

Right to Know Hazardous Substance Fact Sheet

Emergency Responders Quick Reference

Common Name: ACEPHATE

Synonyms: N-(Methoxy(methylthio)phosphinoyl)acetamide; Orthene™; Lancer®

CAS No: 30560-19-1

Molecular Formula: C₄H₁₀NO₃PS RTK Substance No: 3140

Description: Colorless to white crystal or powder with an odor of rotten cabbage. It may be dissolved in a

liquid "carrier."

HAZARD DATA		
Hazard Rating	Firefighting	Reactivity
3 - Health	Acephate does not burn, however it is often dissolved in a liquid carrier which may be	Acephate is not compatible with OXIDIZING AGENTS (such as PERCHLORATES, PEROXIDES,
1 - Fire	flammable or combustible.	PERMANGANATES, CHLORATES, NITRATES,
1 - Reactivity	Use dry chemical, CO ₂ , water spray or foam as extinguishing agents.	CHLORINE, BROMINE and FLUORINE); ALKALINE MATERIALS or STRONG BASES (such as SODIUM
DOT#: UN 2783	POISONOUS GASES ARE PRODUCED IN FIRE,	HYDROXIDE and POTASSIUM HYDROXIDE); and
ERG Guide #: 152	including Phosphorus Oxides, Sulfur Oxides and Nitrogen Oxides.	HYPOCHLORITES.
Hazard Class: 6.1 (Poison)	Use water spray to keep fire-exposed containers cool.	

SPILL/LEAKS

Isolation Distance:

Solid Spill: 25 meters (50 feet) Liquid Spill: 50 meters (175 feet) Fire: 800 meters (1/2 mile)

Moisten solid spilled material, or use a HEPA-filter vacuum for clean-up, and deposit in sealed

containers.

Absorb liquids in vermiculite, dry sand, earth, or a similar material and deposit in sealed containers.

DO NOT wash into sewer.

Acephate is hazardous to the environment and specific attention should be given to birds and

honeybees.

PHYSICAL PROPERTIES

Odor Threshold:Rotten cabbageFlash Point:199°F (93°C)

Vapor Pressure: <1 mm Hg at 77°F (25°C)

Specific Gravity: 1.35 (Water = 1)

Water Solubility: Soluble

Melting Point: 149° to 194°F (65° to 90°C)

Decomposes: 311°F (155°C)

Molecular Weight: 183.2

pH: 3.5-4.5 (1% in water)

EXPOSURE LIMITS

No occupational exposure limits have been established for **Acephate**.

Acephate is skin absorbable.

PROTECTIVE EQUIPMENT

Gloves: Nitrile, Neoprene and SilverShield®/4H®
Coveralls: DuPont Tyvek® for solid Acephate

Respirator: Outdoors: Full facepiece APR with Organic vapor

cartridge and pesticide pre-filters

Indoors or Liquid: Supplied air or SCBA

HEALTH EFFECTS

Eyes: Irritation and burns
Skin: Irritation and burns

Inhalation: Headache, dizziness, blurred vision,

sweating, nausea and vomiting, muscle

twitching, loss of coordination, convulsions, coma and death

Chronic: Carcinogen (liver) in animals

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. Seek medical attention immediately.

Quickly remove contaminated clothing and wash contaminated skin with large amounts of soap and water. Seek medical attention immediately

Begin artificial respiration if breathing has stopped and CPR if necessary.

Transfer to a medical facility.