

Product
Batch No
Best Before End
Country of Origin

Jojoba American 4513305 July 2025 Uruguay

Physical and Chemical Characteristics

| parameter | unit | specification | result |
|--------------------------|-----------|----------------|----------------|
| acid value | mg KOH/g | max. 2,0 | 0,11 |
| peroxide value | meq O2/kg | max. 8,0 | 0.3 |
| refractive index (20 °C) | | ca. 1,466 | 1,4683 |
| relative density (20 °C) | | ca. 0,868 | 0,868 |
| colour (Gardner) | | | 8,3 |
| colour (Ph. Eur.) | | darker than G4 | darker than G4 |
| iodine value | g I2/100g | | 83.4* |
| saponification value | mg KOH/g | 90,0 - 98,0 | 98,6 |
| unsaponifiable matter | % | 45,0 - 55,0 | 45.5 |

Fatty Acid Composition (GC of FAMEs)

| parameter | unit | specification | result | |
|-----------------------|------|---------------|--------|--|
| 16:0 palmitic acid | % | max. 3,0 | 0,9 | |
| 16:1 palmitoleic acid | % | max. 1,0 | <0.1 | |
| 18:1 oleic acid | % | 5,0 - 15,0 | 10.6 | |
| 20:1 eicosenoic aicd | % | 65,0 - 80,0 | 71.4 | |
| 22:0 behenic acid | % | max. 1,0 | <0.1 | |
| 22:1 erucic acid | % | 10,0 - 20,0 | 15,5 | |
| 24:1 nervonic acid | % | max. 3,0 | 1,8 | |
| other fatty acids | % | max. 3,0 | <0.1 | |

^{*} Taken from the supplier's CoA (not accredited)

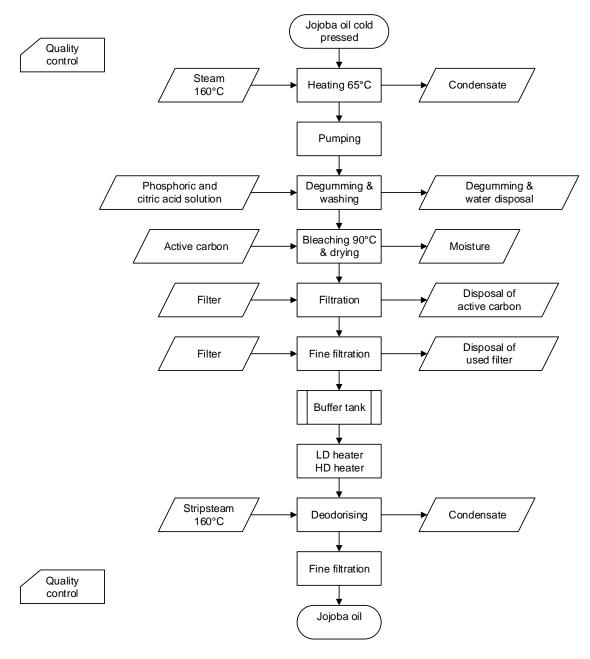
Evaluation: According to the results above, this jojoba oil virgin complies with the DAC.



11 March 2019

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Flowchart Jojoba oil



Art. No. 504031 Jojoba oil

This detailed process flow diagramm represent a typical process. The single steps can vary and it cannot be legally inferred that the articles sold under any circumstances originate from the process.



Product Dossier

Jojoba oil virgin

Description: Jojoba oil is the liquid wax obtained from the ripe seeds of Simmondsia chinensis (Link, Schneid.)

by expression without additional heating.

Ingredients: 100% Jojoba oil

Quality Level: Cosmetic, Pharma

INCI Name: Simmondsia Chinensis Seed oil

CAS No: 90045-98-0 [for Australia (AICS) 61789-91-1]

EINECS No: 289-964-3 Monograph: DAC

Properties: Clear, light yellow to yellow, oily liquid; characteristic odour. Below 10°C it solidifies to a soft

granular substance. It is insoluble in water and ethanol, miscible with ether and petroleum spirit. Because of its structure (liquid wax, composed of wax esters with a high molecular weight) jojoba

oil is not suitable for human consumption.

