

## **CERTIFICATE OF ANALYSIS**

Product Name: PLANTASERVE E

Batch Number: 4344409

Best Before End: DECEMBER 2021

Characteristic / Method	Unit	Analysis / Result	Standard
Appearance		Conforms	Colourless to pale yellow viscous liquid
Phenol content	%	<10	10.00 max
Ethylhexyl Glycerin content	%	9.99	9.00 - 11.00
Phenoxyethanol	%	90.01	89.00 – 91.00



## **Allergen Statement**

## Plantaserve E

This is to certify that the above mentioned product (INCI: Phenoxyethanol/Ethylhexylglycerin) does not contain any of the prohibited allergens listed in Annex III of the Directive 2003/15/EC (7<sup>th</sup> amendment of the EU Cosmetics Directive), in its subsequent amendments or in the cosmetics Regulation (EC) 1223/2009.

We, MADAR Corporation Ltd., hereby declare that the product Plantaserve E is of synthetic origin and free from Allergens including Nuts.

12/08/19

MADAR Corporation expressly denies any responsibility for the suitability of the products for any specific or particular purposes intended by the user. Suggestions for the use and application of the products and guide formulations are given for information purpose only and without commitment. Such suggestions do not release MADAR Corporation's customers from testing the products as to their suitability for the customer's intended processes and purposes. MADAR Corporation does not assume any liability or risk involved in the use of its product s as the conditions of use are beyond its control. The user of the products is solely responsible for compliance with all laws & regulations applying to the use of the products, including intellectual property rights of third parties.



## **SAFETY DATA SHEET**

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH) & 1272/2008 (CLP)

10/09/12

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

GHS Product Identifier

Chemical Name 2-Phenoxyethanol mixture with Ethylhexylglycerin

**PLANTASERVE E** 

Other names 2-Phenoxyethanol mixture with 3-(2-ethylhexyloxy)propane-1,2-diol

CAS No. 122-99-6 and 70445-33-9 EINECS / ELINCS No. 204-589-7 and 408-080-2

1.2 Relevant identified uses of the substance or

mixture and uses advised against

Identified use(s) Preservative for cosmetics and personal care products

Uses advised against None known.

1.3 Details of the supplier of the safety data sheet

Company Identification

**MADAR Corporation Limited** 

19-20 Sandleheath Industrial Estate

Fordingbridge Hampshire SP6 1PA

Telephone 01425 655555

1.4 Emergency telephone number 01425 655555

## 2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

**2.1.1** Regulation (EC) No. 1272/2008 (CLP) Acute Tox. 4 (Ingestion) H302 Eye Irrit. 2 H319

**2.1.2 Directive 67/548/EEC & Directive 1999/45/EC** Xn Xi

R22: Harmful if swallowed. R36: Irritating to eyes.

2.2 Label elements

2.2.1 Label elements According to EC 1272/2008

GHS Product Identifier PRESERVE POG



Hazard pictogram(s)

Signal word(s)

Hazard statement(s)

Precautionary statement(s)

Warning

H302: Harmful if swallowed.

H319: Causes serious eye damage.

P102: Keep out of reach of children.

P280: Wear protective gloves/protective clothing/eye

protection/face protection.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

**2.2.2 Label elements** According to Directive 67/548/EEC :



Xr

Risk Phrases R22: Harmful if swallowed.

R36: Irritating to eyes.

Safety Phrases S2: Keep out of the reach of children.

S26: In case of contact with eyes, rinse immediately with

plenty of water and seek medical advice.

S37/39: Wear suitable gloves and eye/face protection.

2.3 Other hazards Inhalation of the vapour may cause irritation of the nose and

upper respiratory tract

2.4 Additional Information

**Pictogram** 

## 3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

## 3.1 Substances

EC Classification No. 1272/2008

Hazardous Ingredient(s)	%W/W	CAS No.	EC No.	Hazard staten	nent(s)
2-Phenoxyethanol	> 90%	122-99-6	204-589-7	Acute Tox. 4	H302
Index No. : 603-098-00-9				Eye Irrit. 2	H319
Ethylhexylglycerin Index No. 603-168-00-9	<10%	70445-33-9	408-080-2	Eye Dam. 1 Aquatic Chronic 3	H318 H412

