

## Pentylene Glycol BIO

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 /  
March 26, 2012 / Rules and Regulation

Revision Date: 06-May-2024  
Supersedes: 05-Mar-2020

### 1 PRODUCT & COMPANY IDENTIFICATION

<b>Product Name:</b>	Pentylene Glycol BIO	<b>Distributor:</b>	MakingCosmetics Inc.
<b>Synonyms:</b>	1,2-Pentanediol, Pentane-1,2-diol	<b>Address:</b>	10800 231 <sup>st</sup> Way NE Redmond, WA 98053 (USA)
<b>INCI Name:</b>	Pentylene Glycol	<b>Phone / Fax:</b>	425-292-9502 / 425-292-9601
<b>CAS Number:</b>	5343-92-0	<b>Web:</b>	www.makingcosmetics.com
<b>Formula:</b>	C5-H12-O2		
<b>Product Form:</b>	Liquid		
<b>Product Use:</b>	Cosmetic use	<b>Emergency Telephone Number:</b>	1-800-424-9300 (Chemtrec)

### 2 HAZARDS IDENTIFICATION

<b>GHS Classification:</b>	Serious eye damage: Category 1.
<b>GHS Labeling:</b>	Not a dangerous substance according to GHS.
<b>GHS Signal Word:</b>	<b>DANGER</b>
<b>GHS Hazard Pictograms:</b>	

<b>GHS Hazard Statements:</b>	H318: Causes serious eye damage.
<b>GHS Precautionary Statements:</b>	(Prevention) P280 Wear eye protection/ face protection. (Response) P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

<b>Potential Health Hazards:</b>	Eyes: Causes serious eye damage. Inhalation: May be an irritant. Skin: May be an irritant.
	Ingestion: May cause nausea, vomiting, or diarrhea.

<b>NFPA Ratings (704):</b>	<b>Health</b> N/A N/A
	<b>Flammability</b> N/A N/A
	<b>Reactivity</b> N/A N/A
	Specific Hazard N/A N/A

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS No.</u>	<u>Weight %</u>	<u>Molecular Weight</u>
Pentylene Glycol	5343-92-0	100%	Not Available

### 4 FIRST AID MEASURES

<b>Eyes:</b>	Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek immediate medical attention. Continue rinsing eyes during transport to hospital. Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
<b>Inhalation:</b>	If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
<b>Skin:</b>	Immediately remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Call a physician immediately.
<b>Ingestion:</b>	Clean mouth with water and drink afterwards plenty of water. Do not give milk or alcoholic beverages. Do Not Induce Vomiting. Never give anything by mouth to an unconscious person. Seek immediate medical attention.
<b>General Notes:</b>	Do not leave the victim unattended. Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.

## 5 FIRE-FIGHTING MEASURES

**Suitable (and unsuitable) extinguishing media:**

May be combustible at high temperature. Use appropriate media (water spray, alcohol-resistant foam, dry chemical, or carbon dioxide) for adjacent fire. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. No unsuitable extinguish media listed.

**Special protective equipment & precautions for firefighters:  
Flash Points:**

Wear self-contained breathing apparatus and full protective clothing, including eye protection and boots. Do not allow run-off from firefighting to enter drains or water courses.  
> 212°F/100°C.

**Specific hazards arising from the chemical:**

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. See also Stability and reactivity section.

## 6 ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment & emergency procedures:**

Ensure adequate ventilation. 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:**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Soak up with inert absorbent material and dispose of as hazardous waste. Dispose of absorbed material in accordance with the regulations.

## 7 HANDLING & STORAGE

**Precautions for safe handling:**

Use only with adequate ventilation. Do not breathe vapors/dust. For industrial use only. Keep all heated processes at the lowest necessary temperature to minimize emissions of volatile chemicals into the air. Take care to avoid waste and spillage when weighing, loading, and mixing the product. Do not wear contaminated clothing or shoes. Use good personal hygiene practice. 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 dry, cool, and well-ventilated place. 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>
Pentylene Glycol BIO	Not available	Not available	Not available

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:** Wear chemical resistant goggles and/or face shield.

**Inhalation:** In the absence of adequate ventilation, a respirator, appropriate for the specific workplace conditions, is recommended.

