

SAFTEY DATA SHEET

NanoBio® Protect

SDS: BWB-NBP-1.0

Version: 1.0

Issue Date: 04/13/2020

Revision Date: N/A

This safety data sheet was developed based on regulations applicable to an industrial/occupational setting and may be applicable to distribution personnel. This safety data sheet does not address consumer use; for any information relevant to consumer use or retail handling, refer to the package label.

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product name: NanoBio® Protect

Synonym(s): None

Product code(s): UPC: 374315001015
NDC: 73415-001-01

Product type: Finished Product - Consumer (Retail) Use Only

Recommended use: Topical antimicrobial

Company: BlueWillow Biologics, Inc.
2311 Green Road, Suite A
Ann Arbor, MI 48101 USA

Emergency Phone: CHEMTREC: (800)-620-3781
US: (734)-302-4000; FAX (734)-302-9150

SECTION 2: HAZARDS IDENTIFICATION

This is a personal care product that is safe for consumers and other users under normal and reasonably foreseeable use. This safety data sheet was developed based on regulations applicable to bulk substances in an industrial/occupational setting.

For Consumer - Ingredients in this product are not deemed to be hazardous when the product is used as intended.

For Manufacturing site personnel. This product is classified under 29CFR 1910.1200(d) as follows:

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Hazard pictograms	None
Precautionary Statements Prevention	None
Precautionary Statements Response	None
Precautionary Statements Storage	None
Precautionary Statements Disposal	None
Hazards not otherwise classified (HNOC)	None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients are listed according to 29CFR 1910.1200 Appendix D

Chemical Name	Synonyms	Trade Secret	Cas No.	% Weight
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (50-70% w/w) in ethanol (10-15% w/w)	Benzalkonium chloride	No	68424-85-1	0.13

SECTION 4: FIRST AID MEASURES

First aid measures for different exposure routes:

Eye contact:	Rinse immediately with plenty of water, also under eyelids, for at least 15 minutes. Get medical attention immediately if irritation persists.
Skin contact:	None under normal use
Ingestion:	Call a physician or Poison Control Center immediately if swallowed

Inhalation: None under normal use

**Most important symptoms/
effects (acute and delayed)** No information available

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician Treat symptomatically

SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media Material will not burn. Water. Dry chemical. Alcohol-resistant foam.

Unsuitable extinguishing media None

Special hazard None known

**Special protective equipment for
fire-fighters** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

No special protective actions are anticipated

**Special hazards arising from the
chemical** None

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective gloves/clothing and eye/face protection. Do not get in eyes, on skin or on clothing.

Will cause slippery surfaces if accidentally released/spilled.

Advice for emergency responders Use personal protective equipment as required

Environmental precautions **Household:**
Product is safe to dispose of in household garbage or down the drain

Non-household:

Do not discharge product into natural waters without pre-treatment or adequate dilution

Methods and materials for containment and clean up

Methods of containment Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.

Methods of cleaning up Contain spillage, and then collect with non-combustible absorbent material, (e.g., sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (see section 13)

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Keep container closed when not in use

Conditions for safe storage, including any incompatibilities

Storage conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

Store in a cool, dry place between 15°C - 29°C (59°F - 84°F).
Avoid freezing conditions.

Incompatible products None known

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Control parameters

Exposure guidelines No exposure limited noted for ingredient(s)

Exposure controls

This safety data sheet was developed based on regulations applicable to bulk substances in an industrial/occupational setting.

For Consumers/ Retail personnel Follow product label and warnings when using and/or handling this product

For Distribution/Manufacturing sites Follow the procedure as listed according to your Workplace Safety protocols

Engineering measures No information available

Personal Protective Equipment

Eye protection None required under normal conditions

Hand protection None required under normal conditions

Skin and body protection None required under normal conditions

Respiratory protection None required under normal conditions

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White, watery liquid
Odor	None
Odor threshold	No information available
pH value	4.0 – 6.0 (20°C)
Melting/freezing point	No information available
Boiling Point/boiling range	No information available
Flash point	No information available
Evaporations rate	No information available
Flammability (solid, gas)	No information available
Flammability Limits in Air	
Upper flammability limit	No information available
Lower flammability limit	No information available
Vapor pressure	No information available
Vapor density	No information available
Relative density	No information available
Water solubility	No information available
Solubility in other solvents	No information available
Partition coefficient: n-octanol/water	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Viscosity	1.1 cP

SECTION 10: STABILITY AND REACTIVITY

Stability Stable under normal conditions

Reactivity	None under normal use conditions
Hazardous reactions	None under normal processing
Conditions to avoid	None under normal processing
Materials to avoid	None under normal use
Hazardous Decomposition Products	None under normal use

SECTION 11: TOXICOLOGICAL CONDITIONS

Toxicological information No acute or chronic toxic side effects expected when used according to directions

Product information – Information on likely routes of exposure

Inhalation	No known effects
Skin contact	No known effects
Ingestion	No known effects
Eye contact	No known effects

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Acute toxicity	No known effects
Skin corrosion/irritation	No known effects
Serious eye damage/eye irritation	No known effects
Skin sensitization	No known effects
Respiratory sensitization	No known effects
Germ cell mutagenicity	No known effects
Neurological effects	No known effects
Reproductive toxicity	No known effects
Developmental toxicity	No known effects
Teratogenicity	No known effects
STOT – single exposure	No known effects
STOT – repeated exposure	No known effects
Target Organ Effects	No known effects
Aspiration hazard	No known effects
Carcinogenicity	No known effects

Component information

Chemical Name	Cas No.	LD ₅₀ Oral	LD ₅₀ Dermal	LD ₅₀ Inhalation
Benzalkonium Chloride	8001-54-5	250 mg/kg (rat)	1420 mg/kg (rat)	No data available

SECTION 12: ECOLOGICAL INFORMATION

Ecological information	No ecological or otherwise special considerations when used according to directions. The product is not expected to be hazardous to the environment, expedited usage and waste water treatment processes.
Persistence and degradability	No information available
Bioaccumulation potential	No information available
Mobility	No information available
Other adverse effects	No information available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste disposal method	Disposal should be in accordance with applicable federal, state and local laws and regulations.
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SECTION 14: TRANSPORT INFORMATION

Transportation	Refer to all current transport regulations for exact requirements
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SECTION 15: REGULATORY INFORMATION

Food and Drug Administration (FDA)

The product described in this Safety Data Sheet is regulated under the Federal Food, Drug and Cosmetics Act and is safe to use as per directions on container, box, or accompanying literature (where applicable)

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (See 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

Clean Water Act

This product does not contain any substances regulated as pollutants to the Clean Water Act (40 CFR 122.21 or 40 CFR 122.42)

California Proposition 65

This product is not subject to warning labeling under California Proposition 65

SECTION 16: OTHER INFORMATION

Issue Date: 04/13/2020

Revision Date: N/A

Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling , use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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 process, unless specified in the text.

End of SDS