

Safety Data Sheet (SDS)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name: DermaPepTM A310

INCI name: 1,3-Butylene Glycol, Glycerin, Water, Palmitoyl oligopeptide.

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

Relevant identified use: Active ingredient for cosmetic preparations

1.3. Details of the supplier of the safety data sheet

Company Identification:

BeadTech Inc..

10-dong 4th, 49 Wonsi-ro, Danwon-gu, Ansan-si, Gyeonggi-do, Korea

Email: dermapep@mwc.co.kr

1.4. Emergency telephone number

TEL) +82-31-8084-8414

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

GHS Classification: Not Classified

2.2. Label elements

GHS Labelling Not applicable

GHS Signal Word Not applicable

Hazard Statement Not applicable

Precautionary Statements: Not applicable

2.3. Other hazards: Not applicable

SECTION 3: Composition/Information on Ingredients

Component	CAS No.	EC No.	Concentration(%)
Glycerin	56-81-5	200-289-5	50.00
Water	7732-18-5	-	29.95
1,3-Butylene glycol	107-88-0	203-529-7	20.00
Palmitoyl oligopeptide	147732-56-7	-	0.05

SECTION 4: First Aid Measures

4.1. Description of first aid measures

General advice: Remove contaminated, soaked clothing immediately and dispose of safely. First aider needs to protect himself.

Inhalation: Keep at rest. Aerate with fresh air. When symptoms persist or in all cases of doubt seek medical advice.

Eyes: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.

Skin: 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.

4.2. Most important symptoms and effects, both acute and delayed

Main symptoms: cough.

Special hazard: Lung irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. If ingested, irrigate the stomach using activated charcoal.

SECTION 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: foam, dry chemical, carbon dioxide (CO2), water spray

Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Under conditions giving incomplete combustion, hazardous gases produced may consist of: carbon monoxide (CO), carbon dioxide (CO2). Combustion gases of organic materials must in principle be graded as inhalation poisons. Vapors are heavier than air and may spread along floors.

5.3. Advice for firefighters

Fire fighter protection should include a self-contained breathing apparatus (NIOSH-approved or EN 133) and full fire-fighting turn out gear.

Precautions for fire-fighting: Cool containers / tanks with water spray. Dike and collect water used to fight fire.

Water run-off can cause environmental damage. Keep people away from and upwind of fire.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and 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.

For emergency responders: Personal protection see section 8.

6.2. Environmental precautions

Prevent further leakage or spillage. Do not discharge product into the aquatic environment without pretreatment (biological treatment plant).

6.3. Methods and material for containment and cleaning up

Methods for containment: Stop the flow of material, if possible without risk. Dike spilled material, where this is possible.

Methods for cleaning up: 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 vapours).

6.4. Reference to other sections

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Advice on 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.

Advice on protection against fire and explosion: Keep away from sources of ignition - No smoking. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). In case of fire, emergency cooling with water spray should be available. Ground and bond containers when transferring material.

Advice on the protection of the environment: See Section 8: Environmental exposure controls.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions: Keep containers tightly closed in a cool, well-ventilated place. Keep in cool, dark and clean place. For long term storage it is recommended to store at 4 $^{\circ}$ C which extends shelf life to at least two years.

Incompatible products: Strong oxidizing agents

7.3. Specific end use(s): Formulations for cosmetic products

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Exposure Limits

Permissible Exposure Limits (PELs): N/A Threshold Limit Values (TLVs): N/A

8.2. Exposure controls

Occupational exposure controls

Engineering measures

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.

Personal protective equipment

General industrial hygiene practice: Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Ensure that eyewash stations and safety showers are close to the workstation location.

Hygiene measures: When using, do not eat, drink or smoke. Take off all contaminated clothing immediately. Wash hands before breaks and immediately after handling the product.

Hand protection: Wear protective gloves. Recommendations are listed below. Other protective material may be used, depending on the situation, if adequate degradation and permeation data is available. If other chemicals are used in conjunction with this chemical, material selection should be based on protection for all chemicals present.

Eye protection: Tightly fitting safety goggles. In addition to goggles, wear a face shield if there is a reasonable

chance for splash to the face.

Skin and body protection: Impervious clothing. Wear face-shield and protective suit for abnormal processing problems.

Environmental exposure controls

If possible use in closed systems, if leakage cannot be prevented, the substance needs to be sucked off at the emersion point, if possible without danger. Observe the exposure limits, clean exhaust air if needed. If recycling is not practicable, dispose of in compliance with local regulations. Inform the responsible authorities in case of leakage into the atmosphere, or of entry into waterways, soil or drains.

