



**Chem Service Inc.**  
**Material Safety Data Sheet**  
Date: Monday, February 18, 2008  
**Last Revised Date: 9/28/06**

**SECTION 1 - CHEMICAL PRODUCT and COMPANY IDENTIFICATION**

Catalog Number: PS-667  
Description: Fensulfothion  
Other Name(s): O,O-Diethyl O-4-methylsulfinyl phenyl Phosphorothioate

Supplied by CHEM SERVICE, Inc. PO BOX 599, WEST CHESTER, PA 19381 (610)-692-3026  
EMERGENCY PHONE: 1-610-692-3026

**SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS**

CAS No.: 115-90-2  
Description: Fensulfothion  
EINECS No.: 204-114-3  
Hazard Symbols: T+;N

**SECTION 3 - HAZARDS IDENTIFICATION**

Contact lenses should not be worn in the laboratory. All chemicals should be considered hazardous - Avoid direct physical contact!  
May be fatal if absorbed through the skin! May be fatal if inhaled! May be fatal if swallowed! Based on the toxicity of compounds of similar structure this material is probably highly hazardous.  
Possible cholinesterase inhibitor-May cause seizures, nausea, vomiting, airway obstruction and/or increased mucous secretions in the lungs.

**SECTION 4 - FIRST AID MEASURES**

An antidote is a substance intended to counteract the effect of a poison. It should be administered only by a physician or trained emergency personnel. Medical advice can be obtained from a POISON CONTROL CENTER.  
In case of contact: Flush eyes continuously with water for 15-20 minutes. Flush skin with water for 15-20 minutes. If no burns have occurred-use soap and water to cleanse skin. If inhaled remove patient to fresh air. Administer oxygen if patient is having difficulty breathing. If patient has stopped breathing administer artificial respirations. If patient is in cardiac arrest administer CPR. Continue life supporting measures until medical assistance has arrived. Remove and wash contaminated clothing. If patient is exhibiting signs of shock - Keep warm and quiet. Contact Poison Control Center immediately if necessary. Induce vomiting if swallowed. Do not administer liquids or induce vomiting to an unconscious or convulsing person. If patient is vomiting-watch closely to make sure airway does not become obstructed by vomit. Get medical attention if necessary. ANTIDOTE: Atropine sulfate. ANTIDOTE: 2-PAM (Pralidoxime chloride). ANTIDOTE: Toxogonin.

**SECTION 5 - FIRE AND EXPLOSION DATA**

Flash Point: Not Available  
Extinguishing Media: Carbon dioxide, dry chemical powder or spray.  
Upper Explosion Limit: Not Available

Lower Explosion Limit: Not Available  
Autoignition Temperature: Not Available  
NFPA Hazard Rating: Not Available

## **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Spills or leaks: Evacuate area. Wear appropriate OSHA regulated equipment. Ventilate area. Absorb on vermiculite or similar material. Sweep up and place in an appropriate container. Hold for disposal.

Wash contaminated surfaces to remove any residues. Remove contaminated clothing and wash before reuse.

## **SECTION 7 - HANDLING AND STORAGE**

Handling:

This chemical should be handled only in a hood. Eye shields should be worn. Use appropriate OSHA/MSHA approved safety equipment. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Wash thoroughly after handling.

Storage:

STORE UNDER NITROGEN AND REFRIGERATION. Store only with compatible chemicals. Keep tightly closed.

## **SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

OSHA PEL (TWA): 0.1 mg/m<sup>3</sup>  
ACGIH TLV (TWA): 0.1mg/m<sup>3</sup>  
ACGIH TLV (STEL): Not Available

Personal Protective Equipment

Eyes: Wear Safety Glasses.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to minimize contact with skin.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 requirements must be followed whenever workplace conditions warrant a respirator's use.

## **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Color: Yellow  
Phase: Liquid  
Melting Point: Not Available  
Boiling Point: 430 C  
Specific Gravity: 1.202  
Vapor Density: Not Available  
Vapor Pressure: Not Available  
Solubility in Water: Very slightly soluble  
Odor: Not Available  
Evaporation Rate (Butyl acetate=1): Not Available  
Molecular Weight: 308.37  
Molecular Formula: C<sub>11</sub>H<sub>17</sub>O<sub>4</sub>PS<sub>2</sub>

## **SECTION 10 - STABILITY AND REACTIVITY**

Incompatible with strong bases. Incompatible with strong oxidizing agents. Incompatible with Copper and Mercury or alkaline pesticides.

## **SECTION 11 - TOXICOLOGY INFORMATION**

RTECS: TF3850000

Oral Rat or Mouse LD50: 5mg/kg

Dermal Rat or Mouse LD50: Not Available

Rat or Mouse LC50 : Not Available

Carcinogenicity

OSHA: No

IARC: No

NTP: No

ACGIH: No

NIOSH: No

Other: No

## **SECTION 12 - ECOLOGICAL INFORMATION**

Ecotoxicity: Not Available

Environmental Fate: Not Available

## **SECTION 13 - DISPOSAL CONSIDERATIONS**

DISPOSAL: Burn in a chemicals incinerator equipped with an afterburner and scrubber.

## **SECTION 14 - TRANSPORTATION INFORMATION**

UN Number: UN3278

Class: 6.1

Packing Group: I

Proper Shipping Name: Organophosphorus compound, toxic, nos\*

## **SECTION 15 - REGULATORY INFORMATION**

European Labeling in Accordance with EC Directives

Hazard Symbols: T+;N

Risk Phrases:

R27/28: Very toxic in contact with skin and if swallowed.

R50/53: Very toxic to aquatic organisms and May cause long-term adverse effects in the aquatic environment.

Safety Phrase:

S23: Do not breathe gas/fumes/vapour/spray.

S28: After contact with skin, wash immediately with plenty of .... (to be specified by the manufacturer).

S36/37: Wear suitable protective clothing and gloves.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

S60: This material and/or its container must be disposed of as hazardous waste.

S61: Avoid release to the environment. Refer to special instructions/Safety data sheet.

**SECTION 16 - OTHER INFORMATION**

The above information is believed to be correct on the date it was last revised and must not be considered all inclusive. The information has been obtained only by a search of available literature and is only a guide for handling the chemicals. OSHA regulations require that if other hazards become evident, an upgraded MSDS must be made available to the employee within three months. RESPONSIBILITY for updates lies with the employer and not with CHEM SERVICE, Inc.

Persons not specifically and properly trained should not handle this chemical or its container. This product is furnished FOR LABORATORY USE ONLY! Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticide products, food additives or as household chemicals.

This Material Safety Data Sheet (MSDS) is intended only for use with Chem Service, Inc. products and should not be relied on for use with materials from any other supplier even if the chemical name(s) on the product are identical! Whenever using an MSDS for a solution or mixture the user should refer to the MSDS for every component of the solution or mixture. Chem Service warrants that this MSDS is based upon the most current information available to Chem Service at the time it

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