RIGHT TO KNOW
HAZARDOUS SUBSTANCE FACT SHEET

Emergency Responders Quick Reference

Common Name: **FENTHION**

Synonyms: Baytex; Entex; Lebaycid
CAS Number: 55-38-9
Molecular Formula: $C_{10}H_{15}O_3PS_2$
RTK Number: 0916
Description: Colorless to yellow-brown liquid which usually has a garlic odor. Also available in granular form.

HAZARD DATA

Hazard Rating		Firefighting	Reactivity
Health:	3	Extinguish fire using an agent suitable for type of surrounding fire. **Fenthion** itself does not burn.	**Fenthion** is not compatible with OXIDIZING AGENTS (such as PERCHLORATES, PEROXIDES, PERMANGANATES, CHLORATES, NITRATES, CHLORINE, BROMINE and FLUORINE): and ALKALINE INSECTICIDES.
Fire:	1	POISONOUS GASES ARE PRODUCED IN FIRE, including *Phosphorus* and *Sulfur Oxides*.	
Reactivity:	1	CONTAINERS MAY EXPLODE IN FIRE when organic solvent is used as a carrier.	
DOT #:	UN 3018 UN 2783	Use water spray to keep fire-exposed containers cool.	
ERG #:	152	Carrier solvents used in commercial formulations may change physical and toxicological properties.	
DOT Hazard:	6.1 (poison)		

SPILLS/LEAKS

Isolation Distances:

Liquid Spill: 50 meters (150 feet)
Solid Spill: 25 meters (75 feet)
Fire: 800 meters (1/2 mile)

Evacuate personnel.
Secure and control entrance to the area.
If it is safe to do so, remove potential ignition sources.
Absorb *liquids* in vermiculite, dry sand, earth or a similar material and deposit in sealed containers.
Collect *powdered* material in the most convenient and safe manner and deposit in sealed containers. DO NOT DRY SWEEP.
Do NOT allow this substance to enter waterways, including sewers, as it is very toxic to aquatic life with long-lasting effects.
Ventilate the area of spill or leak after clean-up is complete.

PHYSICAL PROPERTIES

Auto-Ignition: 365 ˚C (689 ˚F)
Flash Point: 170 ˚C (338 ˚F)
Relative Vapor Density: 9.6 (air = 1)
Relative Density: 1.25 (water = 1)
Water Solubility: Insoluble
Boiling Point: 87 ˚C (189 ˚F)
Melting Point: 7.5 ˚C (43 ˚F)
Molecular Weight: 278.3

EXPOSURE LIMITS

The following exposure limits are for **Fenthion**:

ACGIH: 0.2 mg/m^3, 8-hour average

PAC: PAC-1 = 0.15 mg/m^3
PAC-2 = 5.9 mg/m^3
PAC-3 = 35 mg/m^3

PROTECTIVE EQUIPMENT

Gloves: Nitrile and Neoprene

Coverall: Tychem® BR, CSM and TK, or the equivalent

Respirator: >0.2 mg/m^3 – supplied-air, full facepiece, pressure-demand or another positive-pressure mode

ACUTE HEALTH EFFECTS

Eyes: Irritation, blurred vision

Skin: Irritation

Inhalation: Runny nose, cough, headache, dizziness, chest tightness, twitching, loss of coordination, convulsions, coma, death

FIRST AID AND DECONTAMINATION

Immediately flush eyes with large amounts of water for at least 15 minutes.
Quickly remove contaminated clothing.
Immediately wash contaminated skin with large amounts of soap and water.
Shampoo hair immediately if contaminated.
Remove the person from exposure.
Begin rescue breathing (using universal precautions) if breathing has stopped and CPR if heart action has stopped.
Transfer promptly to a medical facility.
Medical observation is required for several days as some symptoms may be delayed.