#### EC Classification No. 67/548/EEC

Hazardous Ingredient(s)	%W/W	CAS No.	EC No.	Classification and Risk
				Phrases
2-Phenoxyethanol	90%	122-99-6	204-589-7	Xn Xi
Index No. : 603-098-00-9				R22: Harmful if swallowed.
				R36: Irritating to eyes.
Ethylhexylglycerin	10%	70445-33-9	408-080-2	Xi
Index No. 603-168-00-9				R41: Risk of serious
				damage to eyes.
				R52/53: Harmful to aquatic
				organisms, may cause long-
				term adverse effects in the
				aquatic environment.

#### 3.3 Additional Information

For full text of R/H/P phrases see section 16.

## 4. SECTION 4: FIRST AID MEASURES



#### 4.1 Description of first aid measures

Inhalation Remove persons affected to fresh air. Keep patient warm and

at rest. Apply artificial respiration if necessary. If breathing is laboured, administer oxygen. Obtain medical attention if

symptoms develop

Skin Contact Remove contaminated clothing immediately and wash

affected skin with soap and plenty of water.Wash

contaminated clothing before reuse. Obtain medical attention

if irritation develops

Eye Contact Obtain medical attention. If substance has got into the eyes,

immediately wash out with plenty of water for at least 15

minutes.

Ingestion Wash out mouth with water and give 200-300 ml (half a pint)

of water to drink. Do not induce vomiting. Obtain medical

attention if symptoms develop

4.2 Most important symptoms and effects, both

acute and delayed

Irritation, coughing, headache, nausea, dizziness, vomiting,

4.3 Indication of the immediate medical attention

and special treatment needed

Increased difficulty in breathing. headache, dizziness

### 5. SECTION 5: FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing media

Suitable Extinguishing Media

Extinguish with alcohol-resistant foam, carbon dioxide, dry chemical or water spray.

Unsuitable Extinguishing Media Water jet

5.2 Special hazards arising from the substance or mixture

Produces harmful vapours. Evacuate area if there are

audible sounds from venting drums

5.3 Advice for fire-fighters

Self-contained breathing apparatus to be worn if involved in fire. Water spray should be used to cool containers.

### 6. SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment

and emergency procedures **Environmental precautions** 

6.2

6.4

Put on protective clothing. Avoid contact with skin and eyes.

Caution - spillages may be slippery.

Do not allow to enter drains, sewers or watercourses. If substance has entered a watercourse or sewer,

IMMEDIATELY advise water authority.

6.3 Methods and material for containment and cleaning up

Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a lidded plastic container for disposal or recovery. Disposal should be in accordance with local or

national legislation.

Reference to other sections See Section: 8 (Exposure controls / PPE) & 13 (Disposal)

#### 7. SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling Ensure adequate ventilation. Avoid contact with skin, eyes and clothes. Avoid inhalation of vapours or mists. Do not

7.2 Conditions for safe storage, including any incompatibilities

> Storage Temperature Storage Life

Incompatible materials

Other information

Store in plastic or plastc-lined containers. Keep containers tightly closed when not in use. Prevent contact with air < 40 degC.

Two years

Strong oxidising agents. Strong bases. Aluminium, Copper,

Zinc, Galvanized iron

Take precautionary measures against static discharges.

#### 8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

8.1.1 **Occupational Exposure Limits** LTEL (8 hr TWA mg/m<sup>3</sup>)

WEL: Workplace Exposure Limit (UK HSE EH40) Not applicable.

8.2 **Exposure controls** 

8.2.1 Appropriate engineering controls Provide adequate ventilation, including appropriate local extraction if dusts, fumes or vapours are likely to be evolved.

8.2.2 Personal protection equipment

Eye/face protection

Safety spectacles/goggles. Minimum standard EN166.



Skin protection (Hand protection/ Other)



Plastic or rubber gloves as appropriate for other materials and the process. Minimum standard EN374-3. Apron or other light protective clothing.

Respiratory protection



Wear suitable respiratory protective equipment if processing involves working in areas where aerosols, mists or dusts are likely to be evolved .: Full-/Half-/quarter-face masks (EN 136/140/141) with Type A filter

Other

General hygiene measures for the handling of chemicals are applicable. Wash hands before breaks and after work. Wash contaminated clothing before reuse.