Listing status in different

countries:

Australia (AICS), Canada (DSL), China (IECSC), Europe (EINECS), Japan (CHRIP), Korea (NCIS), New Zealand (NZioC), Philippines (PICCS), USA

(TSCA), Taiwan (CSNN)

REACH: Exempt (Annex V, §9)

Manufacturer: Gustav Heess GmbH (for storage, QC and filling)

Site: Mollenbachstrasse 29, 71229 Leonberg, Germany

Main Countries of Origin Nuts: Argentina and Israel

Oil: Uruguay and Israel

Botanical Origin: Nuts of the Simmondsia chinensis plant. Plants are grown in plantations in

arid regions.

Parts used: nuts

Vegan: Suitable for vegan diet:

The product does not contain any animal derived ingredients or by-

products

The product is not manufactured using any animal derived ingredients,

processing aids or precursors

The manufacturer of the ingredients is appropriately separated from

manufacturer of any ingredients of animal origin

| Retest Date: | IBC 6 Months | Metal Drum 18 Months | Plastic Tin 12 Months | |
|------------------------|---|-------------------------------|-------------------------------------|--|
| Storage Conditions: | Dry, ambient storage (20°C +/- 5°C) under absence of direct sunlight and off-odours. Cool storage (10°C +/- 5°C) can significantly enhance quality preservation. Freezing should be avoided. | | | |
| Packaging: | IBC 900 kg Material HDPE | Drum 190 kg Crude Steel | Canisters 27 kg Material HDPE | |



Certified kosher:

100% vegetal, kosher-suitable but not certified

(if yes, product has to be ordered kosher!)

100% vegetal, Halal-suitable but not certified

Free from Alcohol:

Yes

Preservatives, antioxidants:

Jojoba oil is free from additives. A suitable antioxidant is only added on deliberate request and clearly marked on the cover sheet of the CoA.

Allergens: Due to the origin and the processing not to expect

Food allergens: Annex II of Reg. EU 1169/2011

| Allergen Data Sheet according to Directive 2011/1169/EC | ト Product ingredient | Remarks / details about the ingredient / origin and amount of cross contamination |
|---|----------------------|---|
| Cereals containing gluten (i.e. wheat, rye, barley, oats, spelt, kamut or their hybridised strains) and products thereof | N | |
| Crustaceans and products thereof | N | |
| Eggs and products thereof | N | |
| Fish and products thereof | N | |
| Peanuts and products thereof | N | |
| Soybeans and products thereof | N | |
| Milk and products thereof (including lactose) | N | |
| Nuts i. e. Almond (<i>Amygdalus communis</i> L.), Hazelnut (<i>Corylus avellana</i>), Walnut (<i>Juglans regia</i>), Cashew (<i>Anacardium occidentale</i>), Pecan nut (<i>Carya illinoiesis</i> (Wangenh.) K. Koch), Brazil nut (<i>Bertholletia excelsa</i>), Pistachio nut (<i>Pistacia vera</i>), Macadamia nut and Queensland nut (<i>Macadamia ternifolia</i>) and products thereof | N | |
| Celery and products thereof | N | |
| Mustard and products thereof | N | |
| Sesame seeds and products thereof | N | |
| Sulphur dioxide and sulphites at concentrations of more than 10 mg/kg or 10 mg/litre expressed as SO ₂ | N | |
| Lupin and products thereof | N | |
| Molluscs and products thereof | N | |

Cross contaminations: May also contain minimal traces of soy, peanut, sesame and nuts

Cosmetic Allergens: Oil is characterized by their typical organoleptic properties. These properties originate

from natural volatile components of the seeds or kernels passing into the pressed oil. The amount of the traces can vary, so that we cannot predict, whether they are

analytically accessible.

