

Common Name: **d-trans-ALLETHRIN**

Synonyms: d-Allethrolone Chrysanthemumate; Bioallethrin

CAS No: 28434-00-6

Molecular Formula: C<sub>19</sub>H<sub>26</sub>O<sub>3</sub>

RTK Substance No: 3647

Description: Clear to amber colored, thick liquid with a mild odor (*Pyrethroid* insecticide)

### HAZARD DATA

Hazard Rating	Firefighting	Reactivity
<b>2 - Health</b> <b>1 - Fire</b> <b>0 - Reactivity</b> DOT#: UN 3352 ERG Guide #: 151 Hazard Class: 6.1 (Poison)	<b>d-trans-Allethrin</b> does not burn, however, it is often dissolved in a liquid carrier which may be flammable or combustible. Use dry chemical, CO <sub>2</sub> or foam as extinguishing agents. POISONOUS GASES ARE PRODUCED IN FIRE. Use water spray to keep fire-exposed containers cool.	<b>d-trans-Allethrin</b> is not compatible with OXIDIZING AGENTS (such as PERCHLORATES, PEROXIDES, PERMANGANATES, CHLORATES, NITRATES, CHLORINE, BROMINE and FLUORINE) and STRONG ACIDS (such as HYDROCHLORIC, SULFURIC and NITRIC). <b>d-trans-Allethrin</b> can be decomposed by STRONG BASES (such as SODIUM HYDROXIDE and POTASSIUM HYDROXIDE) and ULTRAVIOLET LIGHT.

### SPILL/LEAKS

**Isolation Distance:**

**Spill:** 50 meters (150 feet)

**Fire:** 800 meters (1/2 mile)

Absorb liquids in dry sand, earth, or a similar material and place into sealed containers for disposal. DO NOT wash into sewer.

**d-trans-Allethrin** is highly toxic to fish and aquatic animals.

### PHYSICAL PROPERTIES

**Flash Point:** 180° to 266°F (82° to 130°C) (dependent on "carrier" for a 90% solution)

**Specific Gravity:** 0.995 (water = 1)

**Water Solubility:** Insoluble

**Boiling Point:** 284° to 320°F (140° to 160°C)

**Molecular Weight:** 302.4

### EXPOSURE LIMITS

No occupational exposure limits have been established for **d-trans-Allethrin**.

### PROTECTIVE EQUIPMENT

**Gloves:** Butyl, Viton/Butyl, Nitrile, Silver Shield®/4H®, Viton and Barrier® (>8-hr breakthrough for *Hydrocarbons*)

**Coveralls:** Tychem® F, BR, CSM and TK (>8-hr breakthrough for *Hydrocarbons*)

**Respirator:** Spill - full facepiece APR with Organic vapor filters and P100 prefilters  
 Fire/Large Spill - SCBA

### HEALTH EFFECTS

**Eyes:** Irritation and burns

**Skin:** Irritation and burns with rash, itching and redness

**Inhalation:** Nose, throat and lung irritation with coughing, wheezing and shortness of breath

Headache, nausea, vomiting, dizziness, seizures, and a loss of consciousness

### 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 soap and water.

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

**Transfer** promptly to a medical facility.