



Certificate of Analysis

Product: PEG-40 Hydrogenated Castor Oil

Batch Number: 4464102

Best Before End: MARCH 2025

Analysis Parameters	Type	Limit 1	Limit 2	Result
Acid Value (mg KOH/g)	<		1.0	0.80
Saponification No. (mg KOH/g)	R	50	60	54.5
Water content (%)	<		2.0	1.60
pH (10% aq)	R	6.0	7.0	6.80
Iodine Value (g I ₂ /100g)	<		1.0	0.3
Hydroxyl Value (mg KOH/g)	R	60	80	66.1

We confirm that this material conforms to the agreed specification. This certificate is computer generated and therefore does not require a signature.

Key

>: Greater than or equal to

<: Less than or equal to

=: Equals

R: Range

D: Date

T: Text

Product Data Record

Product Information

Product: PEG-40 Hydrogenated Castor Oil

EINECS: Polymer

Product Code: RMPEG40C

REACH Status: POLYMER

CAS Number: 61788-85-0

REACH Number: Exempt - polymer

INCI: PEG-40 Hydrogenated Castor Oil

Material Origin: VEGETABLE/PLANT, SYNTHETIC

Palm/Palm Kernel Oil Content:

Vegetable/Plant Used: Castor Oil

Certified Palm Details:

Regulatory

Has this product been tested on animals for cosmetic purposes any later than 2009:	No
Has this product been tested on animals for any other purpose:	Yes
Details of Animal Testing (if applicable):	Last Tested: 10/1978
Is the material vegetable or synthetically derived and as such not subject to EU legislation regarding TSE/BSE:	Yes
Does this product contain Residual Solvents:	No
Residual Solvent details (if applicable):	
Does the material contain Nanoparticles in accordance to Regulation (EC) 1223/2009?:	No
Does the material contain Allergens according to the Regulation (EC) 1223/2009?:	No
Does this product contain any Genetically Modified Organisms (GMO) and does it fall under the scope of the Regulation (EC) No 1829/2003 on Genetically Modified Food and Feed:	No
Is the material classified as a CMR (carcinogenic, mutagenic & toxic to reproduction substances) in accordance to EU Directive 67/548/EEC:	No
CMR details (if applicable):	Contains 1,4-Dioxane at 5 ppm and Ethylene Oxide at 1 ppm as impurities
The material contains the following heavy metals:	
Heavy Metal details (if applicable):	As, Cd, Co, Cr, Hg, Ni, Pb, Sb each < 1 ppm

Product Suitability

Does the material contain nut/nut products (excluding coconut)?:	No
Does the material contain animal derived ingredients?:	No
Does the material contain latex?:	No
Is the material suitable for vegetarians?:	Yes
Is the material Halal certified?:	Yes
This material is approved for use in:	EU, USA, CHINA, CANADA, AUSTRALIA
Does the material contain gluten?:	No
Does the material contain ethanol?:	No
Does the material contain shellfish?:	No
Is the material suitable for vegans?:	Yes
Is the material Kosher certified?:	Yes

The information used to create this document comes from our suppliers and is correct at the time of printing.

This documents and supplier's information will be checked and update annually.

We recommend you request a new PDR every 12 months.

Should MADAR be informed of a change to the information prior to the annual update, the document will be updated to reflect the change.

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Page 3 of 11



SAFETY DATA SHEET SURFACARE PGHC

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name Peg 40 Hydrogenated Castor Oil

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

Identified uses Solubilising agent

Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier Madar Corporation Limited
19 - 20 Sandleheath Industrial Estate
Fordingbridge
SP6 1PA
United Kingdom

+ 44 (0)1425 655555

Contact person technical@madarcorporation.co.uk

1.4. Emergency telephone number

Emergency telephone +44 (0) 1425 655 555

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

2.2. Label elements

Hazard statements NC Not Classified

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Peg 40 Hydrogenated Castor Oil

PEG-40 HYDROGENATED CASTOR OIL	> 90%
CAS number: 61788-85-0	
Classification	
Not Classified	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
Ingestion	Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.
Skin contact	Wash skin thoroughly with soap and water.
Eye contact	Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	Sore throat. Coughing, chest tightness, feeling of chest pressure.
Ingestion	Irritation.
Skin contact	May be slightly irritating to skin.
Eye contact	May be slightly irritating to eyes. Redness.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Alcohol-resistant foam. Carbon dioxide (CO ₂). Dry chemicals. Water spray.
Unsuitable extinguishing media	None known.

5.2. Special hazards arising from the substance or mixture

Specific hazards	Thermal decomposition or combustion products may include the following substances: Oxides of carbon.
Hazardous combustion products	Oxides of carbon.

5.3. Advice for firefighters

Protective actions during firefighting	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	For personal protection, see Section 8.
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6.2. Environmental precautions

Environmental precautions	Avoid discharge into drains and the aquatic environment.
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6.3. Methods and material for containment and cleaning up

For containment and clean up, see Section 8.

