

SAFETY DATA SHEET

Version 6.7 Revision Date 03/08/2024 Print Date 03/09/2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

	Product name	:	L-Dihydroorotic acid			
	Product Number Brand CAS-No.	:	D7128 Sigma 5988-19-2			
1.2	2 Relevant identified uses of the substance or mixture and uses advised against					
	Identified uses	:	Laboratory chemicals, Synthesis of substances			
	Uses advised against	:	The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by MilliporeSigma.			
1.3	Details of the supplier	of	the safety data sheet			

1.3

Company	:	Sigma-Aldrich Inc. 3050 SPRUCE ST ST. LOUIS MO 63103 UNITED STATES
Telephone Fax		+1 314 771-5765 +1 800 325-5052
Emergency telephone		
Emergency Phone #	:	800-424-9300 CHEMTREC (USA) +1-703- 527-3887 CHEMTREC (International) 24

SECTION 2: Hazards identification

1.4

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin irritation (Category 2), H315 Eye irritation (Category 2A), H319 Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

Hours/day; 7 Days/week

For the full text of the H-Statements mentioned in this Section, see Section 16. Sigma - D7128

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2.2 GHS Label elements, including precautionary statements

Pictogram	
Signal Word	Warning
Hazard Statements H315 H319 H335	Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.
Precautionary Statements P261 P264 P271 P280 P302 + P352 P304 + P340 + P312 P305 + P351 + P338	Avoid breathing dust. Wash skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/ eye protection/ face protection. IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue
P332 + P313 P337 + P313 P362 P403 + P233 P405 P501	rinsing. If skin irritation occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention. Take off contaminated clothing and wash before reuse. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3.1	1 Substances Synonyms : 2,6-Dioxohexahydro-4-pyrimidinecarboxylic acid L-Hydroorotic acid Dihydro-L-orotic acid						
	Formula Molecular weight CAS-No.	:	C₅H ₆ N₂O₄ 158.11 g/mol 5988-19-2				
	Component			Classification	Concentration		
	L-Dihydroorotic acid						
				Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; H315, H319, H335	<= 100 %		

For the full text of the H-Statements mentioned in this Section, see Section 16.

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SECTION 4: First aid measures

- **4.1 Description of first-aid measures** No data available
- **4.2 Most important symptoms and effects, both acute and delayed** The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
- **4.3 Indication of any immediate medical attention and special treatment needed** No data available

SECTION 5: Firefighting measures

- 5.1 Extinguishing media No data available
- 5.2 Special hazards arising from the substance or mixture Carbon oxides Nitrogen oxides (NOx) Combustible.
- **5.3** Advice for firefighters No data available
- **5.4 Further information** No data available

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** For personal protection see section 8.
- 6.2 Environmental precautions No data available
- 6.3 Methods and materials for containment and cleaning up No data available
- **6.4 Reference to other sections** For disposal see section 13.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** For precautions see section 2.2.
- 7.2 Conditions for safe storage, including any incompatibilities No data available

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7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters Contains no substances with occupational exposure limit values.

8.2 Exposure controls

No data available

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

ā	a)	Appearance	Form: solid	
ł	b)	Odor	No data available	
C	c)	Odor Threshold	No data available	
C	d)	рН	No data available	
e		Melting point/freezing point	Melting point/range: 254 - 255 °C (489 - 491 °F) - dec	:.
f		Initial boiling point and boiling range	No data available	
Q	g)	Flash point	()No data available	
ł	h)	Evaporation rate	No data available	
i	-	Flammability (solid, gas)	No data available	
j		Upper/lower flammability or explosive limits	No data available	
ł	k)	Vapor pressure	No data available	
I	I)	Vapor density	No data available	
r	m)	Density	No data available	
		Relative density	No data available	
r	n)	Water solubility	No data available	
(Partition coefficient: n-octanol/water	No data available	
ţ	• •	Autoignition temperature	No data available	
C	q)	Decomposition	No data available	
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temperature

- No data available r) Viscosity
- s) Explosive properties No data available
- Oxidizing properties No data available t)
- 9.2 Other safety information No data available

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No data available
- **10.2** Chemical stability No data available
- 10.3 Possibility of hazardous reactions No data available
- 10.4 Conditions to avoid No data available
- **10.5** Incompatible materials Strong oxidizing agents
- **10.6 Hazardous decomposition products** In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Oral: No data available Inhalation: No data available Dermal: No data available No data available

Skin corrosion/irritation

Remarks: No data available

Serious eye damage/eye irritation Remarks: No data available

Respiratory or skin sensitization No data available

Germ cell mutagenicity No data available

Carcinogenicity

No ingredient of this product present at levels greater than or equal to 0.1% is IARC: Sigma - D7128

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identified as probable, possible or confirmed human carcinogen by IARC.

- NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity

No data available No data available

Specific target organ toxicity - single exposure Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard No data available

11.2 Additional Information

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

SECTION 12: Ecological information

- **12.1 Toxicity** No data available
- 12.2 Persistence and degradability No data available
- **12.3 Bioaccumulative potential** No data available
- **12.4 Mobility in soil** No data available
- 12.5 Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
- **12.6 Endocrine disrupting properties** No data available
- 12.7 Other adverse effects

No data available

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

No data available

SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

ΙΑΤΑ

Not dangerous goods

Further information

Not classified as dangerous in the meaning of transport regulations.

SECTION 15: Regulatory information

SARA 302 Components

This material does not contain any components with a section 302 EHS TPQ.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

No SARA Hazards

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

SECTION 16: Other information

The branding on the header and/or footer of this document may temporarily not visually match the product purchased as we transition our branding. However, all of the information in the document regarding the product remains unchanged and matches the product ordered. For further information please contact mlsbranding@sial.com. Version: 6.7 Revision Date: 03/08/2024 Print Date: 03/09/2024

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