

# SAFETY DATA SHEET

Revision Date 30-Mar-2024

**Revision Number** 3

1. Identification

**Product Name** 

# 3,4,9,10-Perylenetetracarboxylic diimide

Cat No. :

CAS No Synonyms

Recommended Use Uses advised against

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

## Details of the supplier of the safety data sheet

#### **Company**

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757

## Emergency Telephone Number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe:**001-703-527-3887

# 2. Hazard(s) identification

#### <u>Classification</u> Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

44098

81-33-4

No information available

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements None required

<u>Hazards not otherwise classified (HNOC)</u> None identified

3. Composition/Information on Ingredients

Component		CAS No	Weight %	
Anthra[2,1,9-def:6,5,10-d'e'f']diisoqu (2H,9H)-tetrone	inoline-1,3,8,10	81-33-4	<=100	
	4. F	irst-aid measures		
Eye Contact	Rinse immedia medical attenti		the eyelids, for at least 15 minutes. Get	
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.			
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.			
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.			
Most important symptoms and effects	None reasonably foreseeable.			
Notes to Physician	Treat symptomatically			
	5. Fir	e-fighting measures		
Unsuitable Extinguishing Media	No information	n available		

Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower Sensitivity to Mechanical Impact	No data available
Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No information available

## **Specific Hazards Arising from the Chemical**

Keep product and empty container away from heat and sources of ignition.

### **Hazardous Combustion Products**

#### None known.

#### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA Health 0	Flammability 1	<b>Instability</b> 0	Physical hazards -	
	6. Accidental re	lease measures		
Personal Precautions	Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.			
Environmental Precautions	Should not be released int Information.	to the environment. See Section	12 for additional Ecological	

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Up

	7. Handling and storage		
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.		
Storage.	Keep containers tightly closed in a dry, cool and well-ventilated place.		
8. E	xposure controls / personal protection		
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.		
Engineering Measures	None under normal use conditions.		
Personal Protective Equipment			
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.		
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.		
<b>Respiratory Protection</b>	No protective equipment is needed under normal use conditions.		
Recommended Filter type:	Particle filter.		
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.		

9. Physical and chemical properties					
Physical State	Solid				
Appearance	Red				
Odor	No information available				
Odor Threshold	No information available				
рН	No information available				
Melting Point/Range	> 300 °C / 572 °F				
Boiling Point/Range	No information available				
Flash Point	No information available				
Evaporation Rate	Not applicable				
Flammability (solid,gas)	No information available				
Flammability or explosive limits					
Upper	No data available				
Lower	No data available				
Vapor Pressure	No information available				
Vapor Density	Not applicable				
Specific Gravity	No information available				
Solubility	No information available				
Partition coefficient; n-octanol/water	No data available				
Autoignition Temperature	No information available				
Decomposition Temperature	No information available				
Viscosity	Not applicable				
Molecular Formula	C24 H10 N2 O4				
Molecular Weight	390.35				

# 10. Stability and reactivity

**Reactive Hazard** 

None known, based on information available

Stability	Stable under normal conditions.	
Conditions to Avoid	Incompatible products.	
Incompatible Materials	Strong oxidizing agents	
Hazardous Decomposition Products None under normal use conditions		
Hazardous Polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	None under normal processing.	

# 11. Toxicological information

## Acute Toxicity

Product Information Component Information Toxicologically Synergistic Products	No information available
Delayed and immediate effects as w	vell as chronic effects from short and long-term exposure_
Irritation	No information available

No information available

Sensitization

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Anthra[2,1,9-def:6,5,10 -d'e'f']diisoquinoline-1,	81-33-4	Not listed	Not listed	Not listed	Not listed	Not listed
3,8,10(2H,9H)-tetrone						
Mutagenic Effects		No information ava	ailable		•	I
Reproductive Effects	5	No information available.				
Developmental Effect	ts	No information ava	ailable.			
Teratogenicity		No information available.				
STOT - single expos STOT - repeated exp		None known None known				
Aspiration hazard		No information available				
Symptoms / effects, delayed	both acute and	d No information available				
Endocrine Disruptor	Information	No information available				
Other Adverse Effec	ts	The toxicological properties have not been fully investigated.				

12. Ecological information

## Ecotoxicity

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Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Anthra[2,1,9-def:6,5,10-d'e'f']	Not listed	LC50: > 5000 mg/L, 96h	Not listed	Not listed
diisoquinoline-1,3,8,10(2H,9		static (Danio rerio)		
H)-tetrone				
Persistence and Degradal	bility Insoluble in v	vater		

#### **Bioaccumulation/ Accumulation**

Waste Disposal Methods

No information available.

#### Mobility

Is not likely mobile in the environment due its low water solubility.

Component	log Pow
Anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-1,3,8,10(2H,9H)-tetrone	0.8

## 13. Disposal considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information				
DOT	Not regulated			
DOT _TDG IATA_	Not regulated			
	Not regulated			
IMDG/IMO	Not regulated			
15. Regulatory information				

#### United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Anthra[2,1,9-def:6,5,10-d'e'f']diisoq uinoline-1,3,8,10(2H,9H)-tetrone	81-33-4	Х	ACTIVE	Т

#### Legend:

**TSCA** US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

# TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

Not applicable

TSCA 12(b) - Notices of Export

Not applicable

Component	CAS No	TSCA 12(b) - Notices of Export
Anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-1,3,8,10(2H,9	81-33-4	Section 4
H)-tetrone		

#### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Anthra[2,1,9-def:6,5,10-d'e'f']diisoq	81-33-4	Х	-	201-344-6	Х	Х	Х	Х	Х	KE-07867
uinoline-1,3,8,10(2H,9H)-tetrone										

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

### U.S. Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate

classifications.

CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
<b>OSHA</b> - Occupational Safety and Health Administration	Not applicable

### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable
<b>U.S. Department of Transportation</b> Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	
Mexico - Grade	No information available

#### Authorisation/Restrictions according to EU REACH

Not applicable

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization		REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Anthra[2,1,9-def:6,5,10-d'e'f']diisoqu inoline-1,3,8,10(2H,9H)-tetrone	81-33-4	-	-	-

### Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Anthra[2,1,9-def:6,5,10-d'e'f']d iisoquinoline-1,3,8,10(2H,9H)- tetrone		Not applicable	Not applicable	Not applicable	Not applicable

#### Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

## Other International Regulations

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Anthra[2,1,9-def:6,5,10-d'e'f']d iisoquinoline-1,3,8,10(2H,9H)- tetrone		Not applicable	Not applicable	Not applicable	Not applicable

# 16. Other information

Prepared By

Health, Safety and Environmental Department Email: chem.techinfo@thermofisher.com www.thermofisher.com

Revision Date Print Date Revision Summary 30-Mar-2024 30-Mar-2024 New emergency telephone response service provider.

#### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

# **End of SDS**