



## MATERIAL SAFETY DATA SHEET

### Manufacturer/information service:

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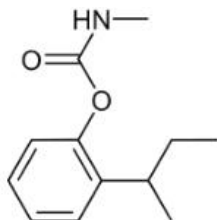
### 1. Chemical Product Identification

Product Name: Fenobucarb 95% TC

Molecular Formula: C<sub>12</sub>H<sub>17</sub>NO<sub>2</sub>

Molecular Weight: 207.27 g/mol

Structural Formula:



Chemical Name: (RS)-2-sec-butylphenyl methylcarbamate

Form: oily liquid

Color: light yellow

Odor: with slight special odor

CAS No.: 3766-81-2

### 2. Composition / Information On Ingredients

Composition	CAS No.	Content %
Fenobucarb	3766-81-2	95.0
Other ingredients		5.0



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### 3. Hazards Identification

Risk: Harmful if swallowed. Toxic in contact with skin. Very toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment.

Potential Health Effects:

EYE: Mildly irritating to the eye.

SKIN: Prolonged or repeated skin contact may cause rashes, numbing, burning, or tingling effects. Not a sensitizer.

INHALATION: May cause irritation to the nasal region and respiratory tract.

INGESTION: Harmful if swallowed.

Potential Physical Hazards: Can decompose at high temperatures forming toxic gases.

### 4. First Aid Measures

Skin: Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.

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

Inhalation: Move affect person to fresh air and keep at rest until recovered. If not breathing, give artificial respiration and get to a doctor.

Ingestion: Do not induce vomiting if the person is conscious. Give glass of water. Get to a doctor.

Notes to physician: No specific antidote if ingested. Treat symptomatically.

### 5. Fire-Fighting Measures

Extinguishing media

To be used: Water, carbon dioxide, dry chemical and foam.

Don't use: Not applicable

Particular risk: None

Measures of personal protection: Safety glasses or goggles, rubber gloves, shoes plus socks, long-sleeved shirt, and long pants.

Environmental cautions

EX: Prevent the contamination of the floor and the beds of water.



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## **6. Accidental Release Measures**

Personal cautions: Safety glasses or goggles, rubber gloves, shoes plus socks, long sleeved shirt, and long pants.

Cleaning methods

EX: The empty container may be decontaminated by rinsing two or three times with water and detergent and scrubbing the sides.

Environmental cautions

EX: prevent the contamination of the floor and beds of water.

## **7. Handling And Storage**

Handling: Do not apply to humans, their clothing, or bedding. Do not contaminate food or use on household tanks.

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 protective equipment

Respiratory protection: Approved respirator

Protective gloves: Rubber gloves

Eye protection: Safety goggles or face shield.

Industrial hygiene: Adequate ventilation.

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

Form: oily liquid

Color: Light yellow

Odor: with slight special odor

Melting Point: 26.5-31.5°C

Boiling Point: 112-113°C

Density: 1.035 g/mL at 30°C

pH: 3.0-6.9

Water content: ≤0.3%



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## 10. Stability And Reactivity

Conditions to avoid: flame, fire and high temperature.

Products to avoid: incompatible with alkaline and strong acid;

Thermal decomposition: N/A;

Hazardous decomposition products: nitride, chloride, carbon dioxide and so on.

Hazardous reaction: Not applicable

## 11. Toxicological Information

Acute oral LD<sub>50</sub> for rats is 620 a.i.mg/kg.

Acute dermal LD<sub>50</sub> for rabbits is >5000 a.i.mg/kg.

Acute inhalation LC<sub>50</sub> (4 h) for rat: 0.37 a.i.mg/L.

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

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

Skin sensitization: Non-sensitizing (guinea pigs).

## 12. Ecological And Ecotoxicological Information

Effect on birds: low toxicity to birds, acute LD<sub>50</sub> for Bobwhite quail is 2250 a.i.mg/kg.

Effect on fish: moderate toxicity to fish, acute 96 hour LC<sub>50</sub> for Cyprinoid is 1.7 a.i.mg/L.

Effect on aquatic invertebrates: moderate toxicity to aquatic invertebrates, acute 48 hour EC<sub>50</sub> for Daphnia magna is 0.1 a.i.mg/L.

Effect on earthworms: moderate toxicity to earthworms, acute 14 day LC<sub>50</sub> is 10.7 a.i.mg/kg.

## 13. Disposal Considerations

Material which can not be used at the site should be disposed of in an approved waste disposal facility following all applicable Federal, State and Local regulations. If burned, stay out of smoke. Do not contaminate water supplies by disposal of wastes or containers.

## 14. Transport Information

Not applicable

## 15. Regulatory Information

Not applicable



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### 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.