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Peg 40 Hydrogenated Castor Oil

Methods for cleaning up Absorb in vermiculite, dry sand or earth and place into containers.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. Collect and dispose of spillage as indicated in Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid handling which leads to dust formation. Eye wash facilities and emergency shower must be available when handling this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep container tightly closed, in a cool, well ventilated place. Keep only in the original container.

7.3. Specific end use(s)

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

8.2. Exposure controls

Appropriate engineering controls All handling should only take place in well-ventilated areas.

Eye/face protection Chemical splash goggles.

Hand protection It is recommended that gloves are made of the following material: Rubber (natural, latex). Chloroprene rubber. Nitrile rubber. Butyl rubber. Thickness: 0.4 - 1.0 mm The selected gloves should have a breakthrough time of at least 4 hours.

Other skin and body protection Wear protective clothing.

Hygiene measures Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Good personal hygiene procedures should be implemented.

Respiratory protection No specific recommendations.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Paste.
Colour	Colourless to pale yellow.
Odour	Characteristic.
Odour threshold	Not determined.
pH	pH (diluted solution): 6 - 7 (100 g/L)
Melting point	25 - 30°C
Initial boiling point and range	Not determined.
Flash point	> 100°C
Evaporation rate	Not determined.
Evaporation factor	Not determined.
Flammability (solid, gas)	Not available.

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Peg 40 Hydrogenated Castor Oil

Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	Not determined.
Vapour density	Not determined.
Relative density	Not available.
Bulk density	Not available.
Solubility(ies)	Soluble in water.
Partition coefficient	Not determined.
Auto-ignition temperature	Not determined.
Decomposition Temperature	Not determined.
Viscosity	Not determined.
Explosive properties	Not determined.
Oxidising properties	Not determined.

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.
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10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	No potentially hazardous reactions known.
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10.4. Conditions to avoid

Conditions to avoid	Avoid heat.
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10.5. Incompatible materials

Materials to avoid	None known.
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10.6. Hazardous decomposition products

Hazardous decomposition products	Oxides of carbon.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Skin corrosion/irritation

Skin corrosion/irritation	Not irritating.
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Serious eye damage/irritation

Serious eye damage/irritation	Not irritating.
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Respiratory sensitisation

Respiratory sensitisation	No information available.
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Skin sensitisation

Peg 40 Hydrogenated Castor Oil

Skin sensitisation No information available.

Germ cell mutagenicity

Genotoxicity - in vitro No information available.

Genotoxicity - in vivo No information available.

Carcinogenicity

Carcinogenicity No information available.

Reproductive toxicity

Reproductive toxicity - fertility No information available.

Reproductive toxicity - development No information available.

Specific target organ toxicity - single exposure

STOT - single exposure No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No information available.

Aspiration hazard

Aspiration hazard Not classified.

Inhalation Sore throat. Coughing, chest tightness, feeling of chest pressure.

Ingestion Irritation.

Skin contact May be slightly irritating to skin.

Eye contact May be slightly irritating to eyes. Redness.

Toxicological information on ingredients.

PEG-40 HYDROGENATED CASTOR OIL

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ > 20000 mg/kg, Oral, Rat

SECTION 12: Ecological information

12.1. Toxicity

Ecological information on ingredients.

PEG-40 HYDROGENATED CASTOR OIL

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 48 hours: > 10000 mg/l, Fish

12.2. Persistence and degradability

Persistence and degradability The product is readily biodegradable. (28 days, OECD 301 B: 80 - 90%)

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not determined.

12.4. Mobility in soil

Peg 40 Hydrogenated Castor Oil

Mobility Soluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Collect and place in suitable waste disposal containers and seal securely. Dispose of contents/container in accordance with regional regulations. Dispose of contents/container in accordance with national regulations.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user

Not applicable.

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

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

SECTION 15: Regulatory information

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

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision date 16/04/2021

Revision 1

SDS number 22981
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Page 9 of 11

Peg 40 Hydrogenated Castor Oil

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.



TECHNICAL SPECIFICATION

Product: PEG-40 HYDROGENATED CASTOR OIL

Date: 27/01/2020

Version: 4

Specification

Property	Units	Minimum	Maximum
Acid Value	mg KOH/g		1.0
Saponification No.	mg KOH/g	50	60
Hydroxyl Value	mg KOH/g	60	80
Water Content	%		2.0
pH (10% aq)		6.0	7.0
Iodine Value	gI ₂ /100g		1.0

Features & Benefits

This product is a mild, nonionic surfactant with an HLB of approx. 13. It is used as an oil and fragrance solubiliser and O/W emulsifier for skincare creams and rinse off formulations.

Typical Properties

Property	Units	Value
Appearance @ 25°C	-	Turbid paste
Solubility		Clearly soluble in water
Melting Point	°C	25.0 – 30.0

Handling & Storage

This product may crystallize or turn hazy during storage. This is reversible and has no effect on product quality. Prior to use, it is recommended to warm the product to 30-40°C and stir to ensure homogeneity.