



## MATERIAL SAFETY DATA SHEET

### Manufacturer/information service:

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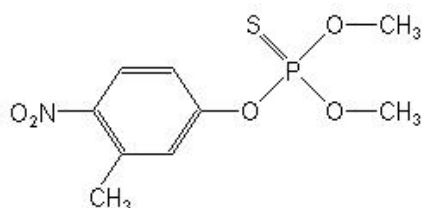
### 1. Chemical Product Identification

Product Name: Fenitrothion 3% DP

Molecular Formula:  $C_9H_{12}NO_5PS$

Molecular Weight: 277.2 g/mol

Structural Formula:



Chemical Name: O,O-dimethyl O-4-nitro-m-tolyl phosphorothioate (IUPAC)

Form: Powder

Colour: Off-white

CAS No.: 122-14-5

### 2. Composition / Information On Ingredients

Composition	Chemical name	Content (% w/w)
Active ingredient	Fenitrothion	3%
Other ingredient	--	97%

### 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



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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. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.

Ingestion: If swallowed, seek medical advice immediately and show this container or label.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration.

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

Extinguishing media;

Fire extinguishing media: Water spray, foam, carbon dioxide, extinguishing media.

Special fire fighting procedures: Fire fighters should use self contained breathing apparatus and full turnout gear. Prevent runoff of fire water. Avoid exposure to smoke.

Unusual fire and explosion hazards: Noxious fumes may be emitted under fire conditions.

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

Personal precautions:

Use personal protective clothing.

Environmental precautions:

Do not allow material to enter sewers, surface, ground, water and soil. If contamination occurs inform Authorities.

Methods for cleaning up or taking up:

For large amounts: Pump off product.

For residues: Contain spill. Absorb spilled product with inert materials. Wash contaminated areas with soda solution, absorb with inert material and send to disposal.

#### **7. Handling And Storage**



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#### Handling

Precautions to avoid fire and explosion:

- avoid accumulation of electrostatic charges
- keep away from flames and sparks. Do not smoke.

Handle under adequate ventilation.

#### Storage

In original packaging under normal storage condition. Packages should not be exposed to direct sunlight and must be kept unopened and undamaged.

Store in a cool, dry place.

### **8. Exposure Controls/personal protection**

Personal protective equipment

Hand protection:

Chemical-resistant gloves

Eye protection:

Chemical tight goggles, full faceshield in addition if splashing is possible.

Body protection: Protective suit

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. No eating, drinking, smoking or snuff taking at the place of work. Keep away from food, drink and animal feeding stuffs.

### **9. Physical And Chemical Properties**

- Appearance: Off-white powder
- Active ingredient content:  $\geq 3\%$
- Fineness( 250 mesh sieve):  $\geq 98\%$
- Stability 0°C: Qualified
- Water:  $\leq 4\%$

### **10. Stability And Reactivity**

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

Substances to avoid: None known.

Incompatibility with other materials: None known.



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Hazardous decomposition products: Can decompose at high temperatures forming toxic gases.

Hazardous polymerization: Will not occur.

## **11. Toxicological Information**

Acute oral toxicity: Oral Acute oral LD<sub>50</sub> for male and female rats: >2000 a.i.mg/kg.

Acute dermal toxicity: LD<sub>50</sub> for rats >3000 a.i.mg/kg.

Acute inhalation toxicity: LC<sub>50</sub> (4h) for rats: >2210 a.i.mg/m<sup>3</sup>.

Skin irritation: No irritation for rabbits.

Eye irritation: No irritation for rabbits

## **12. Ecological And Ecotoxicological Information**

Effects on bees: Fenitrothion 3% DP is toxic to bees.

Effects on fish: Fenitrothion 3% DP is moderately toxic to fish and aquatic organisms. The LC<sub>50</sub>(96h) values Bluegill sunfish is 2.5 a.i.mg/L.

Effects on birds: Fenitrothion 3% DP is highly toxic to birds. Acute oral LC<sub>50</sub>(8d) for Bobwhite quail is 32 mg/kg.

## **13. Disposal Considerations**

Must be dumped or incinerated in accordance with local regulations.

Contaminated packaging:

Packs that cannot be cleaned should be disposed of in the same manner as the contents.

Contaminated packaging should be emptied as far as possible and disposed of in accordance with official regulations after being thoroughly cleaned.

Uncontaminated packaging may be treated as household waste.

## **14. Transport Information**

UN Hazard Class: 6.1

UN No.: 3077

Do not transport with food and feedstuffs.

Severe marine pollutant.

## **15. Regulatory Information**



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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.