

## **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: C<sub>4</sub>H<sub>10</sub>NO<sub>3</sub>PS 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 <sub>2</sub> , water spray or foam as extinguishing agents.	CHLORINE, BROMINE and FLUORINE); ALKALINE MATERIALS or STRONG BASES (such as SODIUM
<b>DOT#:</b> 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.