Cosmetic Reg. (EC) No. 1223/2009: Does not contain substances listed in Annex II to VI of the cosmetic legislation 1223/2009 and its amendments, in their latest consolidated version, as ingredients. Contaminations with forbidden/restricted substances are not expected but not

analyzed.

GMO: No labelling required according to Reg. (EC) No. 1829/2003 and 1830/2003



CMR: Jojoba oil does not contain toxic substances

Microbiological Limits: The oil is not heated during its manufacture. Due to the absence of moisture in the oil,

microorganisms cannot develop. Limits for microbiology cannot be specified.

Pesticides: Complies with maximum residual limits (MRL) for fats and oils set forth

• Attachments 1-3 to EU regulation 396/2005 for pesticides in its latest consolidated

version

PAH Limits according: Attachment to EU Reg.1881/2006 for other contaminants for food and

food ingredients on its latest consolidated version

Dioxins Limits according: Attachment to EU Reg.1881/2006 for other contaminants for food and

food ingredients on its latest consolidated version

Glycidyls Limits according: Attachment to EU Reg.1881/2006 for other contaminants for food and

food ingredients on its latest consolidated version

3-MCPD Limits according: Attachment to EU Reg.1881/2006 for other contaminants for food and

food ingredients on its latest consolidated version

Aflatoxins Limits according: Attachment to German Kontaminanten VO for Aflatoxins in its latest

consolidated version

Heavy Metals: Due to origin and manufacturing process not to expect, MRL according to annex to EU

Reg. 1881/2006 applies for Pb with <0,1ppm

Metal Catalysts: Produced without catalysts

Glycol Ether: Free of glycol ether

Trans-Fatty Acids: Trans Fatty Acid <2 %

Formaldehyde / Formaldehyde Releaser:

Novel Food:

Lactose, Gluten:

Free of formaldehyde or any type of formaldehyde releaser

•

Melamine: Free of melamine

Residual Solvent: Free of any residual solvent

VOC: Does not contain volatile organic compounds according to Directive 2004/42/EC as

non-food, EU Reg. 2015/2283 does not apply

product ingredient

Free of lactose or gluten

Nanotechnology: Not used and no nanomaterials added

Irradiation: Not treated with ionizing radiation

Animal Testing: Has not been tested on animals by Gustav Heess GmbH



BSE / TSE: The oil is of vegetable origin, no risk of BSE/TSE. The supply chain of vegetable oils &

fats is completely segregated from the supply of animal fat.

Nutritional Value: non-food, no nutritional value

In General:

All our products are traceable by our batch number which is allocated on every incoming batch. This unique batch number allows traceability to the original manufacturers' batches and the processing data.

7 November 2022

Automatically generated valid without signature



Product name: Jojoba oil

Updated: 24. January 2023 **Date of issue**: 25. August 2021

Version: g Previous version: f

Section 1: Identification of the substance and of the company

1.1 Product identifier: Jojoba oil virgin

1.2 Relevant identified uses of the substance and uses advised against

Sector of use

Cosmetic, Pharma

1.3 Supplier

Madar Corporation Limited 19 - 20 Sandleheath Indusrial Estate, Fordingbridge, SP6 1PA

Telephone 01425 655 555

E-mail address of person responsible for this SDS: E-Mail: technical@madarcorporation.co.uk

1.4 Emergency telephone number Mainz 01425 655 555

Section 2: Hazards identification

2.1 Classification of the substance

REACH Status: Exempted from compulsory Regulation according to Annex II No. 9 of Commission Regulation (EC) No. 987/2008 amending Regulation (EC) No 1907/2006 of REACH as regards Annexes IV and V.

Classification according to Regulation (EC) 1272/2008: Not classified.

Classification according to Directive 67/548/EWG: Not classified.

2.2 Label elements

Signal word: No signal word.

Hazard statements: No known significant effects or critical hazards.

2.3 Other hazards:

No.



Product name: Jojoba oil

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Section 3: Composition

3.1 Substance

Natural liquid wax.

