1,4 BUTANEDIOL FOR SYNTHESIS MSDS



CAS-No.: 110-63-4 MSDS

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	: HO OH

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

1.2.1. Relevant identified uses

Use of the substance/mixture

: Laboratory chemicals, Manufacture of substances

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

LOBA CHEMIE PVT.LTD. 107 Wode House Road, Jehangir Villa, Colaba 400005 Mumbai - INDIA T +91 22 6663 6663 - F +91 22 6663 6699 info@lobachemie.com - www.lobachemie.com

1.4. Emergency telephone number

Emergency number

: + 91 22 6663 6663 (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

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Full text of R-phrases: see section 16

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

 2.2. Label elements

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

 Hazard pictograms (CLP)
 :

 GHS07

 Signal word (CLP)
 :

 Hazard statements (CLP)
 :

 Hazard statements (CLP)
 :

 Hazard statements (CLP)
 :

 Precautionary statements (CLP)
 :

 P261 - Avoid breathing vapours, dust, fume, gas.

2.3.	Other hazards
No add	itional information available

SECTION 3: Composition/information on ingredients			
3.1.	Substances		
Name	: 1,4 BUTANEDIOL For Synthesis		
CAS-No	No. : 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 measure	S
First-aid measures after inhalation	 Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
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.

4.3. Indication of any immediate medical attention and special treatment needed Treat symptomatically.			
SECTION 5:	Firefighting measures		
Suitable extin	nguishing media guishing media tinguishing media	Carbon dioxide. Dry powder. Foam. Water spray.Do not use a heavy water stream.	
5.2. Spec	cial hazards arising from the	substance or mixture	
No additional	information available		
	ce for firefighters		
Protection du	ring firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.	
SECTION 6:	Accidental release measures		
6.1. Pers	onal precautions, protective	equipment and emergency procedures	
	non-emergency personnel	: Evacuate unnecessary personnel.	
Protective equ Emergency pr	rocedures	 : Use personal protective equipment as required. : Ventilate area. 	
	ronmental precautions to the environment.		
6.3. Meth	nods and material for contain	ment and cleaning up	
Methods for c	leaning up	: Collect spillage. On land, sweep or shovel into suitable containers.	
	rence to other sections information available		
SECTION 7: I	Handling and storage		
7.1. Prec	autions for safe handling		
	or safe handling	: Avoid contact with skin and eyes. Use only outdoors or in a well-ventilated area. Do not breathe vapours.	
Hygiene meas	sures	: 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. Con	ditions for safe storage, inclu	uding any incompatibilities	
Storage condi	itions	: Keep container tightly closed. Store in a well-ventilated place.	
	cific end use(s)		
	information available		
SECTION 8: I	Exposure controls/personal	protection	
8.1. Cont	trol parameters		
No additional	information available		

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	: 90.12 g/mol : Clear Colorless.
Colour	
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

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	15		
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 produ	icts		
No additional information available			
SECTION 11: Toxicological information			
11.1. Information on toxicological effe			
Acute toxicity	: Oral: Harmful if swallowed.		
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		
Reproductive toxicity	: Not classified		
STOT-single exposure	: May cause drowsiness or dizziness.		
STOT-repeated exposure	: Not classified		
STOT-Tepealed exposure			
Aspiration hazard	: Not classified		
Potential adverse human health effects and symptoms	: Harmful if swallowed.		
SECTION 12: Ecological information			
12.1. Toxicity			
No additional information available			

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 asses	sment
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	· Disease of contents/containents becauters as an eight of a self-stice solid in
Product/Packaging disposal recommendations	: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IAT	TA / 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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RID	
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. S	pecial	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

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

Reference to AwSV : Water hazard class (WGK) 1, low hazard to water (Classification according to Av ID No. 1338) 12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)	10/05/00/0	= 10
	ot subject of the 12. BlmSchV (Hazardous Incident Ordinance)	
		ccording to AwSV;

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Netherlands

SZW-lijst van kankerverwekkende stoffen SZW-lijst van mutagene stoffen	: The substance is not listed : 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