



CERTIFICATE OF ANALYSIS

Product Name: Plantaserve E

Batch No: 4529301

Best Before End: January
2027

Test parameter	Unit	Specification	Result
Appearance		Colourless liquid, slightly viscous	Conforms
Colour	HAZEN	< 10	<5
Phenol Content	mg/kg	< 10	<10
Ethylheylglycerin Content	%	9.5 – 10.5	10.04
2-Phenoxyethanol Content	%	89.5 – 90.5	89.96



Allergen Statement

PLANTASERVE E

We Hereby declare that, product Plantaserve E INCI name: Phenoxyethanol, ethylhexylglycerin) is free of all allergens

16/09/2021



Animal Testing Statement

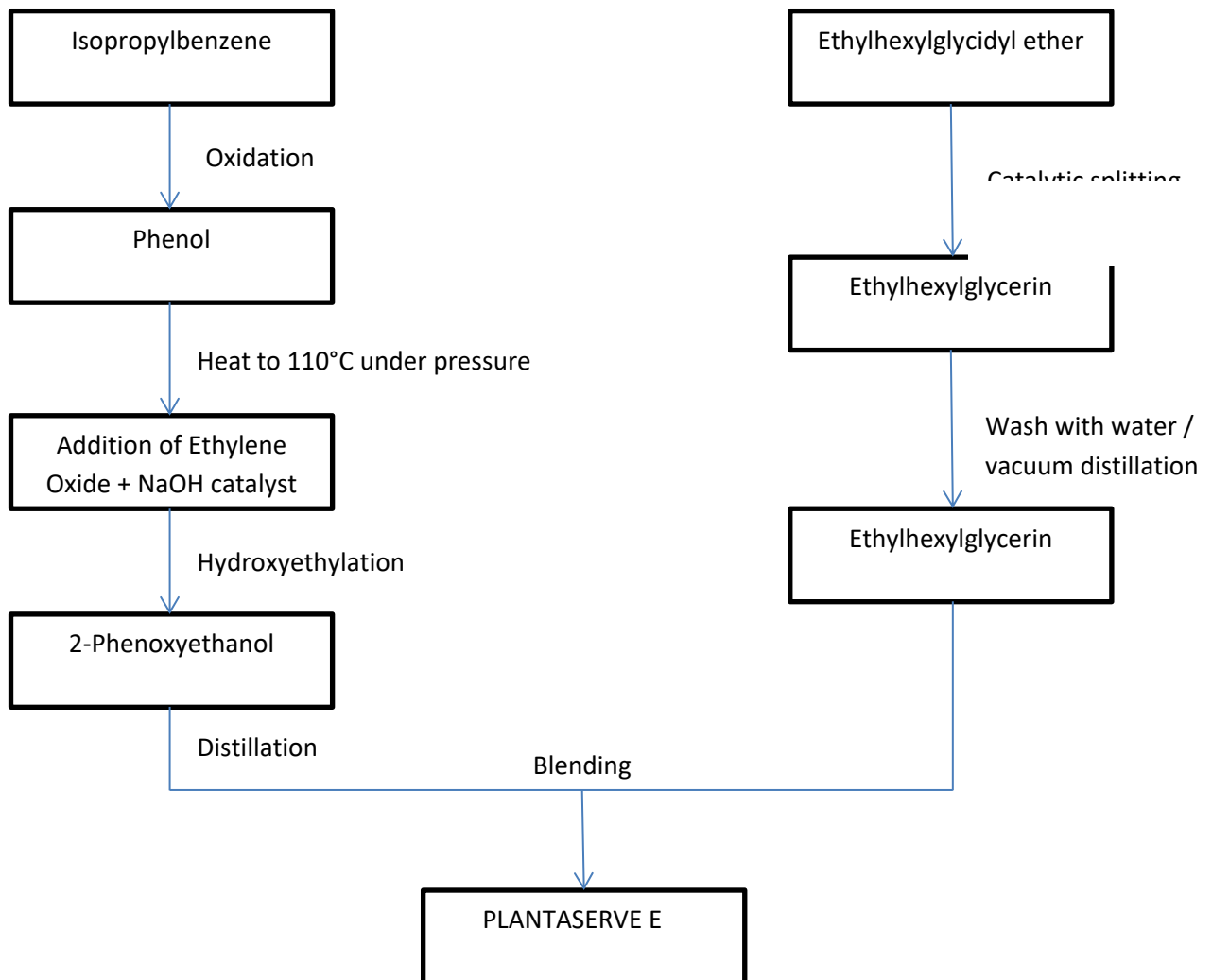
PLANTASERVE E

To Whom It May Concern:

