

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Company: AccuStandard, Inc.
 125 Market Street
 New Haven, CT 06513

Date MSDS Printed: 6/13/2008
 Preparation Date: 6/13/2008
 Information Phone Number: 203-786-5290
 Emergency Phone Number: 203-786-5290
 Hours: Mon. to Fri. 8am-5pm

Catalog Number: **P-087NB-250**

Product Name: Dyfonate

Synonyms: O-Ethyl S-phenyl (RS)-ethylphosphonodithioate; Fonofos; Dyfonate

Formula: C10H15OPS2

Molecular Weight: 246.33

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

Component(s)	(1)	CAS #	Appr. %	ACGIH-TLV (mg/m3)		OSHA-PEL (mg/m3)	
				TWA	STEL skin	TWA	STEL skin
Dyfonate		944-22-9	100	0.1		x	0.1

SECTION 3 - HAZARDS IDENTIFICATION**Health and Environmental Hazards/Symptoms of Exposure:**

TOXIC.

May cause headache, dizziness, nausea, vomiting, general malaise, muscle twitching, and convulsions.

May cause nausea, intoxication, central nervous system depression, headache, decreased blood rate, and coma.

Cholinesterase inhibitor. Can cause heavy salivation and secretion in the lungs, lachrymation, blurred vision, involuntary defecation, diarrhea, tremor, ataxia, sweating, hypothermia, lowered heart rate and/or a fall in blood pressure.

Environmental hazard.

Toxic to fish and other water organisms.

May cause long-term adverse effects in the aquatic environment.

Potential Health Effects:

May be irritating to eyes.

May be irritating to skin.

Toxic if absorbed through skin.

Readily absorbed through skin.

May be irritating to mucous membrane and upper respiratory system.

Toxic if inhaled.

Toxic if swallowed.

Routes of Entry:

Inhalation, ingestion or skin contact.

Carcinogenicity:

This product is or contains a component that is classified (ACGIH, IARC, NTP, OSHA) as probably not a cancer hazard.

SECTION 4 - FIRST AID MEASURES

Emergency First Aid:

Get medical assistance for all cases of overexposure.

Skin contact: Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

Eye contact: Immediately flush with plenty of water. After initial flushing, remove and contact lenses and continue flushing for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

Ingestion: Call a physician or poison control center immediately. If conscious, give water freely.

SECTION 5 - FIRE FIGHTING MEASURES

Flammable Properties:

Flash Point: 354 °F (179 °C)

HMIS® III

3	0	0
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Flammable Limits LEL (%): N/A

NFPA

4	0	0
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Flammable Limits UEL (%): N/A

Autoignition Temperature: N/A

During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media:

Use alcohol foam, carbon dioxide, dry chemical, or water spray when fighting fires involving this material.

Fire Fighting Procedures:

As in any fire, wear self-contained breathing apparatus pressure demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Spill Response:

Wear suitable protective equipment listed under Exposure Controls / Personal Protection. Eliminate any ignition sources until the area is determined to be free from explosion or fire hazards. Contain the release and eliminate its source, if this can be done without risk. Dispose as hazardous waste. Comply with Federal, State and local regulations.

SECTION 7 - HANDLING AND STORAGE

Store in a tightly closed container.

Keep refrigerated.

Do not breathe vapor.

Use with adequate ventilation.

Do not get in eyes, on skin or clothing.

Avoid prolonged or repeated exposure.

This product should only be used by persons trained in the safe handling of hazardous chemicals.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls and Personal Protection Equipment (PPE):

Respiratory Protection: If workplace exposure limit(s) of product or any component is exceeded (see TLV/PEL), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (see your safety equipment supplier). Engineering and/or administrative controls should be implemented to reduce exposure.

Material should be handled or transferred in an approved fume hood or with adequate ventilation.

Protective gloves must be worn to prevent skin contact.

(Butyl, viton or equivalent)

Safety glasses with side shields must be worn at all times.

General Hygiene Considerations:

Wash thoroughly after handling. Do not take internally. Eye wash and safety equipment should be readily available.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, colorless liquid (99.5% pure)

Odor: Aromatic odor

pH: N/A

Vapor Pressure: 28 mPa (25 °C)

Vapor Density (Air = 1): N/A

Boiling Point: 130 °C (0.1 mmHg)

Melting Point: 30 °C

Solubility in Water (%): Insoluble

Specific Gravity (H₂O = 1): 1.16 g/cm³

Flash Point: 354 °F (179 °C)

Explosion Limits (%): N/A to N/A

Autoignition Temperature: N/A

Percent Volatile: N/A

Evaporation Rate (BuAc = 1): N/A

Molecular Weight: 246.33

Molecular Formula: C₁₀H₁₅O₂S

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable

Conditions To Avoid: Sensitive to heat, corrodes steel.

Materials To Avoid: Oxidizers
Acids
Bases

Hazardous Decomposition: Oxides of carbon, phosphorous and sulfur

Hazardous Polymerization: Will not occur

SECTION 11 - TOXICOLOGICAL INFORMATION

See section 3 for specific toxicological information for the ingredients of this product.

SECTION 12 - ECOLOGICAL INFORMATION

By complying with sections 6 and 7 there will be no release to the environment.

SECTION 13 - DISPOSAL CONSIDERATIONS

Recycle or incinerate at any EPA approved facility or dispose in compliance with Federal, State and local regulations. Empty containers must be triple-rinsed prior to disposal.

SECTION 14 - TRANSPORT INFORMATION

DOT UN Number: UN2810 Shipping Class: 6.1 Packing Group: I TOXIC SUBSTANCE

SECTION 15 - REGULATORY INFORMATION

In addition to Federal and state regulations, local regulations may apply. Check with your local regulatory authorities.

The CAS number of this product is NOT listed on the TSCA Inventory. For laboratory, research and development use only. Not for manufacturing or commercial purposes.

SECTION 16 - OTHER INFORMATION

This document has been designed to meet the requirements of OSHA, ANSI and CHIPs regulations.

The statements contained herein are offered for informational purposes only and are based on technical data that we believe to be accurate. It is intended for use only by persons having the necessary technical skill and at their own discretion and risk. Since conditions and manner of use are outside our control, we make
NO WARRANTY, EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE.

Legend : N/A = Not Available ND = Not Determined NR = Not Regulated

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