

Butylene Glycol

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 /
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1 PRODUCT & COMPANY IDENTIFICATION

Product Name:	Butylene Glycol	Distributor:	MakingCosmetics Inc.
Synonyms:	1,3-Butylene glycol	Address:	10800 231 st Way NE
INCI Name:	Butylene Glycol		Redmond, WA 98053 (USA)
CAS Number:	107-88-0	Phone / Fax:	425-292-9502 / 425-292-9601
Formula:	C4 H10 O2	Web:	www.makingcosmetics.com
Product Form:	Liquid		
Product Use:	Cosmetic use		
			Emergency Telephone Number: 1-800-424-9300 (Chemtrec)

2 HAZARDS IDENTIFICATION

GHS Classification:	Not classified.												
GHS Labeling:	None required.												
GHS Hazard Pictograms:	None.												
GHS Hazard Statements:	None.												
GHS Precautionary Statements:	None												
Potential Health Hazards:	Eyes: May be an irritant. Inhalation: May be an irritant. Skin: May be an irritant. Ingestion: May cause nausea, vomiting, and diarrhea.												
NFPA Ratings (704):	<table><tr><td>Health</td><td>1</td><td>Slight</td></tr><tr><td>Flammability</td><td>1</td><td>Slight</td></tr><tr><td>Reactivity</td><td>0</td><td>Minimal</td></tr><tr><td>Specific Hazard</td><td>N/A</td><td></td></tr></table>	Health	1	Slight	Flammability	1	Slight	Reactivity	0	Minimal	Specific Hazard	N/A	
Health	1	Slight											
Flammability	1	Slight											
Reactivity	0	Minimal											
Specific Hazard	N/A												

3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS No.</u>	<u>Weight %</u>	<u>Molecular Weight</u>
Butylene Glycol	107-88-0	>99.5%	Not Available

4 FIRST AID MEASURES

Eyes:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.
Inhalation:	Keep at rest. Aerate with fresh air. When symptoms persist or in all cases of doubt seek medical advice.
Skin:	Remove contaminated, soaked clothing immediately and dispose of safely. Wash off immediately with plenty of water. When symptoms persist or in all cases of doubt seek medical advice.
Ingestion:	Call a physician immediately. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. If ingested, irrigate the stomach using activated charcoal.
Acute/Delayed Symptoms:	Main symptoms include coughing. Special hazards include lung irritation. Treat symptomatically. First aider needs to protect themselves.

5 FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:	May be combustible at high temperature. Use appropriate media (foam, dry chemical, carbon dioxide (CO ₂), water spray) for adjacent fire. Do not use a solid water stream as it may scatter and spread fire.
Special protective equipment & precautions for firefighters:	Wear self-contained breathing apparatus and full protective clothing, including eye protection and boots. Cool containers/tanks with water spray. Dike and collect water used to fight fire.

Flash Points:	Keep people away from and up wind of fire. 239°F (115 °C)
Specific hazards arising from the chemical:	Under conditions giving incomplete combustion, hazardous gases produced may consist of carbon monoxide (CO), carbon dioxide (CO ₂). Combustion gases of organic materials must in principle be graded as inhalation poisons. Vapors are heavier than air and may spread along floors. See also Stability and reactivity section.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment & emergency procedures:	Avoid contact with skin and eyes. Avoid breathing vapors or mists. Keep people away from and upwind of spill/leak. Ensure adequate ventilation, especially in confined areas. Keep away from heat and sources of ignition. Do not try to clean up the leak without proper protective equipment. See section 8 for recommendations on the use of personal protective equipment.
Environmental precautions:	Avoid liquid release into sewers/public water/environment. Notify environmental authorities in case of leak.
Methods and material for containment and cleaning up:	Stop the flow of material, if possible, without risk. Dike spilled material, where this is possible. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. If liquid has been spilt in large quantities clean up promptly by scoop or vacuum. Dispose of in accordance with local regulations. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Dispose of absorbed material in accordance with the regulations.

