



## Material Safety Data Sheet

Date Printed: 12/29/2009  
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Version 1.30

### Section 1 - Product and Company Information

**Product Name** Pyrene-d<sub>10</sub>, 98 atom % D  
**Product Number** 490695  
**Brand** Aldrich Chemical

**Company** Sigma-Aldrich  
**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

| <u>Substance Name</u>   | <u>CAS #</u> | <u>SARA 313</u> | <u>EC no</u> | <u>Annex I Index Number</u> |
|-------------------------|--------------|-----------------|--------------|-----------------------------|
| PYRENE-D10, 98 ATOM % D | 1718-52-1    | No              |              |                             |

**Formula** C<sub>16</sub>D<sub>10</sub>  
**Synonyms**

### Section 3 - Hazards Identification

#### Emergency Overview

Harmful  
Harmful if swallowed. Irritating to eyes, respiratory system and skin.  
Readily absorbed through skin. Target organ(s): Blood, Liver.

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

**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.

### Section 6 - Accidental Release Measures

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

Wear self-contained breathing apparatus, 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. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

#### Storage

##### Suitable

Keep tightly closed. Store in a cool dry place.

### Section 8 - Exposure Controls / PPE

#### Engineering Controls

Mechanical exhaust required. Safety shower and eye bath.

#### Personal Protective Equipment

##### Other

Wear appropriate government approved respirator, chemical resistant gloves, safety goggles, other protective clothing.

#### General Hygiene Measures

Wash thoroughly after handling. Wash contaminated clothing before reuse.

### Section 9 - Physical/Chemical Properties

**Molecular Weight** 212.34 AMU

**pH** N/A  
**BP/BP Range** N/A  
**MP/MP Range** 149 - 153 °C  
**Freezing Point** N/A  
**Vapor Pressure** N/A  
**Vapor Density** N/A  
**Saturated Vapor Conc.** N/A  
**SG/Density** N/A  
**Bulk Density** N/A  
**Odor Threshold** N/A  
**Volatile%** N/A  
**VOC Content** N/A  
**Water Content** N/A  
**Solvent Content** N/A  
**Evaporation Rate** N/A

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Viscosity N/A  
Partition Coefficient N/A  
Decomposition Temp. N/A  
Flash Point °F N/A  
Flash Point °C N/A

Explosion Limits N/A

Flammability N/A  
Autoignition Temp N/A  
Solubility N/A

N/A = not available

## Section 10 - Stability and Reactivity

**Stability**  
**Materials to Avoid**  
Strong oxidizing agents.

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

## Section 11 - Toxicological Information

**Route of Exposure**  
**Skin Absorption**  
May be harmful if absorbed through the skin.  
**Inhalation**  
May be harmful if inhaled.  
**Ingestion**  
Harmful if swallowed.  
**Multiple Routes**  
Causes eye and skin irritation.

**Target Organ(s) or System(s)**  
Liver, Blood, Kidneys.

**Signs and Symptoms of Exposure**  
Inhalation studies in animals have caused hepatic, pulmonary, and intragastric pathologic changes. Neutrophil, leukocyte, and erythrocyte levels also decreased. Cutaneous application caused hyperemia, weight loss, and hematopoietic changes and dermatitis. Chronic effects: leukocytosis. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

RTECS Number: N/A

## Section 12 - Ecological Information

No data available.

## Section 13 - Disposal Considerations

**Appropriate Method of Disposal of Substance or Preparation**  
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.

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UN#: 3077  
Class: 9  
Packing Group: Packing Group III  
Hazard Label: Class 9  
PIH: Not PIH

**IATA**  
**Non-Hazardous for Air Transport** Non-hazardous for air transport.

## Section 15 - Regulatory Information

**EU Additional Classification**  
**Symbol of Danger:** Xn  
**Indication of Danger**  
Harmful.  
**Risk Statements** R: 22 36/37/38  
Harmful if swallowed, Irritating to eyes, respiratory system and skin.  
**Safety Statements** S: 26 36  
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

**US Classification and Label Text**  
**Indication of Danger**  
Harmful.  
**Risk Statements**  
Harmful if swallowed, Irritating to eyes, respiratory system and skin.  
**Safety Statements**  
Wear suitable protective clothing. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
**US Statements**  
Readily absorbed through skin. Target organ(s): Blood, Liver.

**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. SigmaAldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice packing slip for additional terms and conditions of sale. Copyright 2009 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

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