

Common Name: **BUTYRIC ACID**

Synonyms: Ethylacetic Acid; 1-Propanecarboxylic Acid

CAS No: 107-92-6

Molecular Formula: C₄H₈O₂

RTK Substance No: 0300

Description: Colorless, oily liquid with a strong characteristic odor

HAZARD DATA

Hazard Rating	Firefighting	Reactivity
<p>3 - Health</p> <p>2 - Fire</p> <p>0 - Reactivity</p> <p>DOT#: UN 2820</p> <p>ERG Guide #: 153</p> <p>Hazard Class: 8 (Corrosive)</p>	<p>Butyric Acid is a COMBUSTIBLE LIQUID.</p> <p>Use dry chemical, CO₂, water spray or alcohol-resistant foam as extinguishing agents.</p> <p>POISONOUS GASES ARE PRODUCED IN FIRE. CONTAINERS MAY EXPLODE IN FIRE.</p> <p>Use water spray to keep fire-exposed containers cool.</p> <p>Vapors may travel to a source of ignition and flash back.</p>	<p>Butyric Acid reacts with OXIDIZING AGENTS (such as PERCHLORATES, PEROXIDES, PERMANGANATES, CHLORATES, NITRATES, CHLORINE, BROMINE and FLUORINE); STRONG BASES (such as SODIUM HYDROXIDE and POTASSIUM HYDROXIDE); REDUCING AGENTS; and CHROMIUM TRIOXIDES.</p> <p>Contact with ALUMINUM and other METALS may release flammable and explosive <i>Hydrogen gas</i>.</p>

SPILL/LEAKS

Isolation Distance:

Small Spills: 60 meters (200 feet)

Large Spills: 330 meters (1,100 feet)

Cover with dry lime, sand or soda ash, and place in covered containers for disposal.

DO NOT let this chemical enter the environment.

PHYSICAL PROPERTIES

Odor Threshold:	Strong odor
Flash Point:	161°F (72°C)
LEL:	2%
UEL:	10%
Relative Vapor Density:	3 (air = 1)
Vapor Pressure:	0.43 mm Hg at 68°F (20°C)
Relative Density:	0.96 (water = 1)
Water Solubility:	Soluble
Boiling Point:	327°F (164°C)
Melting Point:	17°F (-8°C)

EXPOSURE LIMITS

No occupational exposure limits have been established.

PROTECTIVE EQUIPMENT

Gloves:	Viton® or Butyl (>8-hr breakthrough)
Coveralls:	DuPont Tychem® Responder® and CSM (>8-hr breakthrough)
Boots:	Butyl
Respirator:	Supplied air

HEALTH EFFECTS

Eyes:	Irritation and burns
Skin:	Irritation and burns
Acute:	Irritation of nose, throat and lungs with coughing, wheezing, and/or shortness of breath
Chronic:	Cough, phlegm and shortness of breath

FIRST AID AND DECONTAMINATION

Remove the person from exposure.

Flush eyes with large amounts of water for at least 30 minutes. Remove contact lenses if worn. Seek medical attention immediately.

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

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

Transfer to a medical facility.