

1. IDENTIFICATION

Product Identifier:	Biopolysan® 120
Alternate Names:	BPS 120
Intended use:	Preservative additive for cosmetic and personal care products
Manufacturer:	Copperhead Chemical Company® Inc. 120 River Road Tamaqua, PA 18252 USA
Emergency Contacts:	CHEMTREC (USA) (800) 424-9300 Copperhead Chemical Company® Inc. (888) 742-4506

2. HAZARD(S) IDENTIFICATION

Classification of the substance or mixture: Product is not classified as hazardous according to GHS

GHS Label elements: None

GHS Precautionary Statements: None

Hazards Not Otherwise Classified: May cause irritation to eyes, skin, and respiratory tract. Ingestion of large amounts may cause central nervous system depression and metabolic acidosis.

3. COMPOSITION / INFORMATION ON INGREDIENTS

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Propylene Glycol CAS Number: 57-55-6	Withheld	Not Classified	[1]
Propylene Glycol Laurate (Dodecanoic acid, monoester with 1,2-propanediol) CAS Number: 27194-74-7	Withheld	Not Classified	[1]
Glycerin (Glycerol) CAS Number: 56-81-5	Withheld	Not Classified	[1][2]
Potassium Laurate (Dodecanoic acid, potassium salt) CAS Number: 10124-65-9	Withheld	Not Classified	[1]
Glyceryl Laurate (Dodecanoic acid, 2,3-dihydroxypropyl ester) CAS Number: 142-18-7	Withheld	Not Classified	
Aqua (Water) CAS Number: 7732-18-5	Withheld	Not Classified	
Propylene Glycol Dilaurate (Dodecanoic acid 1-methyl-1,2-ethanediyl ester) CAS Number: 2278819-8	Withheld	Not Classified	[1]

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit. See Section 8.

4. FIRST AID MEASURES

Description of first aid measures:

- General:** In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
- Inhalation:** Remove to fresh air, keep patient warm and at rest. If breathing has stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention.
- Eyes:** Irrigate copiously with clean water for at least 15 minutes holding the eyelids apart, remove contact lenses.

Skin: Remove contaminated clothing. Wash skin thoroughly with soap and water.

Ingestion: If a large amount is swallowed or adverse effects occur, obtain medical attention. Do not induce vomiting unless directed by physician.

Most important symptoms and effects, both acute and delayed:

Overview: May cause irritation to eyes, skin, and respiratory tract. Ingestion of large amounts may cause central nervous system depression and metabolic acidosis.

Chronic Effects: No applicable information found

5. FIRE FIGHTING MEASURES

Extinguishing media:

Water fog or spray, dry chemical, carbon dioxide, alcohol resistant foam (ATC type).

Special hazards arising from the substance or mixture:

Violent generation of steam may occur on application of direct water stream to hot liquid.

Hazardous decomposition products:

High temperatures and fires may produce such toxic substances as nitrogen oxides, carbon monoxide and carbon dioxide.

Advice for fire-fighters:

Wear self-contained breathing apparatus with full face piece and protective fire fighting clothing. Do not use direct water stream as it may spread fire. Use water spray to cool exposed containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

All operations should be performed by trained personnel familiar with the hazards and necessary precautions. Keep unprotected and unnecessary personnel from entering the area. Use appropriate safety equipment. Remove sources of ignition. Ventilate the area. Put on appropriate personal protective equipment (see section 8). Spill area may be slippery. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing. Dispose of contaminated articles or wash them thoroughly before reuse.

Environmental precautions:

Do not allow spills to enter drains or waterways.

Methods and material for containment and cleaning up:

Large spills should be contained with a dike or a berm and can be pumped into suitable containers. Small spills should be absorbed with inert absorbent material. Do not use combustible materials such as saw dust. Scoop wetted absorbent into suitable containers. Keep containers closed and properly labeled. Wash area with water and detergent.

7. HANDLING AND STORAGE**Precautions for safe handling:**

All operations should be performed by trained personnel familiar with the hazards and necessary precautions. Practice reasonable care and take appropriate safety measures. Do not eat, drink, or smoke when handling. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Do not contaminate water, food or feed by storage and disposal.

Conditions for safe storage, including any incompatibilities:

Handle containers carefully to prevent damage and spillage. Store product in a cool, dry area away from heat, sources of ignition, direct sunlight, moisture and incompatible materials. Store only in original container. Product is hygroscopic; keep containers closed when not in use.

Incompatible materials:

Strong acids, strong bases, strong oxidizers and other materials which may react with alcohols.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits:

Exposure limits for the mixture have not been assigned. Limits established for the ingredients are provided as a guide.

CAS No.	Ingredient	Source	Value
57-55-6	Propylene Glycol	OSHA	No Established Limit
		ACGIH	TWA(Aerosol): 10 mg/m3
		NIOSH	No Established Limit
		Supplier	10 mg/m3 TWA (listed as AIHA WEEL)
27194-74-7	Propylene Glycol Laurate (Dodecanoic acid, monoester with 1,2-propanediol)	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
56-81-5	Glycerin (Glycerol)	OSHA	TWA 15 mg/m3 (total) TWA 5 mg/m3 (resp)
		ACGIH	TWA: 3 mg/m3 (respirable) 10 mg/m3 (mist)
		NIOSH	No established RELs
		Supplier	No Established Limit
10124-65-9	Potassium Laurate (Dodecanoic acid, potassium salt)	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
142-18-7	Glyceryl Laurate (Dodecanoic acid, 2,3-dihydroxypropyl ester)	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
7732-18-5	Aqua (Water)	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
22788-19-8	Propylene Glycol Dilaurate (Dodecanoic acid 1-methyl-1,2-ethanediyl ester)	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit

Exposure controls:

Respiratory: Occupation exposures from this material should be determined by individuals with experience in industrial hygiene. The selection of appropriate respiratory protective equipment should be based on results from industrial hygiene surveys and respirator manufacturer's specifications and/or recommendations.