8.2.3 **Environmental Exposure Controls**  Do not allow to enter drains, sewers or watercourses.

#### 9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

## 9.1 Information on basic physical and chemical

Evaporation rate (Butyl acetate = 1)

properties (Solution)

Clear Liquid Appearance Colour Colourless Odour Faint Odour Threshold (ppm) Not available. pH (Value) Not available. Melting Point (°C) / Freezing Point (°C) -5 degC Boiling point/boiling range (°C): > 245 degC 121 degC Flash Point (°C) [Open cup]

Explosive limit ranges Not applicable. Test not scientifically justified

Not available

Vapour Pressure 0.02 hPa at 25 degC

Vapour Density (Air=1) 4.8

Density (g/ml) ~ 1.1 at 20 degC Solubility (Water)(20 degC) Slightly soluble (~5%)

Solubility (Other) Miscible with alcohols and glycols

Partition Coefficient (n-Octanol/water)

Auto Ignition Temperature (°C)

Decomposition Temperature (°C)

> 200 degC

Viscosity (mPa.s) ~ 28 mPa.s at 20 degC

Explosive properties Not explosive.

Oxidising properties Not oxidising

9.2 Other information

### 10. SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity Alcohol reactions

**10.2 Chemical stability** Stable under normal conditions.

10.3 Possibility of hazardous reactions May form peroxides in contact with air or oxygen

**10.4 Conditions to avoid** Temperatures > 40 degC

10.5 Incompatible materials Strong oxidising agents. Strong bases, Aluminium, Copper,

Zinc

0.6 Hazardous Decomposition Product(s) Peroxides

#### 11. SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

#### 11.1.1 Substances

**Acute toxicity** 

 $\begin{tabular}{ll} Ingestion & LD50: 1 850 mg/k (rat)( 2-Phenoxyethanol) \\ Inhalation (4 hrs) & LC50: > 1 000 mg/l (rat)( 2-Phenoxyethanol) \\ Skin Contact & LD50: 2 250 mg/k (rabbit)( 2-Phenoxyethanol) \\ \end{tabular}$ 

 Skin corrosion/irritation
 Non-irritant.

 Serious eye damage/irritation
 Irritant

 Respiratory or skin sensitization
 Not sensitising

 Mutagenicity
 There is no evidence of mutagenic potential.

 Carcinogenicity
 IARC, NTP, OSHA, do not list this product or any components as a known or suspected carcinogen.

Reproductive toxicity No evidence of reproductive toxicity.

**STOT-single exposure** Inhalation: Irritation of the respiratory tract. Coughing.

Ingestion: May cause irritation of the gastrointestinal tract.

Headache, dizziness, nausea, vomiting,

STOT-repeated exposure (91 days) NOAEL (Oral)(rat) 700 mg/k/day ( 2-Phenoxyethanol)

Local anaesthetic effect on the lips, tongue and mucous

membranes

### 12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

(Fish) (96hrs) LC50: 220 - 460 mg/l (Golden Orfe)( 2-Phenoxyethanol)

 (Daphnia magna) (48hrs)
 EC50 > 500 mg/l ( 2-Phenoxyethanol)

 (Algae) (72hrs)
 EC50 : 443 - 625 mg/l (Desmodesmus sub.)

(2-Phenoxyethanol)

12.2 Persistence and degradability
 12.3 Bioaccumulative potential (96 hrs)
 Readily biodegradable at low concentrations.
 The product has no potential for bioaccumulation.

**12.4 Mobility in soil** This product is predicted to have very high mobility in soil.

12.5 Results of PBT and vPvB assessment Not classified as PBT or vPvB.

12.6 Other adverse effects

## 13. SECTION 13: DISPOSAL CONSIDERATIONS

**13.1** Waste treatment methods This material and must be disposed of as hazardous waste,

usually by incineration.

Consult an accredited waste disposal contractor or the local

authority for advice.

13.2 Additional Information

### 14. SECTION 14: TRANSPORT INFORMATION

14.1 Land transport (ADR/RID)

UN number Not classified according to the United Nations

'Recommendations on the Transport of Dangerous Goods'.