7 HANDLING & STORAGE

Precautions for safe handling:	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Provide sufficient air exchange and/or exhaust in work rooms. Use good personal hygiene practice. Keep away from sources of ignition - No smoking. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). In case of fire, emergency cooling with water spray should be available. Ground and bond containers when transferring material. See section 8 for recommendations on the use of personal protective equipment.
Conditions for safe storage, incl. any incompatibilities:	Keep containers tightly closed in a cool, well-ventilated place. Handle and open container with care. Keep at temperatures between 60-90°F (15-32°C). Store in original tightly closed container. Store away from incompatible materials (see section 10 for incompatibilities).

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Component</u>	<u>Exposure Limits</u>	<u>Basis</u>	<u>Entity</u>
Butylene Glycol	None established		
TWA: Time Weighted Average over 8 hours of work. TLV: Threshold Limit Value over 8 hours of work. REL: Recommended Exposure Limit PEL: Permissible Exposure Limit			
STEL: Short Term Exposure Limit during x minutes. IDLH: Immediately Dangerous to Life or Health WEEL: Workplace Environmental Exposure Levels CEIL: Ceiling			
Personal Protection:			
Eyes:	Tightly fitting safety goggles. In addition to goggles, wear a face shield if there is a reasonable chance for splash to the face.		
Inhalation:	Respirator with filter for organic vapor. Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (vapor or mist). Equipment should conform to NIOSH.		
Body:	Wear appropriate chemical resistant gloves (nitrile rubber/polyvinylchloride, break through time >480 min) and full impervious protective clothing.		
Other:	Use good personal hygiene practices. General or dilution ventilation is frequently insufficient as the sole means of controlling employee exposure. Local ventilation is usually preferred. Explosion-proof equipment (for example fans, switches, and grounded ducts) should be used in mechanical ventilation systems. If possible, use in closed systems. If leakage cannot be prevented, the substance needs to be suck off at the emersion point, if possible, without danger. Observe the exposure limits, clean exhaust air if needed. If recycling is not practicable, dispose in compliance with local regulations. Inform the responsible authorities in case of leakage into the atmosphere, or of entry into waterways, soil or drains. Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling. Routinely wash work clothing and protective equipment to remove		

contaminants.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid	Vapor Pressure:	No data available
Odor:	Weak	Relative Vapor Density at 20 °C:	3,2 (Air = 1)
Odor Threshold:	No data available	Evaporation Rate:	No data available
Color:	Colorless	Flammability:	Not applicable
Molecular Weight:	90,12	Lower/Upper Explosive Limit:	1,9 Vol% / 12,6 Vol%
pH:	6 - 9	Flash Point:	239 °F (115 °C)
Boiling Point:	408 °F (209 °C)	Specific Gravity:	No data available
Melting/Freezing Point:	-71°F (-57°C)	Water Solubility:	miscible, in water
Relative Density:	No data available	Auto-Ignition Temperature:	770°F (410°C)
Partition Coefficient: n-octanol/water:	No data available	Decomposition Temperature:	No data available
Dynamic Viscosity:	No data available	Explosive Properties:	Not explosive
Oxidizing Properties:	Not oxidizing	Refractive Index at 20 °C:	1,440

