

Common Name: METHYL BENZOATE

Synonyms: Methyl Benzenecarboxylate; Niobe Oil

CAS No: 93-58-3

 Molecular Formula: C₈H₈O₂

RTK Substance No: 1230

Description: Colorless, oily liquid with a pleasant, fruity odor

HAZARD DATA

Hazard Rating	Firefighting	Reactivity
1 - Health	COMBUSTIBLE LIQUID	Methyl Benzoate may react with STRONG BASES (such as SODIUM HYDROXIDE and POTASSIUM HYDROXIDE) and REDUCING AGENTS (such as LITHIUM, SODIUM, ALUMINUM and their HYDRIDES) to form flammable and explosive <i>Hydrogen gas</i> .
2 - Fire	Use dry chemical, CO ₂ or foam as extinguishing agents.	Methyl Benzoate 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).
0 - Reactivity	Water spray may be used to blanket fire. DO NOT USE solid water jets.	Methyl Benzoate decomposes slowly on contact with WATER.
DOT#: UN 2938	POISONOUS GASES ARE PRODUCED IN FIRE.	
ERG Guide #: 152	Use water spray to keep fire-exposed containers cool.	
Hazard Class: 6.1 (Poison)		

SPILL/LEAKS
Isolation Distance:

Spills: 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.

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

DO NOT wash into sewer.

PHYSICAL PROPERTIES

Odor Threshold:	Pleasant, fruity odor
Flash Point:	181°F (83°C)
Vapor Density:	4.7 (air = 1)
Vapor Pressure:	1 mm Hg at 102°F (39°C)
Specific Gravity:	1.1 (water = 1)
Water Solubility:	Very slightly soluble
Boiling Point:	302°F (150°C)
Freezing Point:	10°F (-12°C)
Ionization Potential:	9.3 +/- 2 eV
Molecular Weight:	136.1

EXPOSURE LIMITS

The Protective Action Criteria values are:

PAC-1 = 6 ppm

PAC-2 = 40 ppm

PAC-3 = 75 ppm

PROTECTIVE EQUIPMENT

Gloves:	Butyl, Nitrile, Polyvinyl Alcohol, and Viton (>8-hr breakthrough for <i>Esters, Carboxylic</i>)
Coveralls:	Tychem® F, BR, LV, Responder®, and TK (>8-hr breakthrough for <i>Esters, Carboxylic</i>)
Respirator:	>6 ppm - SCBA

HEALTH EFFECTS
Eyes: Irritation

Skin: Irritation

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

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.