**Body:** Wear suitable gloves and full protective clothing.

**Other:** Use adequate ventilation (such as hoods, point source or whole room ventilation systems for liquids and dust collection systems for dusts) are recommended as the primary method to minimize workplace exposure. Established TLV, TWA, or PEL values should be used when possible. Use good personal hygiene practices. Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Clear liquid	<b>Vapor Pressure at 20°C:</b>	0.015 hPa / 0.011 mmHg
<b>Odor:</b>	Characteristic	<b>Vapor Density:</b>	No data available
<b>Odor Threshold:</b>	No data available	<b>Evaporation Rate:</b>	No data available

<b>Color:</b>	Colorless	<b>Flammability:</b>	No data available
<b>Molecular Weight:</b>	104 g/mol	<b>Upper/lower Explosive Limit:</b>	No data available
<b>pH:</b>	7.5	<b>Flash Point:</b>	> 212°F/100°C
<b>Boiling Point/Range:</b>	209.4°C (1,013 hPa)	<b>Specific Gravity:</b>	No data available
<b>Melting Point:</b>	No data available	<b>Water Solubility at 20°C:</b>	1,000 g/l completely miscible
<b>Relative Density at 20°C:</b>	0.9660 - 0.9760 relation to density of water at 4°C	<b>Auto-Ignition Temperature:</b>	No data available
<b>Partition Coefficient: n-octanol/water at 25°C:</b>	log Pow: 0.06	<b>Decomposition Temperature:</b>	No data available
<b>Dynamic Viscosity:</b>	77.1 mPa.s (20°C) 22.9 mPa.s (40°C)	<b>Explosive Properties:</b>	No data available
<b>Kinematic Viscosity:</b>	24 mm <sup>2</sup> /s (40°C) 79.4 mm <sup>2</sup> /s (20°C)	<b>Oxidizing Properties:</b>	No data available

## 10 STABILITY AND REACTIVITY

<b>Reactivity:</b>	No data available.
<b>Chemical Stability:</b>	No decomposition if stored and applied as directed.
<b>Hazardous Polymerization:</b>	No data available.
<b>Conditions to Avoid:</b>	No data available.
<b>Incompatible Materials:</b>	No data available.
<b>Hazardous Decomposition Products:</b>	No data available.
<b>Possible Hazardous Reactions:</b>	Stable under recommended storage conditions.

## 11 TOXICOLOGICAL INFORMATION

<b>Acute Toxicity:</b>	No data available.
<b>Skin:</b>	(Rat) LD50 Dermal: > 2,000 mg/kg; Method: OECD Test Guideline 402; GLP: no.
<b>Eyes:</b>	Causes serious eye irritation/damage.
<b>Inhalation:</b>	(Rat) LC50: 7.015 mg/l; Exposure time: 4 hours; Test atmosphere: dust/mist; Method: OECD Test Guideline 403; GLP: no.
<b>Ingestion:</b>	(Rat) LD50 Oral: > 5,000 mg/kg; Method: OECD Test Guideline 401; GLP: no.
<b>Serious Eye Damage/Irritation:</b>	(Rabbit) Result: Eye irritation; Concentration: 100%; Method: OECD Test Guideline 405; GLP: yes.
<b>Carcinogenicity:</b>	Not listed as a carcinogen by NTP, IARC, or OSHA.
<b>Teratogenicity:</b>	No data available.
<b>Germ Cell Mutagenicity:</b>	Genotoxicity in vitro (Ames test): Metabolic activation: with and without metabolic activation; Method: OECD 471; Result: negative; GLP: yes. (Human lymphocytes) In vitro Mammalian Chromosome Aberration Test: Metabolic activation: with and without metabolic activation; Method: OECD 473; Result: negative; GLP: yes. (Mouse lymphoma L5178Y cells) Mammalian Cell Gene Mutation Test: Metabolic activation: with and without metabolic activation; Method: OECD 476; Result: negative; GLP: yes.
<b>Specific Target Organ Toxicity:</b>	No data available.
<b>Reproductive Toxicity:</b>	(Rat) Effects on fertility: NOAEL: 1,000 mg/kg and F1: 1,000 mg/kg. (Rat) Effects on fetal development: 300 mg/kg.
<b>Respiratory/Skin Sensitization:</b>	(Humans) Result: No sensitizing effect. Concentration: 50%
<b>Skin Corrosion/Irritation:</b>	(Humans) Result: No skin irritation; Concentration: 10%. (Rabbit) Exposure time: 4 hours; Method: OECD Test Guideline 404; Result: No skin irritation; Concentration: 100%; GLP: yes.

