

PhytoCide Lichen Natural Preservative

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SECTION 1. IDENTIFICATION

Product Name:	PhytoCide Lichen Natural Preservative
INCI Name:	<i>2,3-Butanediol & Cladonia Rangiferina Extract</i>
CAS#:	513-85-9 & 92346-91-3
Recommended Use	Topical Cosmetic Use
Supplier:	Bulk Naturals Wholesale LLC. 212 N Jefferson Unit 12A Ava, Mo 65608, USA
Telephone No. (24hrs):	1-573-465-0612
Emergency Telephone # :	1-573-465-0612(Mon-Fri: 8:00AM – 5:00PM CST)

SECTION 2. HAZARD(S) IDENTIFICATION

GHS Classification:	Based on present data no classification and labeling are required according to GHS, taking into account the national implementation (United Nations version 2011).
USA OSHA Regulatory Status:	This material is non-hazardous as defined by the American OSHA Hazard Communication Standard (29 CFR 1910.1200).

GHS Label elements

Hazard statement(s)/Signal:	Not applicable.
Precautionary statement(s):	
P233	Keep the container tightly closed.
P281	Use personal protective equipment as required.
P402	Store in a dry place.
P404	Store in a closed container.
P410	Protect from sunlight.
P411	Store at temperatures not exceeding 32°C.

Other hazards which do not result in classification:

By mechanical effect:	No particular hazards.
By hygroscopic effect	No particular hazards.

US NFPA 704 (National Fire Protection Association) Hazard Rating System:

Health hazard:	Rating 0; Normal material
Flammability:	Rating 0, Will not burn
Reactivity:	Rating 0, Stable



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SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Product Name	CAS Numbers	EC Numbers	Percentage
2,3-Butanediol	513-85-9	208-173-6	50.0%
Cladonia Rangiferina Extract	92346-91-3	296-176-3	50.0%

SECTION 4. FIRST AID MEASURES

General:	In all cases of doubt, or when symptoms persist, seek medical attention.
Inhalation:	Move to fresh air from the exposure area. Get medical attention for any breathing difficulty.
Skin contact:	Rinse with soap and water. Get medical advice if irritation develops.
Eye contact:	Immediately rinse with plenty of water for at least 15 minutes, while keeping the eyes wide open. Consult with a physician.
Ingestion:	Consult with a physician.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Water, dry chemicals, foam & carbon dioxide.
Special precaution for fire-fighters:	Move the container from the fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of the low areas.
Fire and explosion hazards:	Not considered to be a fire and explosion hazard.
Protection for fire-fighters:	Boots, gloves, and goggles.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Avoid contact with eyes. Personal Protective Equipment: -Protective goggles.
Environmental precautions:	Prevent entry to sewers and public waters. Notify authorities if the product enters sewers or public waters.
Methods for cleaning up:	Pick up free liquid for recycling or disposal. Residual liquid can be absorbed by an inert material. Sweep or vacuum up any powder and place it in a clearly labeled waste container, avoiding dust formation.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:	Keep out of the reach of children. For industrial use, only as directed. Wash hands after use. Avoid storage near feed or food stuff.
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The information given and the recommendations made herein are based on our research and are believed to be accurate but no guarantee of their accuracy is made and we assume no liability regarding this formula or information contained herein. In every case we urge and recommend that our customers make their own tests to determine to their own satisfaction whether the product is suitable for their particular purposes under their own operating conditions. Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention covered by any patent without the authority from the owner of this patent

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Recommended Storage Conditions:

Keep the container closed. Store in a dry place at temperatures not exceeding 32°C. Based on stability studies, the optimum storage temperature for maximization of shelf life is 23-25°C. However, it may be stored at temperatures between 16 and 32°C if such specific temperature control is not available. Do not freeze

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory protection:	Local exhaust.
Hand protection:	Protective gloves made of rubber or neoprene.
Eye protection:	Safety glasses.
Skin and Body Protection:	Suitable protective clothing.
Hygiene measures:	Handle in accordance with good hygiene and safety practices.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear to slightly hazy liquid.
Color:	Light yellow to amber.
Odor:	Characteristic.
pH (Direct):	6.0 – 8.0
Usnic Acid (UV-Vis):	0.15 – 0.30%
Specific Gravity:	1.02
Flashpoint:	> 93°C
Solubility:	Soluble in water.

SECTION 10. STABILITY AND REACTIVITY

Stability:	Chemically stable.
Conditions to avoid:	No dangerous reactions are known. Avoid extreme heat.
Incompatible materials:	No dangerous reaction is known with common products.
Hazardous decomposition products:	None known.

SECTION 11. TOXICOLOGICAL INFORMATION

Inhalation:	Not Determined.
Dermal:	Non-Irritant (Dermal Irritation Model).
Ocular:	Non-Irritant (Ocular Irritation Model).
Ingestion:	Not Determined.

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Additional Toxicological Information:

This product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity:

EC10 (Freshwater Alga): 106.9 mg/L - Not harmful to aquatic organisms.

EC20 (Freshwater Alga): 197.5 mg/L - Not harmful to aquatic organisms.

Products of Biodegradation:

Readily Biodegradable (93.4% biodegradation after 28 days of testing).

SECTION 13. DISPOSAL CONSIDERATIONS

Prohibition:

Do not allow the product to be released into the Environment.

Destruction/Disposal:

Dispose of in accordance with relevant local regulations.

SECTION 14. TRANSPORT INFORMATION

This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation, as Non-Regulated Material.

SECTION 15. REGULATORY INFORMATION

This product does not need to be labeled in accordance with EC Directives or respective national laws.

SECTION 16. OTHER INFORMATION

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