



## Certificate of Analysis

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

**Batch Number:** 4429401

**Best Before End:** April 2024

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	55.0
Water content (%)	<		2.0	1.60
pH (10% aq)	R	6.0	7.0	6.80
Iodine Value (g I <sub>2</sub> /100g)	<		1.0	0.7
Hydroxyl Value (mg KOH/g)	R	60	80	65.0

**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.



**SAFETY DATA SHEET**  
PEG-40 HYDROGENATED CASTOR OIL

**Compilation date:** 29/09/2010

**Revision date:** 19/04/2016

**Revision No:** 6

**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**

**Use of substance / mixture:** Solubilising agent.

**1.3. Details of the supplier of the safety data sheet**

**Company name:** MADAR Corporation Ltd  
19-20 Sandleheath Industrial Estate  
Fordingbridge  
Hampshire  
SP6 1PA

**Tel:** 01425 655555

**Email:** technical@madarcorporation.co.uk

**Approved Sellers:** Cosmetic Butters, Mystic Moments, New Directions, World of Moulds

**1.4. Emergency telephone number**

**Emergency tel:** -

**Section 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Classification under CLP:** This product has no classification under CLP.

**2.2. Label elements**

**Label elements:** This product has no label elements.

**2.3. Other hazards**

**Other hazards:** No data available.

**PBT:** This product is not identified as a PBT/vPvB substance.

**Section 3: Composition/information on ingredients**

**3.2. Mixtures**

## SAFETY DATA SHEET

### PEG-40 HYDROGENATED CASTOR OIL

#### Non-classified ingredients:

PEG-40 HYDROGENATED CASTOR OIL - REACH registered number(s): EXEMPT - POLYMER

EINECS	CAS	PBT / WEL	CLP Classification	Percent
-	61788-85-0	-	-	>90%

## Section 4: First aid measures

### 4.1. Description of first aid measures

**Skin contact:** Wash immediately with plenty of soap and water.

**Eye contact:** Bathe the eye with running water for 15 minutes.

**Ingestion:** Do not induce vomiting. Wash out mouth with water. Consult a doctor.

**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

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

**Skin contact:** There may be mild irritation at the site of contact.

**Eye contact:** There may be irritation and redness.

**Ingestion:** There may be irritation of the throat.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest.

**Delayed / immediate effects:** No data available.

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

**Immediate / special treatment:** Show this safety data sheet to the doctor in attendance.

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** Alcohol resistant foam. Carbon dioxide. Dry chemical powder. Water spray.

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

**Exposure hazards:** In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

### 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

## Section 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Refer to section 8 of SDS for personal protection details.

### 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers.

## SAFETY DATA SHEET

### PEG-40 HYDROGENATED CASTOR OIL

#### 6.3. Methods and material for containment and cleaning up

**Clean-up procedures:** Transfer to a closable, labelled salvage container for disposal by an appropriate method.

#### 6.4. Reference to other sections

**Reference to other sections:** Refer to section 8 of SDS. Refer to section 13 of SDS.

### Section 7: Handling and storage

#### 7.1. Precautions for safe handling

**Handling requirements:** Avoid the formation or spread of dust in the air.

#### 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions:** Store in a cool, well ventilated area.

**Suitable packaging:** Must only be kept in original packaging.

#### 7.3. Specific end use(s)

**Specific end use(s):** No data available.

### Section 8: Exposure controls/personal protection

#### 8.1. Control parameters

**Workplace exposure limits:** No data available.

#### DNEL/PNEC Values

**DNEL / PNEC** No data available.

#### 8.2. Exposure controls

**Engineering measures:** Ensure there is sufficient ventilation of the area.

**Respiratory protection:** Respiratory protective device with particle filter.

**Hand protection:** Protective gloves.

**Eye protection:** Safety glasses. Ensure eye bath is to hand.

**Skin protection:** Protective clothing.

**Environmental:** No special requirement.

### Section 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

**State:** Paste

**Colour:** Pale yellow

**Odour:** \* Characteristic odour

**Solubility in water:** Soluble

**Melting point/range°C:** 25 - 30

**pH:** 6 - 7 (100g/L)

**Flash point°C:** >100

## SAFETY DATA SHEET

### PEG-40 HYDROGENATED CASTOR OIL

#### 9.2. Other information

Other information: Not applicable.

### Section 10: Stability and reactivity

#### 10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

#### 10.2. Chemical stability

Chemical stability: Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.  
Decomposition may occur on exposure to conditions or materials listed below.

#### 10.4. Conditions to avoid

Conditions to avoid: Heat.

#### 10.5. Incompatible materials

Materials to avoid: No data available.

#### 10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

### Section 11: Toxicological information

#### 11.1. Information on toxicological effects

Hazardous ingredients:

PEG-40 HYDROGENATED CASTOR OIL

ORAL	RAT	LD50	>20,000	mg/kg
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Toxicity values: No data available.

#### Symptoms / routes of exposure

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be irritation of the throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: No data available.

Other information: Not applicable.

### Section 12: Ecological information

#### 12.1. Toxicity

Ecotoxicity values: No data available.

## SAFETY DATA SHEET

### PEG-40 HYDROGENATED CASTOR OIL

#### 12.2. Persistence and degradability

**Persistence and degradability:** Readily biodegradable.

#### 12.3. Bioaccumulative potential

**Bioaccumulative potential:** No data available.

#### 12.4. Mobility in soil

**Mobility:** Soluble in water.

#### 12.5. Results of PBT and vPvB assessment

**PBT identification:** This product is not identified as a PBT/vPvB substance.

#### 12.6. Other adverse effects

**Other adverse effects:** No data available.

### Section 13: Disposal considerations

#### 13.1. Waste treatment methods

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company.

**Recovery operations:** Not applicable.

**Disposal of packaging:** Dispose of as normal industrial waste.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

### Section 14: Transport information

**Transport class:** This product does not require a classification for transport.

### Section 15: Regulatory information

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

**Specific regulations:** Not applicable.

#### 15.2. Chemical Safety Assessment

**Chemical safety assessment:** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

### Section 16: Other information

#### Other information

**Other information:** This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

\* indicates text in the SDS which has changed since the last revision.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.



## 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	gI2/100g		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.