14.2 Sea transport (IMDG)

UN number Not classified according to the United Nations

'Recommendations on the Transport of Dangerous Goods'.

14.3 Air transport (ICAO/IATA)

UN number Not classified according to the United Nations

'Recommendations on the Transport of Dangerous Goods'.

### 15. SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental

regulations/legislation specific for the

substance or mixture

15.1.1 EU regulations

Authorisations and/or restrictions on use Cosmetics Directive 76/768/EEC

**15.1.2 National regulations** Cosmetic Products (Safety) Regulations 2008

15.2 Chemical Safety Assessment No Chemical Safety Assessment (CSA) has been carried

out

#### 16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: Sections #1 - #16.

#### **Abbreviations**

IARC International Agency for Research on Cancer

LTEL Long Term Exposure Limit

NOAEL No Observed Adverse Effect Level

NTP National Toxicology Program

OSHA Occupational Safety and Health Association

STEL Short Term Exposure Limit

STOT Specific target organ (systemic) toxicity

TWA Time-weighted average

#### References:

European Chemicals Agency
European Regulations and Directives
Organisation for Economic Cooperation and Development – Screening Information Dataset
Published chemical directories
Suppliers' safety and data sheets
UK Health and Safety Executive

#### **Risk Phrases**

R22: Harmful if swallowed.

R36: Irritating to eyes.

R41: Risk of serious damage to eyes.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### Safety Phrases

S2: Keep out of the reach of children.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37/39: Wear suitable gloves and eye/face protection.

#### Hazard statement(s)

H302: Harmful if swallowed.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H412: Harmful to aquatic life with long lasting effects.

#### Precautionary statement(s)

P102: Keep out of reach of children.

P243: Take precautionary measures against static discharge.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P264: Wash hands thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P302 + P352: IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P308 + P313: If exposed or concerned: Get medical advice/attention.

P330: Rinse mouth.

P337 + P313: If eye irritation persists: Get medical advice/attention.

P362: Take off contaminated clothing and wash before reuse.

P403 + P233: Store in a well-ventilated place. Keep container tightly closed.

P501: Dispose of contents/container to: licensed waste contractor

#### **Additional Information**

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. MADAR Corporation Limited gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. MADAR Corporation Limited accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.



# **Product Data Sheet**

## Plantaserve E

Chemical Description Biends of Friendsyethanor and Ethylnexyl Glycerin.	Chemical Description	Blends of Phenoxyethanol and Ethylhexyl Glycerin.
---	----------------------	---

Parameter	Unit	Specification
Appearance		Colourless to pale yellow viscous liquid
Phenol content	%	10.00 max.
Ethylhexyl Glycerin content	%	9.00 – 11.00
Phenoxyethanol	%	89.00 – 91.00

## Conforms to Pharmacopeia tests

#### **Additional Comment**

Plantaserve E is a blend of Phenoxyethanol and Ethylhexyl Glycerin is one of the most effective broad spectrum preservatives effective against bacteria, yeasts and mould fungi. Particularly useful for hair conditioners, sunscreens, shower gels, shampoos and bath gels. It has limited solubility with water but soluble in other polar solvents i.e. acetone, Glycol, propanol etc.

Dosage recommendation: 0.50 – 1.00 % Weight/Weight basis.

pH Stability: 3.00 – 12.00

Temperature Stability: Stable up to 80 °C

### **Storage & Transportation Comments**

When stored properly at room temperature Plantaserve E remains stable for at least 1 year.

The information on product specifications provided herein is only binding to the extent confirmed by Madar Corporation in a written Sales Agreement. Madar Corporation EXPRESSLY DISCLAIMS ANY RESPONSIBILITY FOR THE SUITABILITY OF THE PRODUCTS FOR ANY SPECIFIC OR PARTICULAR PURPOSES INTENDED BY THE USER. Suggestions for the use and application of the products and guide formulations are given for information purposes only and without commitment. Such suggestions do not release Madar Corporation customers from testing the products as to their suitability for the customer's intended processes and purposes. Madar Corporation does not assume any liability or risk involved in the use of its products as the conditions of use are beyond its control. The user of the products is solely responsible for compliance with all laws & regulations applying to the use of the products, including intellectual property rights of third parties.