To the best of our knowledge we can declare and certify that Plantaserve E (CAS No: 122-99-6) has never been tested on animals. Furthermore, no material used in the production has ever been the subject of animal testing.

15/01/2020

PRODUCTION FLOW CHART FOR PLANTASERVE E



SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

- Product Name: Plantaserve E
- Chemical Name: Mixture
- CAS Number: Mixture
- EC Number: Mixture
- REACH Registration Number:
- Synonyms:

1.2 Relevant identified uses of the substance or mixture and uses advised against

- Use of the substance/mixture: Preservative for cosmetics

1.3 Details of the supplier of the safety data sheet

Name of Supplier: Madar Corporation Limited
Address of Supplier: 19 - 20 Sandealth Industrial Estate
Fordingbridge
SP6 1PA

- Telephone: + 44 (0) 1425 655 555
- Responsible Person: Sarah Neave
- Email: technical@madarcorporation.co.uk

1.4 Emergency telephone number

24hr Emergency Telephone Number +44 (0) 1270 502891

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture**

- CLP:
- Classification according to EC Regulation Criteria 1272/2008 (CLP)
 - Eye Dam. 1
 - Acute Tox. 4

2.2 Label elements

- Signal Word: Danger

**GHS05****GHS07****2.2.1 Hazard statements**

H318 - Causes serious eye damage.

SECTION 2: Hazards identification (....)

H302 - Harmful if swallowed.

2.2.2 Precautionary statements

P264 - Wash hands thoroughly after handling.

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.

P310 - Immediately call a POISON CENTER or doctor/physician.

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

P301+P312 - IF SWALLOWED: Call a POISON CENTRE/doctor/ if you feel unwell.

P330 - Rinse mouth.

P501 - Dispose of contents/container to an authorised waste collection point

2.3 Other hazards

- None

SECTION 3: Composition/information on ingredients

3.1 Substances

3.2 Mixtures

3.2.1 2-Phenoxyethanol

CAS Number: 122-99-6
REACH Registration Number: 01-2119488943-21-XXXX
Content (%): 85 - 91
CLP classification: Acute Tox. 4, H302
Eye Irrit. 2, H319

Type [1]

3.2.2 3-(2-ethylhexyloxy)propane-1,2-diol

CAS Number: 70445-33-9
REACH Registration Number: 01-0000015745-65-XXXX
Content (%): 9 - 15
CLP classification: Eye Dam. 1, H318
Aquatic Chronic 3, H412

Type [1]

Type : [1] Constituent, [2] Impurity, [3] Stabilizing additive.

SECTION 4: First aid measures

4.1 Description of first aid measures

SECTION 4: First aid measures (....)

4.1.1 Contact with eyes

Flush eyes with plenty of water for at least 15 minutes. Consult a physician.

4.1.2 Contact with skin

Wash immediately with soap and plenty of water

In case of skin reactions, consult a physician

4.1.3 Ingestion

Never give anything by mouth to an unconscious person

Rinse mouth with water (only if the person is conscious)

Consult a doctor.

4.1.4 Inhalation

Move affected person to fresh air

If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

Consult a doctor if symptoms persist.

4.2 Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

4.3 Indication of any immediate medical attention and special treatment needed

- Treat symptomatically
-

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media: Water spray, dry powder, foam or CO₂
- Unsuitable extinguishing media: Full water jet (may release chemical into the environment and spread the fire).

