

Common Name: **BENZ(a)ANTHRACENE, 7,12-DIMETHYL-**

Synonyms: 7,12 DMBA; 9,10-Dimethyl-1,2-Benzanthracene

CAS No: 57-97-6

 Molecular Formula: C₂₀H₁₆

RTK Substance No: 0194

Description: Yellow to greenish-yellow, crystalline solid or yellow powder

HAZARD DATA

Hazard Rating	Firefighting	Reactivity
2 - Health 2 - Fire 0 - Reactivity DOT#: UN 3077 ERG Guide #: 171 Hazard Class: 9 (Environmentally Hazardous Material)	COMBUSTIBLE SOLID Use dry chemical, CO ₂ , water spray or foam as extinguishing agents. POISONOUS GASES ARE PRODUCED IN FIRE, including <i>Nitrogen Oxides</i> and <i>Sulfur Oxides</i> . Use water spray to keep fire-exposed containers cool.	Benz(a)Anthracene, 7,12-Dimethyl- is not compatible with OXIDIZING AGENTS (such as PERCHLORATES, PEROXIDES, PERMANGANATES, CHLORATES, NITRATES, CHLORINE, BROMINE and FLUORINE); STRONG ACIDS (such as HYDROCHLORIC, SULFURIC and NITRIC); and STRONG BASES (such as SODIUM HYDROXIDE and POTASSIUM HYDROXIDE).

SPILL/LEAKS
Isolation Distance:

Spill: 25 meters (75 feet)

Fire: 800 meters (1/2 mile)

Moisten spilled material first or use a HEPA-filter vacuum for clean-up and deposit into sealed containers.

DO NOT wash into sewer.

PHYSICAL PROPERTIES
Odor Threshold: Odorless

Flash Point: 187°F (86°C)

Water Solubility: Insoluble

Melting Point: 252° to 253°F (122° to 123°C)

Molecular Weight: 256.4

EXPOSURE LIMITS
OSHA: 0.2 mg/m³, 8-hr TWA

NIOSH: 0.1 mg/m³, 10-hr TWA

ACGIH: Lowest level possible

IDLH: 80 mg/m³

 (All the above are for *Coal Tar Pitch Volatiles*)

PROTECTIVE EQUIPMENT
Gloves: Polyvinyl Alcohol, Silver Shield®/4H® and Viton

Coveralls: DuPont Tyvek®

Respirator: >0.1 mg/m³ (as *Coal Tar Pitch Volatiles*) - Supplied air

HEALTH EFFECTS
Eyes: Irritation and burns

Skin: Irritation and burns

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

Chronic: Cancer (skin, lung, mammary) in animals

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. Immediately 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.