SECTION 9: Physical and Chemical Properties

(a) Appearance: Transparent solution

(b) Colour: Colorless to light yellowish

(c) Odour: Characteristic(d) Odour threshold: N/D

(e) pH: 3.0 - 5.0

(f) Melting point/freezing point: N/D

(g) Initial boiling point and boiling range: N/D

(h) Flash point: N/D

(i) Upper/lower flammability or explosive limits: N/D

(j) Vapour pressure: N/D

(k) Vapour density: N/D

(l) Relative density (d20/20): 1.11 - 1.13

(m) Water Solubility: miscible

(n) Partition coefficient: n-octanol/water: N/D

(o) Auto-ignition temperature: N/D(p) Decomposition temperature: N/D

(q) Viscosity: N/D

SECTION 10: Stability and Reactivity

10.1. Chemical stability: Stable under recommended storage conditions.

10.2. Conditions to avoid: Avoid contact with heat, sparks, open flame and static discharge.

Avoid any source of ignition. Avoid gross bacterial contamination

10.3. Incompatible materials: Strong oxidizing agents.

10.4. Hazardous decomposition products: No decomposition if stored and applied as directed.

SECTION 11: Toxicological Information

[1,3-Butylene glycol (Butane-1,3-diol) [107-88-0]]

(a) Acute toxicity:

Oral: LD50 = 22800mg/kg Rat, male Inhalation: LC0= 290 mg/m3 Rat, male (b) Skin Corrosion/Irritation: No skin irritation (Rabbit)

(c) Serious eye damage/Irritation: Mild eye irritation (Rabbit)

(d) Respiratory or skin sensitization : Not sensitizing (Human experience)

(e) Germ cell mutagenicity: Negative (Rat, male/female, In vivo)

(f) Carcinogenicity: NOAEL 5000 mg/kg/d Rat, male/female

(g) Reproductive Toxicity: LOAEL 12000 mg/kg/d Rat,

NOAEL 5000 mg/kg/d Rat,

(h) Specific target organ toxicity: N/D

(i) Aspiration hazard: N/D

[Glycerin [56-81-5]]

(a) Acute toxicity:

Oral: LD50 > 12600mg/kg Rat

Inhalation: LC50 > 530 mg/m3/1h Rat

(b) Skin Corrosion/Irritation: No skin irritation (Rabbit) LD50 > 10 mg/kg (Draize test)

(c) Serious eye damage/Irritation: Not irritating

(d) Respiratory or skin sensitization: Not sensitizing

(e) Germ cell mutagenicity: Negative (Ames test)

(f) Carcinogenicity: N/A

(g) Reproductive Toxicity: N/A

(h) Specific target organ toxicity: N/D

(i) Aspiration hazard: N/D

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SECTION 12: Ecological Information [1,3-Butylene glycol (Butane-1,3-diol) [107-88-0]]

(a) Toxicity

Method **Species Exposure time** Dose Daphnia magna (Water flea) 48h EC50: > 1000 mg/l **OECD 202** Desmodesmus subspicatus 72h EC50: > 1070 mg/l(Growth rate)**OECD 201** Oryzias latipes (Medaka) 96h LC50: > 100 mg/l**OECD 203** Activated sludge (bacteriae) 3h EC20: > 100 mg/l **OECD 209**

(b) Persistence and degradability: N/D

(c) Bioaccumlative potential: N/D

(d) Mobility in soil: N/D

(e) Results of PBT and vPvB assessment: N/D

(f) Other adverse effect: N/D

[Glycerin [56-81-5]]

(a) Aquatic toxicity:

Acute fish toxicity: LC50 > 10000 mg/l, Carp, LC50 > 1000 mg/L (48h);

Acute bacteria toxicity: EC50 > 10000 mg/l, Daphnia magna, EC50 > 1000 mg/L (3h)

(b) Persistence and degradability: Readily biodegradable, OECD 301

(c) Bioaccumlative potential: Log P octanol/water = -2.6

(d) Mobility in soil: N/A

(e) Results of PBT and vPvB assessment: N/A

(f) Other adverse effect: N/D

SECTION 13: Disposal Considerations

13.1. Product Information

Disposal required in compliance with all waste management related state and local regulations. The choice of the appropriate method of disposal depends on the product composition by the time of disposal as well as the local statutes and possibilities for disposal.

13.2. Uncleaned empty packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

SECTION 14: Transportation Information

UN Number: N/A

Proper Shipping Name: N/A **Transportation Class:** N/A Packing Group: N/A

Marine Pollutant: N/A

SECTION 15: Regulatory Information

	1,3-Butylene glycol	Palmitoyl oligopeptide
	Glycerin	
Australia(AICS)	Listed	Listed
China(IECSC)	Listed	Not Listed
Canada(DSL)	Listed	Not Listed
Europe(EINECS)	Listed	Not Listed
Japan(ENCS)	Listed	Not Listed
Korea(ECL)	Listed	Not Listed
New zealand(ERMA)	Listed	Listed
USA(TSCA)	Listed	Not Listed

SECTION 16: Other Information

Information contained in this safety data sheet is referred to the safety data sheet of 1,3-butylene glycol(Oxea), Glycerin(Acidchem) and Miwon owned data.

Disclaimer

For industrial use only. The information contained herein is accurate to the best of our knowledge. We do not suggest or guarantee that any hazards listed herein are the only ones which exist. We make no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances. User has the sole responsibility to determine the suitability of the materials for any use and the manner of use contemplated. User must meet all applicable safety and health standards.

Issuing date: 2017. 03. 01