5.2 Special hazards arising from the substance or mixture

- Thermal Decomposition: May liberate carbon oxides and other toxic gases or vapours

5.3 Advice for firefighters

- Wear self contained breathing apparatus.
-

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Avoid direct contact with the skin, eyes and clothing.
- Wear personal protection equipment

6.2 Environmental precautions

SECTION 6: Accidental release measures (....)

- Collect and dispose of spillage as indicated in Section 13
- Do not allow to enter into surface water or drains
- Do not allow to enter into soil/subsoil.

6.3 Methods and material for containment and cleaning up

- Ventilate.
- Dam and absorb spillages with earth, sand, or other absorbent material.
- Collect in closed containers for disposal
- Wash the spillage site with large amounts of water.

6.4 Reference to other sections

- See section 8 for information on appropriate personal protective equipment
 - See section 13 for additional waste treatment information
-

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin, eyes and clothing. Keep container tightly sealed. Provide appropriate exhaust ventilation in places where fumes are formed. Prevent formation of aerosols. Do not eat, drink or smoke in work areas. Remove contaminated clothing and protective equipment before entering eating/clean areas.

7.2 Conditions for safe storage, including any incompatibilities

- Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose.
- Store above 5°C
- Protect against direct sunlight.

7.3 Specific end use(s)

- See Section 1
-

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

- No exposure limits known for ingredient(s).

8.1.1 DNEL/DMEL

8.1.2 PNEC

8.2 Exposure controls



Gloves



Goggles



Respirator



Suit

SECTION 8: Exposure controls/personal protection (....)

Occupational exposure controls:

Provide appropriate exhaust ventilation at machinery and at places where fumes can be generated.

Use safety glasses with side shields (frame goggles) tested and approved under appropriate government standards such as EN 166 (EU) or NIOSH (US).

Handle with gloves. Suitable chemical resistant gloves should be used. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Wear appropriate protective clothing to prevent skin exposure.

Suitable face mask must be worn if exposed to vapour or aerosol.

8.3 Environmental exposure controls

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance: Liquid
- Colour: Clear
- Odour: Faint
- pH: Not determined
- Melting point/Range:
- Boiling Point/Range: Not determined
- Solubility in water: Moderately
- Freezing/Melting Point: Not determined
- Viscosity: Slightly viscous

9.2 Other information

- No additional information.
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SECTION 10: Stability and reactivity

10.1 Reactivity

- No decomposition if used and stored according to specifications
- No specific reactivity hazards associated with this product.

10.2 Chemical stability

- The product is stable under usual conditions.

10.3 Possibility of hazardous reactions

- No hazardous reactions when stored and handled according to instructions

10.4 Conditions to avoid

- Avoid exposures to direct sunlight and incompatible materials.

10.5 Incompatible materials

- Strong oxidising agents

10.6 Hazardous decomposition products

SECTION 10: Stability and reactivity (....)

- Thermal Decomposition: May liberate carbon oxides and other toxic gases/vapours.
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SECTION 11: Toxicological information

11.1 Information on toxicological effects

- No data available

11.2 Serious eye damage/irritation

2-Phenoxyethanol
Eyes - Rabbit - Result: Irritant (OECD 405)

11.3 Skin corrosion/irritation

2-phenoxyethanol

Skin - Rabbit - Non-Irritant (OECD 404)
Skin - Guinea Pig - Non-Sensitising (OECD 406)

Ethylhexylglycerin

Skin - Guinea Pig - Non-Sensitising (OECD 406)

11.4 Ingestion

- No data available

11.5 Inhalation

- No data available

11.6 Carcinogenicity

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

11.7 Germ cell mutagenicity

- No data available

11.8 Teratogenicity

- No data available
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SECTION 12: Ecological information

12.1 Toxicity

- No data available

12.2 Persistence and degradability

- No data available

12.3 Bioaccumulative potential

- No data available

SECTION 12: Ecological information (....)

12.4 Mobility in soil

- This product is moderately soluble in water.