Eyes: Wear chemical safety glasses, goggles or face shield appropriate for the potential exposure.

Skin: Use protective clothing which is appropriate for the potential exposure. Any portion of the body which may come in contact with the product should be protected by materials that are impervious to the product under the conditions of use.

Engineering Controls: Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of mists and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Other Work Practices: Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear colorless Liquid
Odor	Faint odor characteristic of propylene glycol
Odor threshold	No applicable information found
pH	8.7 (1% w/w suspension in water)
Melting point / freezing point	No applicable information found
Initial boiling point and boiling range	No applicable information found
Flash Point	No applicable information found
Evaporation rate (Ether = 1)	No applicable information found
Flammability (solid, gas)	No applicable information found
Upper/lower flammability or explosive limits	No applicable information found
Vapor pressure	No applicable information found
Vapor Density	No applicable information found
Specific Gravity	1.031 g/cc at 25°C
Solubility in Water	Appreciable
Partition coefficient n-octanol/water (Log Kow)	No applicable information found
Auto-ignition temperature	No applicable information found
Decomposition temperature	No applicable information found
Viscosity (cSt)	72.5 cP at 20°C; 25 cP at 40°C

10. STABILITY AND REACTIVITY

Reactivity: No applicable information found

Chemical stability: No applicable information found

Possibility of hazardous reactions: No applicable information found

Conditions to avoid: No applicable information found

Incompatible materials: Strong acids, strong bases, strong oxidizers and other materials which may react with alcohols.

Hazardous decomposition products: High temperatures and fires may produce such toxic substances as nitrogen oxides, carbon monoxide and carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Routes of exposure: Skin contact, eye contact, inhalation, ingestion and injection are potential routes of exposure.

Symptoms of exposure: See Section 4.

Acute toxicity:

Acute oral, Rat – LD50 = >5000 mg/kg

Acute dermal, Rabbit, LD50: >5000 mg/kg

Skin irritation, Rabbit: dermal irritant

Eye irritation, Rabbit: conjunctival irritation cleared within 72 hours

Carcinogenic Effects: This product does not contain any ingredients that are carcinogens or potential carcinogens listed by OSHA, NTP or IARC.

12. ECOLOGICAL INFORMATION

Ecological Toxicity:

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and GHS and is not classified as dangerous for the environment, but contains substance(s) dangerous for the environment. See section 3 for details

Aquatic Ecotoxicity:

No applicable information was found for the mixture. Information about the ingredients is provided as a guide.

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Propylene Glycol CAS Number: 57-55-6	40,613.00, Oncorhynchus mykiss	18,340.00, Ceriodaphnia dubia	19,000.00 (96 hr), Pseudokirchneriella subcapitata
Propylene Glycol Laurate (Dodecanoic acid, monoester with 1,2-propanediol) CAS Number: 27194-74-7	No applicable information found	No applicable information found	No applicable information found
Glycerin (Glycerol) CAS Number: 56-81-5	67,500.00, Oncorhynchus mykiss	10,000.00, Daphnia magna	No applicable information found
Potassium Laurate (Dodecanoic acid, potassium salt) CAS Number: 10124-65-9	No applicable information found	No applicable information found	No applicable information found
Glyceryl Laurate (Dodecanoic acid, 2,3-dihydroxypropyl ester) CAS Number: 142-18-7	No applicable information found	No applicable information found	No applicable information found
Aqua (Water) CAS Number: 7732-18-5	No applicable information found	No applicable information found	No applicable information found
Propylene Glycol Dilaurate (Dodecanoic acid 1-methyl-1,2-ethanediyl ester) CAS Number: 2278819-8	No applicable information found	No applicable information found	No applicable information found

Persistence and degradability: No applicable information found

Bioaccumulative potential: No applicable information found

Mobility in soil: No applicable information found

Results of PBT and vPvB assessment: No applicable information found

13. DISPOSAL CONSIDERATIONS

Disposal Method: All disposal must be in compliance with Federal, State, and Local regulations. Do not discharge effluent containing this product into any sewers, on the ground or into any body of water.

Container Disposal: Do not distribute, make available, furnish or reuse empty container except for storage and shipment of original product.

14. TRANSPORT INFORMATION

This material is not regulated by the US DOT.

15. REGULATORY INFORMATION

Regulatory Overview:	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.	
Toxic Substance Control Act (TSCA):	All components of this material are either listed or exempt from listing on the TSCA Inventory.	
WHMIS Classification:	Not Regulated	
US EPA Tier II Hazards:	Fire:	No
	Sudden Release of Pressure:	No
	Reactive:	No
	Immediate (Acute):	No
	Delayed (Chronic):	No
EPCRA 313 Toxic Chemicals:	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.	
Proposition 65:	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.	
New Jersey RTK Substances (>1%):	Glycerol Propylene Glycol	
Pennsylvania RTK Substances (>1%):	Glycerol Propylene Glycol	

16. OTHER INFORMATION

Date Prepared: 1/25/18

The information contained herein is believed to be accurate and represents the best information currently available to us. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. No warranty, either expressed or implied, of merchantability or fitness for a particular purpose, or of any nature with respect to the product, or to the information, is made herein.

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