

Material Safety Data Sheet

Date Printed: 09/12/2008 Date Updated: 02/02/2006 Version 1.30

Section 1 - Product and Company Information

Product Name Product Number 1,3-Dinitropyrene, 99% 284335

Brand

Aldrich Chemical

Company Street Address Sigma-Aldrich 3050 Spruce Street

City, State, Zip, Country Technical Phone:

SAINT LOUIS, MO 63103 US

800-325-5832 800-325-5052 **Emergency Phone:**

314-776-6555

Section 2 - Composition/Information on Ingredient

Substance Name

Fax:

CAS# 75321-20-9 **SARA 313** No

EC no

Annex I Index Number

1,3-DINITROPYRENE

C16H8N2O4 1,3-Dinitropyrene

Section 3 - Hazards Identification

Emergency Overview

Harmful

Formula

Synonyms

Harmful by inhalation, in contact with skin and if swallowed

Possible carcinogen

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

Section 4 - First Aid Measures

Immediate Treatment- Work Site

In case of contact, immediately flush eyes or skin with copious amounts of water for at least 15 minutes while removingontaminated clothing and shoes

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.

Section 5 - Fire Fighting Measures

Autoignition Temp:

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 to be Followed in Case of Leak or Spill

Evacuate area.

Procedure(s) of Personal Precaution(s)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves/Vear disposable coveralls and discard them after

Methods for Cleaning Up

Sweep up, place in a bag and hold for waste disposal. Ventilate area and wash spill site aftermaterial pickup is complete.

Section 7 - Handling and Storage

Handling

User Exposure

Do not breathe dust Avoid all contact. Avoid prolonged or repeated exposure.

Suitable

Keep tightly closed. Store in a cool dry place.

Section 8 - Exposure Controls / PPE

Engineering Controls

Safety shower and eye bath. Use only in a chemical fume hood.

Personal Protective Equipment

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

General Hygiene Measures

Wash thoroughly after handling Discard contaminated clothing and shoes.

Section 9 - Physical/Chemical Properties

Molecular Weight	292.25 AMU		
На	N/A		
BP/BP Range	N/A		
MP/MP Range	N/A		
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		

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N/A = not available

Section 10 - Stability and Reactivity

Stability

Materials to Avoid

Strong oxidizing agents, Strong bases

Hazardous Decomposition Products

Hazardous Decomposition Products

Carbon monoxide, Carbon dioxide, Nitrogen oxides

Section 11 - Toxicological Information

Route of Exposure

Multiple Routes

Harmful if swallowed, inhaled, or absorbed through skin.May cause irritation.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

RTECS Number: UR2454000

Chronic Exposure - Carcinogen

Rat - Intraperitoneal: 23 MG/KG 4W |

Result: Tumorigenic:Carcinogenic by RTECS criteria Skin and Appendages: Other: Tumors

Rat - Subcutaneous: 16 MG/KG 10W I

Result: Tumorigenic:Carcinogenic by RTECS criteria. Tumorigenic:Tumors at site or application.

Rat - Intraperitoneal: 35071 UG/KG 4W I

Result: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Skin and Appendages: Other: Tumors.

IARC Carcinogen List

Rating Group 3

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Chronic Exposure- Mutagen

Species .	Dose	Cell Type	Mutation test
Human	500 UMOL/L	mammary gland	DNA
Human	1 UMOL/L	Other cell types	Unscheduled DNA synthesis
Human	110 UG/L	liver	Unscheduled DNA synthesis
Human	1 UMOL/L	Other cell types	Mutation in mammalian somatic cells.
Human	58 UG/L	lymphocyte	Mutation in mammalian somatic cells
Rat	110 UG/L	liver	Unscheduled DNA synthesis
Mouse	1100 UG/L	liver	Unscheduled DNA synthesis
Mouse	1 MG/KG	S. typhimurium	Host-mediated assay
Hamster	2 MG/L (+S9)	ovary	Mutation in microorganisms
Hamster	2 MG/L	lung	Cytogenetic analysis
Hamster	2500 UG/L	lung	Mutation in mammalian somatic cells.
Hamster	500 UG/L	ovary	Mutation in mammalian somatic cells.

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

Proper Shipping Name: None

Non-Hazardous for Transport This substance is considered to be nonhazardous for transport.

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: 20/21/22

Harmful by inhalation, in contact with skin and if swallowed.

S: 36

Safety Statements

Wear suitable protective clothing.

US Classification and Label Text

Indication of Danger

Harmful.

Risk Statements

Harmful by inhalation, in contact with skin and if swallowed.

Safety Statements

Wear suitable protective clothing.

US Statements

Possible carcinogen.

United States Regulatory Information

SARA Listed: No

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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

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 stated 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. Sigmaldrich Inc., shall not be held liable for any damage resulting from handling or form contact with the above product. See reverse side of invoice or packing stip for additional terms and conditions of sale. Copyright2008 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

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