12.5 Results of PBT and vPvB assessment

- PBT/vPvB assessment information is not available as chemical safety assessment not conducted

12.6 Other adverse effects

- No data available
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SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Avoid release to the environment. Refer to special instructions/Safety data sheets
 - Disposal should be in accordance with local, state or national legislation
 - Disposal of Product: Disposal must be made according to official regulations. Offer surplus and non-recyclable material to a licensed disposal company. Dissolve or mix the material with combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
 - Disposal of Packaging: Contaminated packaging that cannot be cleaned should be disposed of in the same manner as the contents.
 - Discharge into the environment must be avoided
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SECTION 14: Transport information

14.1 UN number or ID number

- UN No.: Not classified as hazardous for transport

14.2 UN proper shipping name

- Proper Shipping Name: Not classified as hazardous for transport

14.3 Transport hazard class(es)

- Hazard Class: Not classified as hazardous for transport

14.4 Packing group

- Packing Group: Not classified as hazardous for transport

14.5 Environmental hazards

- No information available

14.6 Special precautions for user

- No special precautions are required for this product

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

- Not applicable
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SECTION 15: Regulatory information

SECTION 15: Regulatory information (....)

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

15.2 Chemical safety assessment

- A chemical safety assessment has not been carried out.
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SECTION 16: Other information

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

--- end of safety datasheet ---



Product Specification

Plantaserve E

INCI: Phenoxyethanol, ethylhexylglycerin

Plantaserve E is a blend of phenoxyethanol with ethylhexylglycerin. Although primarily a skin conditioning agent, ethylhexylglycerin increases the preservative efficacy of phenoxyethanol, thus creating milder formulations by reducing the overall required preservative dosage.

Applications

- Shampoo & shower gel (rinse-off)
- Creams & lotions (leave-on)
- O/W emulsions
- W/O emulsions
- Wet wipes
- Lip care
- Product for Children under 3

Use scenarios derived from evaluation of Cosmetic Regulation guidelines and preservative performance for typical formulations.

Formulation Guidance

pH (effective range)	3 – 9
Solubility (water)	0.6%
Solubility (glycols)	Fully soluble
Maximum process temperature	80°C
General information	Primeguard PEHG is compatible with most personal care ingredients. In aqueous formulations, heating to 40°C may be required in order to fully dissolve the preservative.

In use concentrations	Recommendation	EU Cosmetic Regulation (Max)
Leave-on	0.5 – 1.0%	1.11%
Rinse-off	0.5 – 1.0%	1.11%

In use concentrations vary according to the formulation type and other ingredients present. The correct use dosage should be determined by microbial challenge testing of the finished formulations.

Minimum Inhibitory Concentrations

Microorganism	MIC (%)
Bacteria (gram-negative)	
Pseudomonas aeruginosa	0.40
Escherichia coli	0.40
Bacteria (gram-positive)	
Staphylococcus aureus	0.40
MRSA	0.40

Minimum Inhibitory Concentrations

Microorganism	MIC (%)
Yeasts	
Candida albicans	0.25
Candida famata	0.25
Moulds	
Aspergillus niger	0.25

Paraben Free	Thiazolinone Free	Formaldehyde Free	Preservative Free	Natural
Yes	Yes	Yes		



Product information file

PLANTASERVE E

INCI BREAKDOWN

Chemical name	CAS number	REACH Registration No.	Composition
Phenoxyethanol	122-99-6	01-2119488943-21-XXXX	90%
Ethylhexylglycerin	70445-33-9	01-0000015745-65-XXXX	10%

ANIMAL TESTING

Plantaserve E has not been tested on animals by the Manufacturer or Prime Surfactants Ltd. No animal testing has been commissioned by any party.

PALM CONTENT/RSPO STATUS

Derived from palm/palm kernel oil

NOT Derived from palm/palm kernel oil

RSPO Status: Not applicable

GMO

Plantaserve E is not derived from any material which contains genetically modified organisms (GMO)

CMRs

Plantaserve E does not contain any material classified as a "CMR" (Carcinogenic, Mutagenic, Toxic to Reproduction) according to Regulation (EC) No 1272/2008.

ORIGIN

Synthetic

COUNTRY OF ORIGIN

United Kingdom

VEGAN/VEGETARIAN

Plantaserve E does not contain any substances sourced from animal products and is therefore suitable for vegan and vegetarian applications.

06/05/2022