10 STABILITY AND REACTIVITY

Reactivity:	The reactivity of the product corresponds to the typical reactivity shown by the substance group as described in any text book on organic chemistry.
Chemical Stability:	Stable under recommended storage conditions.
Hazardous Polymerization:	Hazardous polymerization does not occur.
Conditions to Avoid:	Avoid contact with heat, sparks, open flame and static discharge. Avoid any source of ignition.
Incompatible Materials:	Strong oxidizing agents.
Hazardous Decomposition Products:	No decomposition if stored and applied as directed.
Possible Hazardous Reactions:	No data available.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity:	No data available.
Skin:	No data available.
Eyes:	Based on available data, the classification criteria are not met for eye irritation/corrosion.
Inhalation:	(Rat, Inhalation) LC0: 292 mg/m ³ ; Method: OECD 403.
Ingestion:	(Rat, Oral) LD50: 22800 mg/kg.
Routes of Exposure:	Ingestion, Inhalation, Eye contact, Skin contact.
Carcinogenicity:	(Rat, Oral) NOAEL 5000mg/kg/d. Did not show carcinogenic effects in animal experiments.
Teratogenicity:	(Rat, Oral) NOAEL 12000mg/kg/d. Did not show teratogenic effects in animal experiments.
Germ Cell Mutagenicity:	(Rat) In Vivo: Negative. Did not show mutagenic effects in animal experiments.
Reproductive Toxicity:	(Rat, Oral) LOAEL 12000mg/kg/d.
Developmental Toxicity:	(Rat, Oral) NOAEL 5000mg/kg/d.
	(Rat, Oral) NOAEL 12000mg/kg/d.
	(Rat, Oral) LOAEL 5000mg/kg/d; fetal toxicity.
Skin Sensitization:	(Rat, Oral) NOAEL 2500mg/kg/d; fetal toxicity.
Irritation/Corrosion:	(Human, Skin) Evaluation: Not sensitizing; Method: Patch-test. Based on available data, the classification criteria are not met for skin sensitization.
Sub-chronic Toxicity:	(Rabbit, Skin) Result: No skin irritation. (Rabbit, Eyes) Result: Mild eye irritation. Based on available data, the classification criteria are not met for skin irritation/corrosion.
Chronic Toxicity:	(Dogs, Oral) NOAEL: 6000mg/kg/d; 90-days.
	(Rat, Oral) NOAEL: 5000mg/kg/d; two-years.
	(Dog, Oral) NOAEL: >= 750mg/kg/d; two years.

12 ECOLOGICAL INFORMATION

Ecotoxicity:	No data available.
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Aquatic Vertebrate:	(Daphnia magna) EC50: > 1000 mg/l; 48 hours; OECD 202 read across. (Oryzias latipes) LC50: > 100 mg/l; 96 hours; OECD 203 read across.
Aquatic Invertebrate:	(Daphnia magna) EC50: > 85 mg/l; 21 days; OECD 202 read across.
Algae:	(Desmodesmus subspicatus) EC50: > 1070 mg/l (Growth rate); 72 hours; OECD 201. (Scenedesmus subspicatus) NOEC: 1070 mg/l (3 days) OECD 201.
Activated sludge:	EC20: > 100 mg/l; 3 hours; OECD 209.
Persistence and Degradability:	No data available.
Bioaccumulative Potential:	No potential for bioaccumulation.
Mobility in Soil:	Surface tension: 72,6 mN/m (1 g/l @ 20°C (68°F)) OECD 115; Adsorption/Desorption log Koc: 0; Metod: calculated.
PBT and vPvB Assessment:	This substance is not considered to be persistent, bioaccumulating nor toxic (PBT), nor very persistent nor very bioaccumulating (vPvB).
Other Adverse Effects:	No data available.

13 DISPOSAL CONSIDERATIONS

Waste Residues:	For proper disposal of used material, users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies, if necessary, before disposing of waste product.
Product Containers:	Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. For proper disposal of used material, users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies, if necessary, before disposing of waste product container.

The information in section 13 is for the product as shipped. Use and/or alterations to the product may change the characteristics of the material and alter the waste classification and proper disposal methods

14 TRANSPORT INFORMATION

DOT (Dept. of Transportation, USA):	Not restricted.
TDG (Transportation of Dangerous Goods, Canada):	No data available.
IMDG (International Maritime Dangerous Goods):	Not restricted.
IATA (International Air Transport Association):	Not restricted.
ICAO (International Civil Aviation Organization):	Not restricted.

15 REGULATORY INFORMATION

TSCA Registered:	Listed.
Canada (DSL):	Listed.
EU (EINECS):	Listed.
China (IECSC):	Listed.
Australia (AICS):	Listed.
Japan (MITI/ ISHL):	Listed.
Japan (ISHL):	Listed.
Korea (KECI):	Listed.

16 OTHER INFORMATION

Revision Date:	26-Jan-2026
Compliance:	This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200
Disclaimer:	This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.