CAS-No.: 90045-98-0 [for Australia (AICS) 61789-91-1]

EINECS-No.: 289-964-3 / -

INCI-Name: Simmondsia Chinensis Seed Oil

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Section 4: First aid measures

4.1 Description of first aid measures

Ingestion: Do not induce vomiting unless directed to do so by medical personnel. Get medical

attention if symptoms occur.

Inhalation: Fresh air. Get medical attention if symptoms occur.

Skin contact: Flush contaminated skin with plenty of water, wash with soap and rinse thoroughly.

Remove contaminated clothing and shoes.

Eye contact: Immediately flush eyes with plenty of water. Check for and remove any contact lenses.

Get medical attention if irritation occurs.

4.2 Most important symptoms and effects, both acute and delayed Potential acute health effects

Ingestion:
 Inhalation:
 Skin contact:
 Eye contact:
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

Over-exposure signs

Ingestion:No specific data.Inhalation:No specific data.Skin contact:No specific data.Eye contact:No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician: No specific data.

Specific treatment: No specific treatment.

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Foam, dry chemical powder or carbon dioxide

Unsuitable extinguishing media: Water with full jet.



Product name: Jojoba oil

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5.2 Special hazards arising from the substance

Avoid contact with oxidising agents. Combustion products: smoke, CO, CO₂. At high temperatures acrolein may be formed.

5.3 Advice for firefighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus with a full face-piece operated in positive pressure mode. Clothing for fire-fighters conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

The usual precautions for handling chemicals should be observed. Do not touch or walk through split material. Put on appropriate personal protective equipment.

6.2 Environmental precautions: Avoid dispersal of split material and runoff and contact with soil, waterways, drains and sewers.

6.3 Methods and materials for containment and cleaning up

Small spill: Stop leak if without risk. Move container from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill: Stop leak if without risk. Move container from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillage into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via licensed waste disposal contractor.

Section 7: Handling and storage

7.1 Precautions for safe handling Advice on general occupational hygiene

The usual precautions for handling chemicals should be observed.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage

Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.



Product name: Jojoba oil

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Section 8: Exposure controls/personal protection

8.1 Control parameters

Not applicable.

8.2 Exposure controls

Individual protection measures

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing.

Eye protection: safety eyewear.

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. >8 hours (breakthrough time): neoprene, nitrile, Viton®.

Skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Recommended: organic vapour filter.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: liquid

Colour: colourless to light yellow

Odour: faint

| | | <u>value / area</u> | Unit | |
|--|----------|---------------------|----------|--|
| Melting point/freezing point: Boiling point: | | < 6 – 7 > 398 | °C O° | |
| Bonning point. | | > 550 | O | |
| Flash point: | open cup | > 295 | °C | |
| Ignition point: Explosive properties: | | ca. 338 unknown | °C | |



Product name: Jojoba oil

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Danger of Explosion: product does not present an explosion hazard

Density: at 20 °C approx. 0,863 – 0,873 g/cm³

Solubility

in water: not miscible

9.2 Other information

No additional information.

Section 10: Stability and reactivity

10.1 Reactivity: No specific test data related to reactivity available for this product or its

ingredients.

10.2 Chemical stability: The product is stable.

10.3 Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions

will not occur.

10.4 Conditions to avoid: No specific data.

10.5 Incompatible materials: see section 7. Avoid contact with oxidising agents.

10.6. Hazardous decomposition products: smoke and irritating vapours when heated to decomposition. At

very high temperatures acrolein may be formed.

Section 11: Toxicological information

11.1 Information on toxicological effects

LD50 oral (male albino rats) > 21,5 mL/kg

Conclusion: Not available.

Irritation/Corrosion: No irritating effect.
Sensitization: Not available.

Carcinogenicity: No further relevant information available.

Specific target organ toxicity (single exposure): Not available. Specific target organ toxicity (repeated exposure): Not available.

Not classified as hazardous conform EEC Dangerous Substance Directive and Dangerous Preparation Directives. If the product is used properly it will not cause any injuries to health.

