natural
BULK SUPPLIES

SAFETY DATA SHEET
BAMBOO EXTRACT IN GLYCERIN

1. PRODUCT INFORMATION AND COMPANY IDENTIFICATION

Product Name: Bamboo Extract in Glycerin

Company: Natural Bulk Supplies, 318 Half Day Rd, # 348,
Buffalo Grove, IL 60089 Phone: 847-489-7180

Emergency Contact: Infotrac: 800-535-5053(North America) +1-352-323-3500 (International)

2. HAZARD IDENTIFICATION

Classification of the substance or mixture
GHS US classification
Not classified

GHS Label elements, including precautionary statements
GHS US labeling
No labeling applicable

Other hazards which do not result in classification
No additional information available

Unknown acute toxicity (GHS US)
No additional information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances
Not applicable

Mixtures

Name	Product identifier	%	GHS US classification
Glycerin	CAS-No.: 56-81-5	46.5 – 48.9	Not classified
Water	CAS-No.: 7732-18-5	46.5 – 48.9	Not classified

BAMBUSA VULGARIS LEAF/STEM EXTRACT	CAS-No.: 91771-33-4	2 – 6	Not classified
Phenoxyethanol	CAS-No.: 122-99-6	0.9 – 1.1	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 STOT SE 3, H335

Full text of hazard classes and H-statements : see section 16

4. FIRST AID MEASURES

Description of first aid measures

First-aid measures general :
If you feel unwell, seek medical advice.

First-aid measures after inhalation :
Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact :
Wash skin with plenty of water.

First-aid measures after eye contact :
Rinse eyes with water as a precaution.

First-aid measures after ingestion :
Call a poison center/doctor/physician if you feel unwell.

Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation :
None under normal conditions.

Symptoms/effects after skin contact :
None under normal conditions.

Symptoms/effects after eye contact :
None under normal conditions.

Symptoms/effects after ingestion :
None under normal conditions.

Immediate medical attention and special treatment, if necessary

Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media
Suitable extinguishing media :
Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media :
Do not use a heavy water stream.

Specific hazards arising from the chemical
Fire hazard :
No fire hazard.

Explosion hazard :
No direct explosion hazard.

Hazardous decomposition products in case of fire :
Carbon dioxide. Carbon monoxide.

Special protective equipment and precautions for fire-fighters
Firefighting instructions :
Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.

Protection during firefighting :
Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
General measures :
Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material-damage.

For non-emergency personnel
Protective equipment :
Wear recommended personal protective equipment.

Emergency procedures :
Ventilate spillage area.

For emergency responders
Protective equipment :

Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures :
Evacuate unnecessary personnel. Stop leak if safe to do so.

Environmental precautions
Avoid release to the environment.

Methods and material for containment and cleaning up
For containment :
Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak, if possible without risk.

Methods for cleaning up :
Take up liquid spill into absorbent material.

Other information :
Dispose of materials or solid residues at an authorized site.

Reference to other sections
For further information refer to section 13.

7. HANDLING AND STORAGE

Precautions for safe handling
Additional hazards when processed :
Not expected to present a significant hazard under anticipated conditions of normal use.

Precautions for safe handling :
Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures :
Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

Conditions for safe storage, including any incompatibilities
Technical measures :
Keep in a cool, well-ventilated place away from heat.

Storage conditions :
Keep cool. Protect from sunlight.

Packaging materials :
Store always product in container of same material as original container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Glycerin (56-81-5)
USA - OSHA - Occupational Exposure Limits

Local name	Glycerin (mist)
OSHA PEL TWA	15 mg/m3 (mist, total particulate) 5 mg/m3 (mist, respirable fraction)
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

8.2. Appropriate engineering controls
Appropriate engineering controls :
Ensure good ventilation of the work station.

Environmental exposure controls :
Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment
Personal protective equipment:
Wear recommended personal protective equipment.

Hand protection:
Protective gloves

Eye protection:
Safety glasses

Skin and body protection:
Wear suitable protective clothing

Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid
Color	Colorless to light yellow
Odor	Characteristic
Odor Threshold	No data available
pH	4.0 - 7.0
Melting Point	Not applicable
Freezing Point	No data available
Boiling Point	No data available
Flash Point	> 100 °C
Relative evaporation rate (butyl acetate=1)	No data available
Flammability (solid, gas)	No data available
Vapor pressure	No data available
Relative vapor density at 20°C	No data available
Relative density	1.05 - 1.20
Solubility	Soluble.
Partition coefficient n-octanol/water (Log Pow)	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
Explosion limits	No data available
Explosive properties	None reported.
Oxidizing properties	None reported.

Other information

No additional information available

10. STABILITY AND REACTIVITY

Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

Chemical stability
Stable under normal conditions.

Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.

Conditions to avoid
Direct sunlight. extreme temperatures.

Incompatible materials
No additional information available

Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects
Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Glycerin (56-81-5)

LD50 oral rat	12600 mg/kg
LD50 dermal rabbit	> 10 g/kg
LD50 dermal	56750 mg/kg (4 day(s), Guinea pig, Male / female, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	> 2.75 mg/l/4h
LC50 Inhalation - Rat (Vapors)	> 2.75 mg/l Source: ECHA

Phenoxyethanol (122-99-6)

LD50 oral rat	1850 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	14391 mg/kg (24 h, Rat, Male / female, Dermal, 48 day(s))

LD50 dermal rabbit	5 ml/kg
LC50 Inhalation - Rat	> 0.057 mg/l (Exposure time: 8 h)

