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 identif	ier
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 add	ditional information available	
1.3.	Details of the supplier of the sa	fety data sheet

SPAN LAB UNIT NO. 14,SKY INDUSTRIAL ESTATE,WALIV, VASAI (E) 401208 Mumbai - INDIA PH: +91 9820509929 info@spanlab.in_www.spanlab.in

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

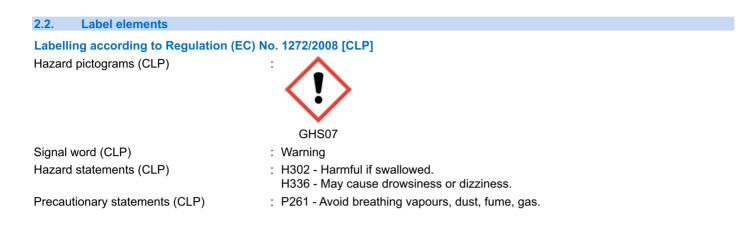
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Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available



2.3.	Other hazards					
No add	ditional information available					

SECTION 3: Composition/information on ingredients			
3.1.	Substances		
Name		: 1,4 BUTANEDIOL For Synthesis	
CAS-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 measur	es
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	l 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.		lical attention and special treatment needed
	mptomatically.	
SECTIO	ON 5: Firefighting measures	
5.1.	Extinguishing media	
Suitable	extinguishing media	: Carbon dioxide. Dry powder. Foam. Water spray.
Unsuita	ble extinguishing media	: Do not use a heavy water stream.
5.2. No addi	Special hazards arising from the tional information available	substance or mixture
5.3.	Advice for firefighters	
Protecti	on during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTIO	ON 6: Accidental release measures	3
6.1.	Personal precautions, protective	equipment and emergency procedures
6.1.1.	For non-emergency personnel	
	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.
6.2.	Environmental precautions	
Avoid re	elease to the environment.	
6.3.	Methods and material for contain	nment and cleaning up
Method	s for cleaning up	: Collect spillage. On land, sweep or shovel into suitable containers.
6.4.	Reference to other sections	
No addi	tional information available	
SECTIO	ON 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	ON 8: Exposure controls/personal	protection
8.1.	Control parameters	

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
pH	: 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	ne
No additional information available	13
10.4. Conditions to avoid	
No additional information available	
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition produced	ucte
No additional information available	
SECTION 11: Toxicological information	
11.1. Information on toxicological effe	: 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-repealed exposure	
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 / IATA	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) Proper Shipping Name (ADN)	: Not applicable
Proper Shipping Name (RID)	: Not applicable : Not applicable
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: Not applicable
IMDG Transport hazard class(es) (IMDG)	: Not applicable
IATA	· Not applicable
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. 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

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 AwSV; ID No. 1338)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	:	Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

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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		Young people below the age of 19 years are not allowed to use the product
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