# CAS-No.: 110-94-1 MSDS

# LABOGEN'S

### **MATERIAL SAFETY DATA SHEET (MSDS)**

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

1.1. Product identifier	
Product form	: Substance
	:
EC-No.	: 203-817-2
CAS-No.	: 110-94-1
Product code	: 3965D
Formula	: C5H8O4
Chemical structure	но он
Synonyms	: Pentanedioc acid

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Industrial/Professional use spec

: Industrial For professional use only

#### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Labogens Fine Chem Industries 1st Floor , Above Bank of India, Guru Vihar , Rahon Road, Ludhiana Pb. (141007) +91 9316777775, +91 7707855700 sales@labogens.com - www.Labogens.com

#### 1.4. Emergency telephone number

Emergency number

: +91 7707855700 (9:00am - 6:00 pm)

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

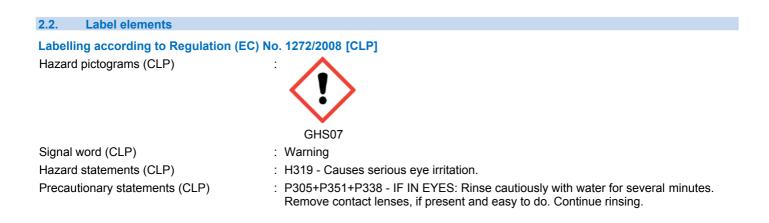
Serious eye damage/eye H319 irritation, Category 2

Full text of H statements : see section 16

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Full text of R-phrases: see section 16

#### Adverse physicochemical, human health and environmental effects No additional information available



SECTION 3: Composition/information on ingredients			
3.1. Substances			
Name	: GLUTARIC ACID For Synthesis		
CAS-No.	: 110-94-1		
EC-No.	: 203-817-2		
CAS-No.	: 110-94-1		

Full text of R- and H-statements: see section 16

#### 3.2. Mixtures

Not applicable

#### **SECTION 4: First aid measures** 4.1. **Description of first aid measures** First-aid measures after inhalation Remove person to fresh air and keep comfortable for breathing. Give oxygen or 1 artificial respiration if necessary. First-aid measures after skin contact : Gently wash with plenty of soap and water. Wash contaminated clothing before reuse. First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention. First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Get medical advice/attention. Most important symptoms and effects, both acute and delayed 4.2. Symptoms/effects after eye contact : Causes serious eye irritation.

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4.3. Indication of any immediate medical attention and special treatment needed			
Treat symptomatically.			
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	: Water spray. Foam. Dry powder. Carbon dioxide.		
Unsuitable extinguishing media	: Do not use a heavy water stream.		
5.2. Special hazards arising from the	substance or mixture		
No additional information available			
5.3. Advice for firefighters			
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.		
<b>SECTION 6: Accidental release measures</b>			
6.1. Personal precautions, protective	equipment and emergency procedures		
	equipment and emergency procedures		
6.1.1. For non-emergency personnel			
Emergency procedures	: Evacuate unnecessary personnel.		
6.1.2. For emergency responders			
Protective equipment	: Use personal protective equipment as required.		
Emergency procedures	: Ventilate area.		
6.2. Environmental precautions			
Avoid release to the environment.			
6.3. Methods and material for contain	iment and cleaning up		
Methods for cleaning up	: Collect spillage. On land, sweep or shovel into suitable containers.		
0.1			
6.4. Reference to other sections			
No additional information available			
SECTION 7: Handling and storage			
7.1. Precautions for safe handling	· · · · · · · · · · · · · · · · · · ·		
Precautions for safe handling	: Avoid contact with skin and eyes. Do not breathe vapours.		
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.		
7.2. Conditions for safe storage, including any incompatibilities			
Storage conditions	: Keep container tightly closed.		
7.3. Specific end use(s)			
No additional information available			
SECTION 8: Exposure controls/personal protection			
SECTION 0. Exposure controls/personal			
8.1. Control parameters			
No additional information available			

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8.2. Exposure controls	
Hand protection	: Protective gloves
Eye protection	: Chemical goggles or safety glasses
Skin and body protection	: Wear suitable protective clothing : [In case of inadequate ventilation] wear respiratory protection.
Respiratory protection SECTION 9: Physical and chemical prop	
9.1. Information on basic physical an Physical state	: Solid
Molecular mass Colour	: 132.11 g/mol : White to off white.
Odour	: No data available
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	
10.1.ReactivityNo additional information available	
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10.2.	Chemical stability		
Stable u	inder normal conditions.		
10.3.	Possibility of hazardous reactions		
No addi	tional information available		
10.4.	Conditions to avoid		
Direct s	unlight. Extremely high or low terr	peratures.	
10.5.	Incompatible materials		
No addi	tional information available		
10.6.	Hazardous decomposition pro	ducts	
No addi	tional information available		
SECTIC	N 11: Toxicological information	n de la constante de	
11.1.	Information on toxicological e	ffects	
Acute to	oxicity	: Not classified	
Skin co	rrosion/irritation	: Not classified	
Serious	eye damage/irritation	: Causes serious eye irritation.	
	tory or skin sensitisation	: Not classified	
	ell mutagenicity	: Not classified	
Carcino		: Not classified	
Reprod	uctive toxicity	: Not classified	
STOT-s	ingle exposure	: Not classified	
STOT-r	epeated exposure	: Not classified	
Aspirati	on hazard	: Not classified	

SECTIO	ON 12: Ecological information	
12.1.	Toxicity	
No add	litional information available	

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

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#### 12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6.	Other	adverse	effects	
No addi	tional in	formatio	n available	

SECTION 13: Disposal considerations

13.1. Waste treatment methods

No additional information available

**SECTION 14: Transport information** 

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number	
UN-No. (ADR)	: Not applicable
UN-No. (IMDG)	: Not applicable
UN-No. (IATA)	: Not applicable
UN-No. (ADN)	: Not applicable
UN-No. (RID)	: Not applicable
14.2. UN proper shipping name	
	· Not applicable
Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
Proper Shipping Name (ADN)	: Not applicable
Proper Shipping Name (RID)	: Not applicable
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: Not applicable
IMDG	
Transport hazard class(es) (IMDG)	: Not applicable
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: Not applicable
ADN	
Transport hazard class(es) (ADN)	: Not applicable
RID	
Transport hazard class(es) (RID)	: Not applicable
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14.4. Packing group	
Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
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Packing group (RID)	: Not applicable
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

#### 14.6. Special precautions for user

#### - Overland transport

No data available

#### - Transport by sea

No data available

- Air transport

No data available

#### - Inland waterway transport

No data available

#### - Rail transport

No data available

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

#### No REACH Annex XVII restrictions

GLUTARIC ACID For Synthesis is not on the REACH Candidate List GLUTARIC ACID For Synthesis is not on the REACH Annex XIV List

#### 15.1.2. National regulations

#### Germany

Reference to AwSV	: Water hazard class (WGK) 1, low hazard to water (Classification according to AwSV; ID No. 1296)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)
<b>Netherlands</b> SZW-liist van kankerverwekkende stoffen	· The substance is not listed

SZW-lijst van kankerverwekkende stoffen	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: The substance is not listed

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NIET-limitatieve lijst van voor de : The substance is not listed voortplanting giftige stoffen – Ontwikkeling

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-statements:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H319	Causes serious eye irritation.
R36	Irritating to eyes
Xi	Irritant

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product