

Common Name: **ISOBUTYL ISOBUTYRATE**

Synonyms: 2-Methylpropyl Isobutyrate

CAS No: 97-85-8

 Molecular Formula: C₈H₁₆O₂

RTK Substance No: 1047

Description: Colorless, clear liquid with a fruity odor

HAZARD DATA

Hazard Rating	Firefighting	Reactivity
0 - Health 3 - Fire 0 - Reactivity DOT#: UN 2528 ERG Guide #: 130 Hazard Class: 3 (Flammable)	Isobutyl Isobutyrate is a FLAMMABLE LIQUID and a DANGEROUS FIRE HAZARD . Use alcohol foam extinguishers in a fire. Water may not be effective in fighting fires or 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. Vapor is heavier than air and may travel a distance to cause a fire or explosion far from the source.	Isobutyl Isobutyrate is not compatible with OXIDIZING AGENTS (such as PERCHLORATES, PEROXIDES, PERMANGANATES, CHLORATES, NITRATES, CHLORINE, BROMINE and FLUORINE) and STRONG BASES (such as SODIUM HYDROXIDE and POTASSIUM HYDROXIDE).

SPILL/LEAKS
Isolation Distance:

Small Spills: 50 meters (150 feet)

Large Spills: 300 meters (1,000 feet)

Fire: 800 meters (1/2 mile)

Absorb liquids in vermiculite, dry sand, earth, or a similar material and deposit in sealed containers.

This chemical floats on water.

DO NOT let this chemical enter the environment.

PHYSICAL PROPERTIES

Odor Threshold:	Fruity odor
Flash Point:	101°F (38°C)
LEL:	0.96%
UEL:	7.59%
Vapor Density:	4.97 (air = 1)
Vapor Pressure:	10 mm Hg at 68°F (20°C)
Specific Gravity:	0.9 (water = 1)
Water Solubility:	Insoluble
Boiling Point:	291° to 304°F (144° to 151°C)
Melting Point:	-112°F (-81°C)
Molecular Weight:	144.2

EXPOSURE LIMITS

 No occupational exposure limits have been established for **Isobutyl Isobutyrate**.

PROTECTIVE EQUIPMENT

Gloves:	Silver Shield®/4H® (>8-hr breakthrough)
Coveralls:	DuPont Tychem® CPF 3, CPF 4, BR and LV, Responder® and TK, or equivalent, for <i>liquid organics</i> (>8-hr breakthrough)
Boots:	No information
Respirator:	Supplied air for high exposure

HEALTH EFFECTS

Eyes:	Irritation
Skin:	Irritation
Inhalation:	Headache and dizziness

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.
Transfer to a medical facility.