# **1,4 BUTANEDIOL FOR SYNTHESIS MSDS**

# CAS-No.: 110-63-4 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
 :

 CAS-No.
 :
 110-63-4

 Product code
 :
 02377

 Chemical structure
 :
 HQ

	ОН
1.2. Relevant identified uses of the s	substance or mixture and uses advised against
<b>1.2.1.</b> Relevant identified usesUse of the substance/mixture	: Laboratory chemicals, Manufacture of substances
<b>1.2.2.</b> Uses advised against No additional information available	
1.3. Details of the supplier of the sat Labogens Fine Chem Industries 1st Floor , Above Bank of India, Guru Vihar Ludhiana Pb. (141007) +91 9316777775, +91 7707855700 sales@labogens.com - www.Labogens.com	r , Rahon Road,
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]

Acute toxicity (oral), H302 Category 4 Specific target organ H336 toxicity — Single exposure, Category 3, Narcosis

Full text of H statements : see section 16

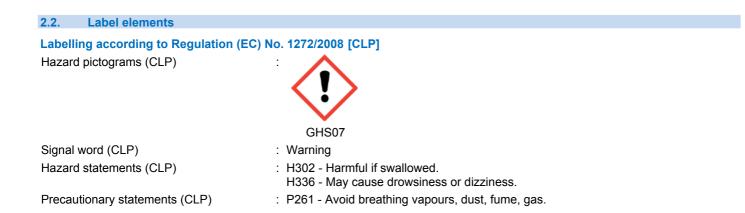
### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Xn; R22 R67

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Full text of R-phrases: see section 16

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



2.3.	Other hazards	
No add	additional information available	

SECTION 3: Composition/information on ingredients			
3.1.	Substances		
Name		: 1,4 BUTANEDIOL For Synthesis	
CAS-N	D.	: 110-63-4	

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 measured	es
First-aid measures after inhalation	<ul> <li>Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.</li> </ul>
First-aid measures after skin contact	: Wash with plenty of water/ Get medical advice/attention.
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 medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Call a POISON CENTER/doctor if you feel unwell.
4.2. Most important symptoms and	effects, both acute and delayed
Symptoms/effects after inhalation	: May cause drowsiness or dizziness.
Symptoms/effects after ingestion	: Harmful if swallowed.

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4.3.	I.3. Indication of any immediate medical attention and special treatment needed			
Treat symptomatically.				
SECTIO	SECTION 5: Firefighting measures			
E 4	Futing windows we die			
5.1. Suitable	Extinguishing media e extinguishing media	: Carbon dioxide. Dry powder. Foam. Water spray.		
	ble extinguishing media	: Do not use a heavy water stream.		
Unsulta				
5.2.	Special hazards arising from the	substance or mixture		
No addi	tional information available			
5.3.	Advice for firefighters			
Protecti	on during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.		
SECTIO	N 6: Accidental release measures	s		
6.1.	Personal proceptions, protective	e equipment and emergency procedures		
		equipment and emergency procedures		
6.1.1.	For non-emergency personnel			
Emerge	ncy procedures	: Evacuate unnecessary personnel.		
6.1.2.	For emergency responders			
Protecti	ve equipment	: Use personal protective equipment as required.		
Emerge	ncy procedures	: Ventilate area.		
0.0	-			
6.2.	Environmental precautions elease to the environment.			
Avoiu re	elease to the environment.			
6.3.	Methods and material for contain	nment and cleaning up		
Method	Methods for cleaning up : Collect spillage. On land, sweep or shovel into suitable containers.			
0.4				
6.4.	Reference to other sections			
	No additional information available			
SECTIO	N 7: Handling and storage			
7.1.	Precautions for safe handling			
Precaut	ions for safe handling	: Avoid contact with skin and eyes. Use only outdoors or in a well-ventilated area. Do not breathe vapours.		
Hygiene	e measures	: Do not eat, drink or smoke when using this product. 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, incl	uding any incompatibilities		
Storage	conditions	: Keep container tightly closed. Store in a well-ventilated place.		
7.3.	Specific end use(s)			
No addi	tional information available			
SECTIO	N 8: Exposure controls/personal	protection		
8.1.	Control parameters			

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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
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

# SECTION 9: Physical and chemical properties

9.1. Information on basic physical a	nd chemical properties
Physical state	: Liquid
Molecular mass Colour	: 90.12 g/mol : Clear Colorless.
Odour	: odourless.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 16 °C
Freezing point	: No data available
Boiling point	: 230 °C
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	: 3.11
Relative density	: No data available
Density Solubility	: 1.017 g/cm³ : Water: Soluble in water
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

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SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reaction	ns
No additional information available	
10.4. Conditions to avoid	
No additional information available	
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition produced	ucts
No additional information available	
SECTION 11: Toxicological information	
11.1. Information on toxicological effe	ects
Acute toxicity	: Oral: Harmful if swallowed.
, lotte textory	
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Carcinogenicity	
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Potential adverse human health effects	: Harmful if swallowed.
and symptoms	
SECTION 12: Ecological information	
12.1. Toxicity	
No additional information available	

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12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assess	sment
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Product/Packaging disposal	: Dispose of contents/container to hazardous or special waste collection point, in
recommendations	accordance with local, regional, national and/or international regulation.
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IAT	A / 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	
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

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<b>RID</b> Transport hazard class(es) (RID)	: Not applicable
14.4. Packing group	
Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
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	
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#### - 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

1,4 BUTANEDIOL For Synthesis is not on the REACH Candidate List

1,4 BUTANEDIOL For Synthesis is not on the REACH Annex XIV List

### 15.1.2. National regulations

### Germany

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#### Netherlands

SZW-lijst van kankerverwekkende stoffen	
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
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: The substance is not listed
Denmark	
Recommendations Danish Regulation	: Young people below the age of 18 years are not allowed to use the product

**15.2.** Chemical safety assessment No additional information available

# SECTION 16: Other information

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

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H302	Harmful if swallowed.
H336	May cause drowsiness or dizziness.
R22	Harmful if swallowed
R67	Vapours may cause drowsiness and dizziness
Xn	Harmful

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