11.2 Information on other hazards

No additional information available



Product name: Jojoba oil

Updated: 24. January 2023 **Date of issue**: 25. August 2021

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Section 12: Ecological information

12.1 Toxicity

No data available.

12.2 Persistence and degradability

Product is biodegradable.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

PBT: No. vPvB: No.

12.6 Endocrine disrupting properties

No additional information available.

12.7 Other adverse effects:

No known significant effects or critical hazards.

Section 13: Disposal considerations

13.1 Waste treatment methods

Product:

Methods of disposal:

Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Packaging:

The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

EU-disposal code: 13 08 99 oil waste. Classification of waste is in end user's individual authority.

Section 14: Transport information

No hazardous goods according UN, IMO, ADR/RID und IATA/ICAO.



Product name: Jojoba oil

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Section 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance Other EU regulations National regulation

REACH Status: Exempted from compulsory Regulation according to Annex II No. 9 of Commission Regulation (EC) No. 987/2008 amending Regulation (EC) No 1907/2006 of REACH as regards Annexes IV and V.

Not classified as dangerous according to CLP Regulation (EC) No. 1272/2008. Not classified as dangerous according to Directive 67/548/EC or Directive 1999/45/EC.

Water hazard class: allgemein wassergefährdend (awg), VO AwSV, Anlage 1, Abs. 3

15.2 Chemical safety assessment

No chemical safety assessment has been carried out.

Section 16: Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



Printing Date: 9. June 2023

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Product / Trading-Name: Jojoba oil virgin

Description: Jojoba oil is the liquid wax obtained from the ripe seeds of Simmondsia chinensis (Link) Schneid.

(Buxaceae) by expression without additional heating. It may then be deodorized.

Product No.: 504023

Rev-No.:

CAS No.: 90045-98-0 [for Australia (AICS) / China (IECIC) 61789-91-1]

EINECS No.: 289-964-3

INCI Name: Simmondsia Chinensis Seed Oil

Properties: Clear, light yellow to yellow, oily liquid; characteristic odour. Below 10°C it solidifies to a soft

granular substance. It is insoluble in water and ethanol, miscible with ether and petroleum spirit. Because of its structure (liquid wax, composed of wax esters with a high molecular weight) jojoba

oil is not suitable for human consumption.

| Parameter | Method | Unit | Value |
|---------------------------------------|------------------|-----------|----------------|
| Physical and Chemical Characteristics | | | |
| acid value | Ph. Eur. [2.5.1] | mg KOH/g | max. 2,0 |
| peroxide value | Ph. Eur. [2.5.5] | meq O2/kg | max. 8,0 |
| refractive index (20 °C) | Ph. Eur. [2.2.6] | | ca. 1,466 |
| appearance | DAC | | complies with |
| relative density (20 °C) | Ph. Eur. [2.2.5] | | ca. 0,868 |
| colour (Ph. Eur.) | Ph. Eur. | | darker than G4 |
| saponification value | Ph. Eur. [2.5.6] | mg KOH/g | 90,0 - 98,0 |
| unsaponifiable matter | Ph. Eur. [2.5.7] | % | 45,0 - 55,0 |
| Fatty Acid Composition (GC of FAMEs) | | | |
| 16:0 palmitic acid | DAC | % | max. 3,0 |
| 16:1 palmitoleic acid | DAC | % | max. 1,0 |
| 18:1 oleic acid | DAC | % | 5,0 - 15,0 |
| 20:1 eicosenoic acid | DAC | % | 65,0 - 80,0 |
| 22:0 behenic acid | DAC | % | max. 1,0 |
| 22:1 erucic acid | DAC | % | 10,0 - 20,0 |
| 24:1 nervonic acid | DAC | % | max. 3,0 |
| other fatty acids | DAC | % | max. 3,0 |

Storage:

Keep in well closed, well filled containers or under inert gas, protect from light, cool and dry. Residual Solvents:

It complies with the guideline CHMP/ICH/82260/2006 (residual solvents)