Other ingredients	--	10% max

3. Hazards Identification

Harmful if swallowed or in contact with skin. Wear protective gloves/ protective clothing

Harmful if inhaled. May cause respiratory irritation. Harmful to aquatic life, avoid release to



the environment. Wash hands and container with soap and lots of water. Dispose of contents/container to an approved waste disposal plant. Keep out of reach of children.

4. First Aid Measures

Skin: In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

Eyes: If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. Seek medical advice immediately.

Inhalation: If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Ingestion: If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately.

5. Fire-Fighting Measures

Extinguishing Media: If product is involved in fire, use CO₂ or dry chemical.

Fire And Explosion Hazards: Heating benefin to temperatures above 90°C (194°F) can lead to violent reaction with rapid pressure build-up. If product is involved in fire, noxious, toxic fumes may also be formed.

Fire-Fighting Equipment: Wear full protective clothing and use positive- pressure, self-contained breathing apparatus.

6. Accidental Release Measures

Emergency procedures: Isolate and post spill area. Wear prescribed protective clothing and equipment. Large spills should be dyked or covered to prevent dispersal. Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite). Vacuum, shovel or pump spilled material into an approved container and dispose of as listed below. Keep out unprotected persons and animals.

Material and methods for containment and cleanup procedures: To decontaminate spill area, tools and equipment, wash with detergent and water and add the solution to the drums of wastes already collected and label contents. Absorb, as above, any excess liquid and add both solutions to the drums of waste already collected. Dispose of drummed wastes, including decontamination solution in accordance with the requirements of Local or State Waste Management Authorities.



7. Handling And Storage

Handling: Keep out of reach of children. Avoid contact with eyes, skin and clothing. Wear long sleeved overalls and gloves while handling. After handling and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

Storage: Store at normal temperatures, away from children, domestic animals, food and feed products, seed and fertilizer. Do not contaminate other stored products or the storage area by handling or storage of this product. Keep in a well-ventilated room.

8. Exposure Controls/personal protection

Personal Protection: Compatible chemical-resistant gloves. Chemical safety goggles.

Respirators: Government approved respirator.

Exposure Effects: Properties of this material have not yet been prepared. Any recommendations are of a general nature. Many chemicals cause irritation of the eyes, skin, and respiratory tract. In severe cases respiratory tract irritation can progress to ARDS/acute lung injury which may be delayed in onset for up to 24 to 72 hours in some cases Irritation or burns of the esophagus or gastrointestinal tract are also possible if caustic or irritant chemicals are ingested. ALWAYS contact your local poison control authority or medical professional for assistance.

9. Physical and Chemical Properties

Appearance: White powder

pH: 4.0-8.0

Water: $\leq 2.0\%$

Persistent foam: $\leq 60\text{ml}$

Wetting time: $\leq 60\text{s}$

Complete dissolution time: $\leq 120\text{s}$

Fineness (through 325mesh sieve): $\geq 98\%$

10. Stability And Reactivity

Stability: Stable at normal temperatures and storage conditions.

Conditions to avoid: Do not store for prolonged periods in direct sunlight. Avoid all sources of ignition.



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Incompatible materials: Keep concentrate away from strong alkalis and alkaline materials.

Hazardous decomposition products: If involved in a fire, it will emit toxic oxides of carbon and nitrogen and possibly oxides of sulphur.

Hazardous reactions: No special considerations. Hazardous polymerisation is not possible.

11. Toxicological Information

Acute oral LD₅₀ (rat) : 30 a.i.mg/kg

Acute dermal LD₅₀(rat) : >2000 a.i.mg/kg

Acute InhalationLC₅₀(rat): The 4-hour LC₅₀ in rats is 0.215 a.i.mg/l

Skin irritation: Non irritating to rabbit skin

Eye irritation: Slightly irritating to rabbit eyes

Skin Sensitization: Non-sensitive (Guinea Pig)

12. Ecological and Eco-toxicological Information

Effect on fish: Acute 96h LC₅₀ for rainbow trout is 1.6 a.i.mg/l.

Effect on birds: Acute oral LD₅₀ for Japanese quail is 34 a.i.mg/kg.

Effect on aquatic invertebrates: Acute 48h EC₅₀ for Daphnia magna is 0.0287 a.i.mg/l

Effect on bees: Oral acute 48h LD₅₀ is 0.28 a.i.µg/bee, contact acute 48h LD₅₀ is 0.16 a.i.µg/bee.

Effect on earthworms: Acute 14 day LC₅₀ is 19 a.i.mg/kg.

13. Disposal Considerations

Waste Disposal : In accordance with local and national regulations. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Do not contaminate ponds, waterways or ditches with chemical or used container.

Container disposal: Container Refilling and Disposal: Refer to the product label for instructions. If the container is to be refilled, do not rinse with any material or introduce any pesticide other than this product. Do not reuse the container for any other purpose.

14. Transport Information

Not applicable



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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.