

### CHAITANYA CHS, 2<sup>nd</sup> FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAł 400062, MH, INDIA. CONTACT: +9122 28725393 /94/ 95 | EMAILID: CARE@SUVCHEM.COM

# MATERIAL SAFETY DATA SHEET (MSDS)

# **1,4-BUTANEDIOL (FOR SYNTHESIS)**

### 1.1. Product identifier Trade name : 1,4-BUTANEDIOL (FOR SYNTHESIS) **Product code** : SS0113202500 Identification of the product : 1.4 BUTANEDIOL CAS No :110-63-4 1.2. Relevant identified uses of the substance or mixture and uses advised against Use : Industrial. For professional use only. 1.3. Details of the supplier of the safety data sheet SUVCHEM **Company identification** Chaitanya Tower, 2nd Floor, Office # 206, Siddharth Nagar, S.V. Road, Goregaon (West), Mumbai - 400062, Maharashtra, India. Contact: +91 22 28725393 / 94 / 95 Email ID: info@suvchem.com/care@suvchem.com 1.4. Emergency telephone number Phone no. : + 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [ Office hours ]

1. Identification of the substance/mixture and of the company/undertaking

### 2. Hazards identification -DSD

### 2.1. Classification of the substance or mixture

Classification	: Xn; R22 R67
Hazard Class and Categor	<u>y Code(s), Regulation (EC) No 1272/2008 (CLP)</u>
Health hazards	: Specific Target Organ Toxicity - Single exposure - Narcotic effects - Category 3 - Warning (CLP : STOT SE 3) H336 Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302
2.2. Label elements	

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### CHAITANYA CH5, 2<sup>nd</sup> FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAI 400062, MH, INDIA. CONTACT: +9122 28725393 /94/ 95 | EMAILID: CARE@SUVCHEM.COM

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Symbol(s)	×
Symbol(s)	: Xn : Harmful
R Phrase(s)	: R22 : Harmful if swallowed. R67 : Vapours may cause drowsiness and dizziness.
S Phrase(s)	: S23 : Do not breathe the gas, fumes, vapours, spray. S36 : Wear suitable protective clothing.
Labelling Regulation EC 1272/20	<u>108 (CLP)</u>
Hazard pictograms	()
Signal words	: Warning
Hazard statements	: H302 : Harmful if swallowed. H336 : May cause drowsiness or dizziness.
Precautionary statements	-
<ul> <li>Prevention</li> </ul>	<ul> <li>P271: Use only outdoors or in a well-ventilated area.</li> <li>P261: Avoid breathing dust, fume, gas, mist, vapours, spray.</li> <li>P264: Wash thoroughly after handling.</li> <li>P270: Do not eat, drink or smoke when using this product.</li> </ul>
• Response	: P301+P312: IF SWALLOWED : Call a POISON CENTER or doctor if you feel unwell. P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.
• Storage	: P403+P233: Store in well-ventilated place. Keep container tightly closed. P405: Store locked up.
<ul> <li>Disposal considerations</li> </ul>	: P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
2.3. Other hazards	
Other hazards	: The substance does not fulfil the criteria to be identified as PBT substance or vPv substance according to Annex XIII of Regulation REACH.

	3. Composition/information on ingredients		
CAS No :110-63-4 Substance.	Substance / Preparation		

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### 3. Composition/information on ingredients (continued)

Contains no other components or impurities which will influence the classification of the product.

### 4. First aid measures

### 4.1. Description of first aid measures

Inhalation	: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.	
Skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.	
Eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.	
Ingestion	: Obtain emergency medical attention. Call a POISON CENTER or doctor if you feel unwell. Do NOT induce vomiting. Rinse mouth.	
4.2. Most important symptoms and effects, both acute and delayed		
Symptoms relating to use	: Swallowing a small quantity of this material will result in serious health hazard. May cause drowsiness or dizziness.	
4.3. Indication of any immediate medical attention and special treatment needed		
General information	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).	

### 5. Fire-fighting measures

5.1. Extinguishing media		
Suitable extinguishing media Unsuitable extinguishing media Surrounding fires	: Foam. Dry powder. Carbon dioxide. Water spray. Sand. : Do not use a heavy water stream. : Use water spray or fog for cooling exposed containers.	
5.2. Special hazards arising from the substance or mixture		
Hazardous combustion products	: Under fire conditions, hazardous fumes will be present.	
5.3. Advice for fire-fighters		
Protection against fire	: Do not enter fire area without proper protective equipment, including respiratory protection.	
Special procedures	: Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.	



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### 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

For emergency responders	: Equip cleanup crew with proper protection. Ventilate area. Avoid breathing dust, fume, gas, mist, vapours, spray.	
For non-emergency personnel	: Evacuate unnecessary personnel.	
6.2. Environmental precautions		
Environmental precautions	: Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.	
6.3. Methods and material for containment and cleaning up		
Clean up methods	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.	
6.4. Reference to other sections		

See section 8. Exposure controls/personal protection

# 7. Handling and storage

### 7.1. Precautions for safe handling

Handling	: Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product.
Technical protective measures	: Provide good ventilation in process area to prevent formation of vapour.
Special precautions	: Avoid breathing dust, fume, gas, mist, vapours, spray.
7.2. Conditions for safe storage, in	cluding any incompatibilities
Storage	: Keep only in the original container in a cool, well ventilated place. Keep container tightly closed.
Storage Storage - away from	: Keep only in the original container in a cool, well ventilated place. Keep container
-	: Keep only in the original container in a cool, well ventilated place. Keep container tightly closed.