## 12 ECOLOGICAL INFORMATION

<b>Ecotoxicity:</b>	No data available.
<b>Aquatic Vertebrate:</b>	(Zebra fish) LC50: > 1,096 mg/l; Exposure time: 96 hours; Test Type: static test; Analytical monitoring: yes; Method: OECD Test Guideline 203; GLP: yes.
<b>Aquatic Invertebrate:</b>	(Daphnia magna) EC50: > 500 mg/l; Exposure time: 48 hours; Test Type: static test; Analytical monitoring: no; Method: 79/831/ECC; GLP: no. (Desmodesmus subspicatus) EC50: 9,334.69 mg/l; End point: Growth rate; Exposure time: 72 hours; Test Type: static test; Analytical monitoring: no; Method: DIN 38412 (part 9); GLP: no.
<b>Terrestrial:</b>	(Desmodesmus subspicatus) EC10: 5,477.33 mg/l; End point: Growth rate; Exposure time: 72

	hours; Test Type: static test; Analytical monitoring: no; Method: DIN 38412 (part 9); GLP: no. (Pseudomonas putida) EC50: 10,000 mg/l; Exposure time: 17 hours; Test Type: static test; Analytical monitoring: no; Method: DIN 38412 (part 8); GLP: no.
<b>Persistence and Degradability:</b>	Test Type: Modified OECD screening test; Result: Readily biodegradable; Biodegradation: 73%; Exposure time: 28 days; Method: OECD Test Guideline 301E; GLP: no.
<b>Bioaccumulative Potential:</b>	No data available.
<b>Mobility in Soil:</b>	No data available.
<b>PBT and vPvB Assessment:</b>	This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).
<b>Other Adverse Effects:</b>	No data available.

## 13 DISPOSAL CONSIDERATIONS

<b>Waste Residues:</b>	Do not dispose of waste into sewer. Discharge into the environment must be avoided. Send to a licensed waste management company. 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.
<b>Product Containers:</b>	Empty remaining contents. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Where possible recycling is preferred to disposal or incineration. 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

<b>DOT (Dept. of Transportation, USA):</b>	No data available.
<b>TDG (Transportation of Dangerous Goods, Canada):</b>	No data available.
<b>IMDG (International Maritime Dangerous Goods):</b>	Not classified as dangerous in the meaning of transport regulations.
<b>IATA (International Air Transport Association):</b>	Not classified as dangerous in the meaning of transport regulations.
<b>ICAO (International Civil Aviation Organization):</b>	No data available.
<b>49 CFR Road Transportation:</b>	Not classified as dangerous in the meaning of transport regulations for 0-25kg, 25-400kg, and >400kg.

## 15 REGULATORY INFORMATION

<b>TSCA Inventory Status:</b>	No data available.
<b>TSCA 12(b):</b>	Not listed.
<b>TSCA 5 (a):</b>	Not listed.
<b>SARA 304:</b>	This material does not contain any components with a section 304 EHS RQ.
<b>SARA 311/312 Hazards:</b>	Acute Health Hazard.
<b>SARA 302:</b>	This material does not contain any components with a SARA 302 RQ.
<b>SARA 313:</b>	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
<b>CERCLA Reportable Quantity:</b>	This material does not contain any components with a CERCLA RQ.
<b>NJ Right to Know:</b>	Not listed.
<b>Canada (DSL):</b>	No data available.
<b>EU (EINECS):</b>	No data available.
<b>China (IECSC):</b>	No data available.
<b>Australia (AICS):</b>	No data available.
<b>Japan (ENCS):</b>	No data available.
<b>Philippines (PICCS):</b>	No data available.
<b>Korea (ECL):</b>	No data available.
<b>New Zealand:</b>	No data available.
<b>California Prop. 65:</b>	Not listed.

## 16 OTHER INFORMATION

**Revision Date:** 06-May-2024

**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.