

Common Name: **BUTYL PROPIONATE**

Synonyms: Butyl Propanoate

CAS No: 590-01-2

 Molecular Formula: C₇H₁₄O₂

RTK Substance No: 0295

Description: Colorless liquid with a fruity odor

HAZARD DATA

Hazard Rating	Firefighting	Reactivity
2 - Health 3 - Fire 0 - Reactivity DOT#: UN 1914 ERG Guide #: 130 Hazard Class: 3 (Flammable)	FLAMMABLE LIQUID Use dry chemical, CO ₂ , water spray or alcohol-resistant foam as extinguishing agents. Solid streams of water may be ineffective. 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. Vapor is heavier than air and may travel a distance to cause a fire or explosion far from the source.	Butyl Propionate will react with ALKALI METALS (such as LITHIUM, SODIUM and POTASSIUM) to produce flammable and explosive <i>Hydrogen gas</i> . Butyl Propionate is not compatible with OXIDIZING AGENTS (such as PERCHLORATES, PEROXIDES, PERMANGANATES, CHLORATES, NITRATES, CHLORINE, BROMINE and FLUORINE). Butyl Propionate will react with STRONG ACIDS (such as HYDROCHLORIC, SULFURIC and NITRIC) to release heat.

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 **Butyl Propionate** out of confined spaces, such as sewers, because of the possibility of an explosion.

DO NOT wash into sewer.

PHYSICAL PROPERTIES

Flash Point:	90°F (32°C)
Auto Ignition Temp:	799°F (426°C)
Vapor Density:	4.5 (air = 1)
Vapor Pressure:	2.8 mm Hg at 68°F (20°C)
Specific Gravity:	0.9 (water = 1)
Water Solubility:	Insoluble
Boiling Point:	295°F (146°C)
Melting Point:	-128°F (-90°C)
Molecular Weight:	130.2

EXPOSURE LIMITS

The Protective Action Criteria values are:

PAC-1 = 94 ppm

PAC-2 = 94 ppm

PAC-3 = 94 ppm

PROTECTIVE EQUIPMENT

Gloves:	Nitrile and Barrier® (>8-hr breakthrough for <i>Esters, aliphatic</i>)
Coveralls:	Tychem® BR, LV, Responder®, and TK (>8-hr breakthrough for <i>Esters, aliphatic</i>)
Respirator:	>94 ppm - Supplied air

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.