



## Certificate of Analysis

**Product:** PEG-40 Hydrogenated Castor Oil

**Batch Number:** 4452208

**Best Before End:** November 2024

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

**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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## 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

<b>PEG-40 HYDROGENATED CASTOR OIL</b>	<b>&gt; 90%</b>
CAS number: 61788-85-0	
<b>Classification</b>	
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

<b>Inhalation</b>	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.
<b>Skin contact</b>	Wash skin thoroughly with soap and water.
<b>Eye contact</b>	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

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

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

<b>Notes for the doctor</b>	Treat symptomatically.
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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

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

#### 5.2. Special hazards arising from the substance or mixture

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

#### 5.3. Advice for firefighters

<b>Protective actions during firefighting</b>	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

<b>Personal precautions</b>	For personal protection, see Section 8.
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#### 6.2. Environmental precautions

<b>Environmental precautions</b>	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

<b>Appearance</b>	Paste.
<b>Colour</b>	Colourless to pale yellow.
<b>Odour</b>	Characteristic.
<b>Odour threshold</b>	Not determined.
<b>pH</b>	pH (diluted solution): 6 - 7 (100 g/L)
<b>Melting point</b>	25 - 30°C
<b>Initial boiling point and range</b>	Not determined.
<b>Flash point</b>	> 100°C
<b>Evaporation rate</b>	Not determined.
<b>Evaporation factor</b>	Not determined.
<b>Flammability (solid, gas)</b>	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 LD<sub>50</sub>)** LD<sub>50</sub> > 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** LC<sub>50</sub>, 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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## **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 <sub>2</sub> /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.