



SIGMA-ALDRICH

# Material Safety Data Sheet

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Version 1.40

## Section 1 - Product and Company Information

**Product Name** ANTHRACENE-D10, 100MG, NEAT  
**Product Number** 442456  
**Brand** Supelco Chemical

**Company** Sigma-Aldrich  
**Street Address** 3050 Spruce Street  
**City, State, Zip, Country** SAINT LOUIS, MO 63103 US  
**Technical Phone:** 800-325-5832  
**Fax:** 800-325-5052

**Emergency Phone:** 314-776-6555

## Section 2 - Composition/Information on Ingredient

Substance Name	CAS #	SARA 313	EC no	Annex I Index Number
ANTHRACENE-D(10), >98% (ATOM % D)	1719-06-8	No	217-004-5	
<b>Formula</b>	C14D10			
<b>Synonyms</b>				

## Section 3 - Hazards Identification

### Emergency Overview

Irritant. Dangerous for the environment.  
Irritating to eyes, respiratory system and skin. Very toxic to aquatic organisms.  
Photosensitizer. Lachrymator. Target organ(s): Lungs. Kidneys.

**HMIS Rating**  
Health: 3\*      Flammability: 0      Reactivity: 1

**NFPA Rating**  
Health: 3      Flammability: 0      Reactivity: 1

\*additional chronic hazards present.

For additional information on toxicity, please refer to Section 11.

## Section 4 - First Aid Measures

### Oral Exposure

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

### Inhalation Exposure

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

### Dermal Exposure

In case of contact, immediately wash skin with soap and copious amounts of water.

### Eye Exposure

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

## Section 5 - Fire Fighting Measures

**Flash Point:** 249.8 °F      121 °C

**Autoignition Temp:** N/A

### Extinguishing Media

**Suitable**  
Water spray, Carbon dioxide, dry chemical powder, or appropriate foam.

### Firefighting

#### Protective Equipment

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

#### Specific Hazard(s)

Emits toxic fumes under fire conditions.

## Section 6 - Accidental Release Measures

### Procedure(s) of Personal Precaution(s)

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

### Methods for Cleaning Up

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

## Section 7 - Handling and Storage

### Handling

#### User Exposure

Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

### Storage

#### Suitable

Keep tightly closed.

### Special Requirements

Hygroscopic. Store under inert gas.

## Section 8 - Exposure Controls / PPE

### Engineering Controls

Safety shower and eye bath. Mechanical exhaust required.

### Personal Protective Equipment

#### Respiratory

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator.

#### Hand

Compatible chemical-resistant gloves.

#### Eye

Chemical safety goggles.

Supelco Chemical - 442456  
Page 2

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**General Hygiene Measures**  
Wash thoroughly after handling.

## Section 9 - Physical/Chemical Properties

Appearance	Color	Form
	Faintly beige	Powder
<b>Molecular Weight</b>	188.32 AMU	
<b>pH</b>	N/A	
<b>BP/BP Range</b>	N/A	
<b>MP/MP Range</b>	218 °C	
<b>Freezing Point</b>	N/A	
<b>Vapor Pressure</b>	N/A	
<b>Vapor Density</b>	N/A	
<b>Saturated Vapor Conc.</b>	N/A	
<b>SG/Density</b>	N/A	
<b>Bulk Density</b>	N/A	
<b>Odor Threshold</b>	N/A	
<b>Volatile%</b>	N/A	
<b>VOC Content</b>	N/A	
<b>Water Content</b>	N/A	
<b>Solvent Content</b>	N/A	
<b>Evaporation Rate</b>	N/A	
<b>Viscosity</b>	N/A	
<b>Partition Coefficient</b>	N/A	
<b>Decomposition Temp.</b>	N/A	
<b>Flash Point °F</b>	249.8 °F	Method: closed cup
<b>Flash Point °C</b>	121 °C	Method: closed cup
<b>Explosion Limits</b>	N/A	
<b>Flammability</b>	N/A	
<b>Autoignition Temp</b>	N/A	
<b>Solubility</b>	N/A	

N/A = not available

## Section 10 - Stability and Reactivity

**Stability**  
**Stable**  
Stable.  
**Conditions to Avoid**  
Moisture.  
**Materials to Avoid**  
Strong oxidizing agents, Hypochlorites, Chromic acid, Fluorine

**Hazardous Decomposition Products**  
**Hazardous Decomposition Products**  
Carbon monoxide, Carbon dioxide

**Hazardous Polymerization**  
**Hazardous Polymerization**  
Will not occur.

## Section 11 - Toxicological Information

### Route of Exposure

#### Skin Contact

Causes skin irritation.

#### Skin Absorption

May be harmful if absorbed through the skin.

#### Eye Contact

Causes eye irritation, Lachrymator.

#### Inhalation

Material is irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

#### Ingestion

May be harmful if swallowed.

### Sensitization

#### Sensitization

Causes photosensitivity. Exposure to light can result in allergic reactions resulting in dermatologic lesions, which can vary from sunburnlike responses to edematous, vesiculated lesions, or bullae.

### Target Organ(s) or System(s)

Lungs, Kidneys, Bladder, Blood.

### Signs and Symptoms of Exposure

Possible tumor promoter. Exposure can cause: Headache, Nausea, Weakness.

**RTECS Number:** N/A

### Chronic Exposure - Carcinogen

Result: This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

## Section 12 - Ecological Information

No data available.

## Section 13 - Disposal Considerations

### Appropriate Method of Disposal of Substance or Preparation

Contact a licensed professional waste disposal service to dispose of this material.  
Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.  
Observe all federal, state, and local environmental regulations.

## Section 14 - Transport Information

### DOT

**Proper Shipping Name:** Environmentally hazardous substances, solid, n.o.s.  
**UN#:** 3077  
**Class:** 9  
**Packing Group:** Packing Group III  
**Hazard Label:** Class 9  
**PIH:** Not PIH

### IATA

**Proper Shipping Name:** Environmentally hazardous substance, solid, n.o.s.  
**IATA UN Number:** 3077  
**Hazard Class:** 9  
**Packing Group:** III

## Section 15 - Regulatory Information

### EU Additional Classification

**Symbol of Danger:** Xi N

**Indication of Danger**

Irritant. Dangerous for the environment.

**Risk Statements** R: 36/37/38 50/53

Irritating to eyes, respiratory system and skin. Very toxic to aquatic organisms. may cause longterm adverse effects in the aquatic environment.

**Safety Statements** S: 26 60 61

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/safety data sheets.

### US Classification and Label Text

**Indication of Danger**

Irritant. Dangerous for the environment.

**Risk Statements**

Irritating to eyes, respiratory system and skin. Very toxic to aquatic organisms

**Safety Statements**

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing. This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/safety data sheets.

**US Statements**

Photosensitizer. Lachrymator. Target organ(s): Lungs, Kidneys.

### United States Regulatory Information

**SARA Listed:** No

### Canada Regulatory Information

**WHMIS Classification**

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

**DSL:** No

**NDSL:** No

## Section 16 - Other Information

### Disclaimer

For R&D use only. Not for drug, household or other uses.

### Warranty

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2008 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

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