Skin corrosion/irritation : Not classified
pH: 4 – 7

Glycerin (56-81-5)

pH	5.5 – 8

Phenoxyethanol (122-99-6)

pH	No data available in the literature

Serious eye damage/irritation : Not classified
pH: 4 – 7

Glycerin (56-81-5)

pH	5.5 – 8

Phenoxyethanol (122-99-6)

pH	No data available in the literature

Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified

Phenoxyethanol (122-99-6)

LOAEL (animal/male, F1)	≈ 1875 mg/kg body weight Animal: mouse, Animal sex: male, Guideline: other:
LOAEL (animal/female, F1)	≈ 1875 mg/kg body weight Animal: mouse, Animal sex: female, Guideline: other:
STOT-single exposure	Not classified

Phenoxyethanol (122-99-6)

STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	Not classified

Phenoxyethanol (122-99-6)

LOAEL (oral,rat,90 days)	> 700 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EPA OPPTS 870.3100 (90- Day Oral Toxicity in Rodents)
LOAEL (dermal,rat/rabbit,90 days)	> 500 mg/kg body weight Animal: rabbit, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)
NOAEL (dermal,rat/rabbit,90 days)	500 mg/kg body weight Animal: rabbit, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)

Aspiration hazard : Not classified
Viscosity, kinematic : No data available

Glycerin (56-81-5)

Viscosity, kinematic	No data available in the literature

Phenoxyethanol (122-99-6)

Viscosity, kinematic	No data available in the literature

Symptoms/effects after inhalation : None under normal conditions.
Symptoms/effects after skin contact : None under normal conditions.
Symptoms/effects after eye contact : None under normal conditions.
Symptoms/effects after ingestion : None under normal conditions.

12. ECOLOGICAL INFORMATION

Toxicity
Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

Glycerin (56-81-5)

LC50 - Fish [1]	51 – 57 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 - Crustacea [1]	> 10000 mg/l (24 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)

Phenoxyethanol (122-99-6)

LC50 - Fish [1]	220 – 460 mg/l (DIN 38412: German standard methods for the examination of water, waste water and sludge, 96 h, Leuciscus idus, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 - Crustacea [1]	> 500 mg/l (Equivalent or similar to OECD 202, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Behaviour)
LC50 - Fish [2]	366 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 72h - Algae [1]	> 500 mg/l (Species: Desmodesmus subspicatus)
ErC50 algae	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)

Persistence and degradability

BAMBOO EXTRACT IN GLYCERIN

Persistence and degradability	Biodegradable.

Glycerin (56-81-5)

Persistence and degradability	Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.87 g O2/g substance
Chemical oxygen demand (COD)	1.16 g O2/g substance
ThOD	1.217 g O2/g substance

Water (7732-18-5)

Persistence and degradability	Biodegradability: not applicable.

Phenoxyethanol (122-99-6)

Persistence and degradability	Readily biodegradable in water.

BAMBUSA VULGARIS LEAF/STEM EXTRACT (91771-33-4)

Persistence and degradability	Rapidly degradable

Bioaccumulative potential

Glycerin (56-81-5)

BCF - Fish [1]	(no bioaccumulation)
Partition coefficient n-octanol/water (Log Pow)	-1.76
Bioaccumulative potential	Not bioaccumulative.

Phenoxyethanol (122-99-6)

Partition coefficient n-octanol/water (Log Pow)	1.2 (Experimental value, EU Method A.8: Partition Coefficient, 23 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

Mobility in soil

Glycerin (56-81-5)

Surface tension	63.4 mN/m (20 °C, 1000 g/l)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Highly mobile in soil.

Phenoxyethanol (122-99-6)

Surface tension	70.7 mN/m (20 °C, 1 g/l, EU Method A.5: Surface tension)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.6 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP)
Ecology - soil	Highly mobile in soil.

Other adverse effects

No additional information available

13. DISPOSAL CONSIDERATIONS

Disposal methods

Regional waste regulation :
Disposal must be done according to official regulations.

Waste treatment methods :
Dispose of contents/container in accordance with licensed collector's sorting instructions.

Sewage disposal recommendations :
Disposal must be done according to official regulations.

Product/Packaging disposal recommendations :
Disposal must be done according to official regulations.

Additional information :
Do not re-use empty containers.

14. TRANSPORT INFORMATION

In accordance with DOT / TDG / IMDG / IATA

DOT	TDG	IMDG	IATA
UN number			
Not regulated for transport			
Proper Shipping Name			
Not regulated	Not regulated	Not regulated	Not regulated
Transport hazard class(es)			
Not regulated	Not regulated	Not regulated	Not regulated
Packing group			
Not regulated	Not regulated	Not regulated	Not regulated
Environmental hazards			
Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available			

Special precautions for user
DOT
Not regulated

TDG
Not regulated

IMDG
Not regulated

IATA
Not regulated

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable

15. REGULATORY INFORMATION

US Federal regulations
All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:

BAMBUSA VULGARIS LEAF/STEM EXTRACT	CAS-No. 91771-33-4	2 – 6%

International regulations
No additional information available

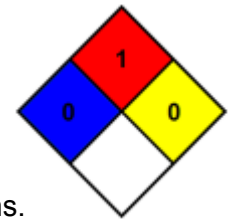
US State regulations
California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	State or local regulations
Glycerin(56-81-5)	U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Massachusetts - Right To Know List

16. OTHER INFORMATION

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Full text of hazard classes and H-statements
H302 Harmful if swallowed
H318 Causes serious eye damage
H335 May cause respiratory irritation

NFPA health hazard :
0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.



NFPA fire hazard :
1 - Materials that must be preheated before ignition can occur.

NFPA reactivity :
0 - Material that in themselves are normally stable, even under fire conditions.

Hazard Rating
Health :
0 Minimal Hazard - No significant risk to health

Flammability :
1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)

Physical :
0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal protection : A - Safety glasses.

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