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### 8. Exposure controls/personal protection

# 8.1. Exposure controlsPersonal protection: Avoid all unnecessary exposure.• Respiratory protection: Where exposure through inhalation may occur from use, respiratory protection<br/>equipment is recommended.• Hand protection: Wear protective gloves.• Eye protection: Chemical goggles or safety glasses.• Others: When using, do not eat, drink or smoke.8.2. Control parameters: No data available.

### 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state at 20 °C Colour Odour Odour threshold pH value Melting point [°C] Decomposition point [°C] Critical temperature [°C] Auto-ignition temperature [°C] Flammability (solid, gas) Flash point [°C] Boiling point [°C] Initial boiling point [°C] Final boiling point [°C]	: Liquid. : Clear Colorless : Odorless : No data available. : No data available. : 16 °C : N/A : N/A
Evaporation rate Vapour pressure [20°C]	: N/A : N/A
Vapour pressure mm/Hg Vapour density Density [g/cm3] Relative density, gas (air=1) Relative density, liquid (water=1) Solubility in water [% weight]	: N/A : 3,11 : 1,017 : N/A : N/A : Soluble in water



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### 9. Physical and chemical properties (continued)

Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: N/A
Viscosity at 40°C [mm2/s]	: N/A
9.2. Other information	
Explosive properties	: N/A
Explosion limits - upper [%]	: N/A
Explosion limits - lower [%]	: N/A
Oxidising properties	: No data available.

### 10. Stability and reactivity

<u>10.1. Reactivity</u>		
Reactivity	: Not established.	
10.2. Chemical stability		
Chemical stability	: Stable under recommended storage conditions.	
10.3. Possibility of hazardous reactions		
Hazardous reactions	: Not established.	
10.4. Conditions to avoid		
Conditions to avoid	: Direct sunlight. Extremely high or low temperatures.	
10.5. Incompatible materials		
Materials to avoid	: Strong acids. Strong bases.	
10.6. Hazardous decomposition products		
Hazardous decomposition products	: Fumes. Carbon monoxide. Carbon dioxide.	

### 11. Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity

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### 11. Toxicological information (continued)

Inhalation	: Based on available data, the classification criteria are not met.
• Dermal	: Based on available data, the classification criteria are not met.
<ul> <li>Ingestion</li> </ul>	: Harmful if swallowed.
Corrosion	: Based on available data, the classification criteria are not met.
Irritation	: Based on available data, the classification criteria are not met.
Sensitization	: Based on available data, the classification criteria are not met.
Mutagenicity	: Based on available data, the classification criteria are not met.
Carcinogenicity	: Based on available data, the classification criteria are not met.
Toxic for reproduction	: Based on available data, the classification criteria are not met.
STOT-single exposure	: May cause drowsiness or dizziness.
STOT-repeated exposure	: Based on available data, the classification criteria are not met.
Aspiration hazard	: Based on available data, the classification criteria are not met.

### 12. Ecological information

<u>12.1. Toxicity</u>		
Toxicity information	: Not established.	
<u>12.2. Persistence - degradability</u>		
Persistence - degradability	: Biodegradable.	
12.3. Bioaccumulative potential		
Bioaccumulative potential	: Not established.	
<u>12.4. Mobility in soil</u>		
Mobility in soil	: Not established.	
12.5. Results of PBT and vPvB assessment		
Results of PBT and vPvB assessment	: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.	
12.6. Other adverse effects		
Environmental precautions	: Avoid release to the environment.	



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### 13. Disposal considerations

### 13.1. Waste treatment methods

General

: Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container to hazardous or special waste collection

point, in accordance with local, regional, national and/or international regulation.

### 14. Transport information

<u>14.1. Land transport (ADR-RID)</u>	

General information : Not regulated.

### 14.2. Sea transport (IMDG) [English only]

General information : Not regulated.

### 14.3. Air transport (ICAO-IATA) [English only]

General information : Not regulated.

### 15. Regulatory information

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

Safety, health and environmental regulations/legislation specific for th substance or mixture	: Ensure all national/local regulations are observed. e
REACH Restrictions - Annex XVII REACH Authorisation - Annex XIV	: The components of this product are not subject to restrictions. : The components of this product are not subject to authorization.
15.2. Chemical Safety Assessment	
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has not been carried out.

16. Other information	
Revision	: Revision - See : *
Abbreviations and acronyms	: PBT: persistent, bioaccumulative and toxic. vPvB: very persistent and very bioaccumulative
Sources of key data used	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

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AN ISO 9001: 2015 CERTIFIED



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In accordance with REACH Regulation (CE) Nº 1907/2006 and with CLP Regulation (CE) Nº 1272/2008

# DISCLAIMER:

- SUVCHEM Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- SUVCHEM shall not be responsible for any damage resulting from handling or from contact with the above product.
- SUVCHEM provides the information contained herein in good faith but makes no representation as to its
  comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of
  the material by a properly trained person using this product.

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