

Common Name: **DIMEFOX**

Synonyms: Bis(Dimethylamido)Fluorophosphate; DMF

CAS No: 115-26-4

 Molecular Formula: C₄H₁₂FN₂OP

RTK Substance No: 2342

Description: Colorless liquid with a fishy odor

HAZARD DATA

Hazard Rating	Firefighting	Reactivity
3 - Health 1 - Fire 0 - Reactivity DOT#: None ERG Guide #: 152 Hazard Class: 6.1 (Toxic)	Dimefox may burn, but does not readily ignite. Use dry chemical, CO ₂ or water spray as extinguishing agents. POISONOUS GASES ARE PRODUCED IN FIRE, including <i>Phosphine</i> . CONTAINERS MAY EXPLODE IN FIRE. Use water spray to keep fire-exposed containers cool.	Dimefox can form highly toxic and flammable <i>Phosphine gas</i> in the presence of REDUCING AGENTS (such as LITHIUM, SODIUM, ALUMINUM and their HYDRIDES). Dimefox is not compatible with OXIDIZING AGENTS (such as PERCHLORATES, PEROXIDES, PERMANGANATES, CHLORATES, NITRATES, CHLORINE, BROMINE and FLUORINE). Dimefox is corrosive to METALS.

SPILL/LEAKS
Isolation Distance:

Spill: 50 meters (150 feet)

Fire: 800 meters (1/2 mile)

Absorb liquids in vermiculite, dry sand, earth, or a similar material and place into sealed containers for disposal.

DO NOT wash into sewer.

Dimefox may pollute waterways.

PHYSICAL PROPERTIES

Odor Threshold:	Fishy odor
Flash Point:	May burn
Vapor Pressure:	0.36 mm Hg at 77°F (25°C)
Specific Gravity:	1.1 (water = 1)
Water Solubility:	Soluble
Boiling Point:	187°F (86°C)
Molecular Weight:	154.1

EXPOSURE LIMITS
IDLH: 1 mg/m³

The Protective Action Criteria values are:

 PAC-1 = 0.6 mg/m³

 PAC-2 = 1 mg/m³

 PAC-3 = 1 mg/m³
PROTECTIVE EQUIPMENT

Gloves:	Neoprene and Silver Shield®/4H® (>8-hr breakthrough for <i>Organo-phosphorus compounds</i>)
Coveralls:	Tychem® BR, LV, Responder® and TK (>8-hr breakthrough for <i>Organo-phosphorus compounds</i>)
Respirator:	SCBA

HEALTH EFFECTS

Eyes:	No information
Skin:	No information
Inhalation:	Nose, throat and lung irritation with coughing, wheezing and shortness of breath Headache, sweating, nausea and vomiting, loss of coordination, and death (<i>Organophosphate poisoning</i>)

FIRST AID AND DECONTAMINATION

Remove	the person from exposure.
Flush	eyes with large amounts of water for at least 15 minutes. Remove contact lenses if worn.
Quickly	remove contaminated clothing and wash contaminated skin with large amounts of water. Seek medical attention immediately.
Shampoo	hair immediately if contaminated.
Begin	artificial respiration if breathing has stopped and CPR if necessary.
Transfer	promptly to a medical facility.