

Common Name: **ALLYL FORMATE**

Synonyms: Formic Acid, Allyl Ester

CAS No: 1838-59-1

 Molecular Formula: C₄H₆O₂

RTK Substance No: 0042

Description: Colorless, clear liquid

HAZARD DATA

Hazard Rating	Firefighting	Reactivity
3 - Health 3 - Fire 0 - Reactivity DOT#: UN 2336 ERG Guide #: 131 Hazard Class: 3 (Flammable)	Allyl Formate is a FLAMMABLE LIQUID. Use dry chemical, CO ₂ , water spray or alcohol-resistant foam as extinguishing agents. Solid streams of water may spread fire. POISONOUS GASES ARE PRODUCED IN FIRE. CONTAINERS MAY EXPLODE IN FIRE. Use water spray to keep fire-exposed containers cool. Vapors may travel to a source of ignition and flash back. Allyl Formate may form an ignitable vapor/air mixture in closed tanks or containers.	Allyl Formate 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).

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.

 Keep **Allyl Formate** out of confined spaces, such as sewers, because of the possibility of an explosion.

 Use only non-sparking tools and equipment, especially when opening and closing containers of **Allyl Formate**.

PHYSICAL PROPERTIES

Flash Point: 5° to 67°F (-15° to 19.4°C)

Specific Gravity: 0.95 (water = 1)

Water Solubility: Slightly soluble

Boiling Point: 180° to 183°F (82° to 84°C)

Molecular Weight: 86.1

EXPOSURE LIMITS

 No occupational exposure limits have been established for **Allyl Formate**.

The Protective Action Criteria values are:

 PAC-1 = 12.5 mg/m³ (4 ppm)

 PAC-2 = 75 mg/m³ (21 ppm)

 PAC-3 = 400 mg/m³ (114 ppm)

PROTECTIVE EQUIPMENT

Gloves: Butyl (1 to 4-hr breakthrough for *Esters, Carboxylic, Formates*)

Coveralls: Tychem® BR, Responder® and TK (>8-hr breakthrough for *Esters, Carboxylic*)

Respirator: SCBA

HEALTH EFFECTS

Eyes: Irritation

Skin: Irritation

Inhalation: Nose and throat irritation

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.

Remove contaminated clothing and wash contaminated skin with soap and water.

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

Transfer promptly to a medical facility.