

Certificate of Analysis

Product: Jojoba Refined

Batch: 4366102
Best Before End: July 2021

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

(Buxaceae) by expression without additional heating.

Product No.: 504023

CAS No.: 90045-98-0 [for Australia (AICS) 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℃ 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.

Physical and Chemical Characteristics

parameter	unit	specification	result	
acid value	mg KOH/g	max. 1,0	0,10	
peroxide value	meq O2/kg	max. 5,0	< 0,1	
refractive index (20 °C)		ca. 1,466	1,4664	
relative density (20 °C)		ca. 0,868	0,868	
colour (Gardner)			0,1	
colour (Ph. Eur.)		lighter than G4	lighter than G4	
alkaline impurities		complies with	complies with	
iodine value	g I2/100g		82,9 *	
saponification value	mg KOH/g	90,0 - 98,0	95,9	
unsaponifiable matter	%	45,0 - 55,0	49,3	

Fatty Acid Composition (GC of FAMEs)

unit	specification	result	
%	max. 3,0	1,2	
%	max. 1,0	0,3	
%	5,0 - 15,0	11,2	
%	65,0 - 80,0	69,7	
%	max. 1,0	0,2	
%	10,0 - 20,0	14,5	
%	max. 3,0	1,7	
%	max. 3,0	1,2	
	% % % % %	% max. 3,0 % max. 1,0 % 5,0 - 15,0 % 65,0 - 80,0 % max. 1,0 % 10,0 - 20,0 % max. 3,0	% max. 3,0 1,2 % max. 1,0 0,3 % 5,0 - 15,0 11,2 % 65,0 - 80,0 69,7 % max. 1,0 0,2 % 10,0 - 20,0 14,5 % max. 3,0 1,7

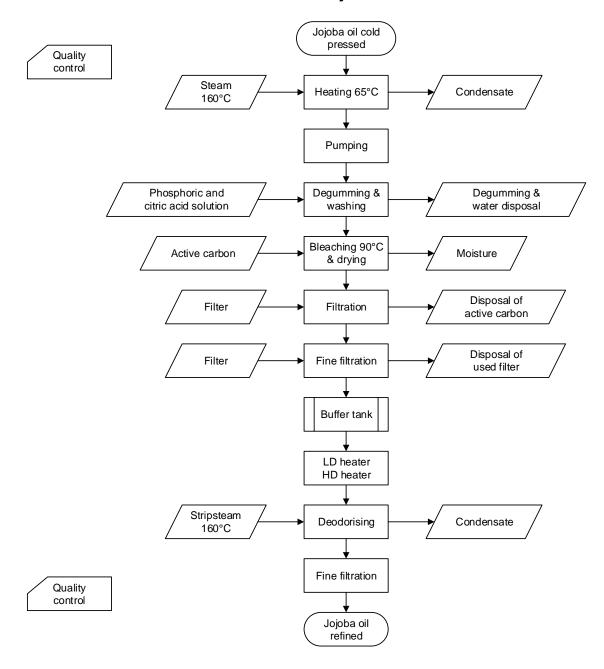
Taken from the supplier's CoA (not accredited)

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



11 March 2019

Flowchart Jojoba oil refined



This detailed process flow diagram 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.



Information Sheet

Jojoba oil (Jojoba wax) refined

Herewith we certify to the best of our knowledge, based on information provided by our suppliers and based on knowledge of used raw materials and applied production processes

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

Schneid. (Buxaceae) by expression without additional heating. It is then refined.

Ingredients: 100% Jojoba oilQuality 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: Confidential
Site: Germany

Main Countries of Origin Nuts: Argentina and Israel

Oil: Uruguay, Argentinia and Israel

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

arid regions.

Parts used: nuts

Vegan: suitable for a vegan lifestyle – absence of ingredients or processing aids of

animal origin.

Retest Date:	IBC 6 Months	Metal Drum 18 Months	Plastic Tin 6 Months	
Storage Conditions:			sence of direct sunlight enhance quality preserv	and off-odours. ation. Freezing should be
Packaging:	IBC 900 kg Material HDPF	Drum 190 kg Crude Steel	Canisters 27 kg Material HDPF	



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	Froduct 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 (Amygdalus communis L.), Hazelnut (Corylus avellana), Walnut (Juglans regia), Cashew (Anacardium occidentale), Pecan nut (Carya illinoiesis (Wangenh.) K. Koch), Brazil nut (Bertholletia excelsa), Pistachio nut (Pistacia vera), Macadamia nut and Queensland nut (Macadamia ternifolia) 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 SO2."	N	
Lupin and products thereof	N	
Molluscs and products thereof	N	

Cross contaminations: Not expected

Cosmetic Allergens Does not contain substances classified as sensitizers according to the Reg. (EC)

No. 1223/2009 annex III

Cosmetics Reg. (EC) Does not contain substances listed in Annex II to VI of the cosmetic legislation

1223/2009 and its amendments 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: Jojoba oil is a refined oil produced with a heating step. Any microorganisms

should be inactivated. Due to the absence of moisture in the oil, microorganisms

cannot develop.

Total viable count (TVC): <1000cfu/g No pathogenic microorganisms

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

Reg. (EU) 396/2005 for pesticides

Attachment to EU Reg.1881/2006 for other contaminants except

Section 4

Attachment to German Kontaminanten VO for Aflatoxins

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

Phthalates: Free of phthalates

Glycol Ether: Free of glycol ether

Trans-Fatty Acids: n.a., because non-food

Formaldehyde / Formaldehyde

Releaser:

Free of formaldehyde or any type of formaldehyde releaser

Lactose, Gluten: Free of lactose or gluten

Melamine: Free of melamine

Novel Food: EU Reg. 2015/2283 does not apply

Residual Solvent: Free of any residual solvent

VOC: Does not contain volatile organic compounds with respect to Directive

2009/32/EC. The risk of VOC as contamination is neglectable. After the

deodorization step at 180 °C - 250 °C with strip steam, such traces are removed

from the oil

Nanotechnology: Not used and no nanomaterials added

Irradiation: Not treated with ionizing radiation

Animal Testing: Has not been tested on animals by us or our supplier

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

oil is completely segregated from the supply of animal fat.

Nutritional Value: non-food, so 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.



Product name: Jojoba oil

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Section 1: Identification of the substance and of the company

1.1 Product identifier: Jojoba Refined Oil

1.2 Relevant identified uses of the substance and uses advised against

Sector of use Cosmetic, Pharma

1.3 Supplier MADAR Corporation

19-20 Sandleheath industrial Estate, Fordingbrdge, Hampshire SP6 1PA

Telephone 01425 655555

Email sales@madarcorporation.co.uk

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

1.4 Emergency telephone number

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.



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Section 3: Composition

3.1 Substance

Natural liquid wax.

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



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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.

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.



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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.

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.



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Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: liauid

Colour: golden yellow

Odour: faint

value / area Unit Melting point/freezing point: < 6 - 7°C °C **Boiling point:** > 398 Flash point: > 295 °C open cup °C **Ignition point:** ca. 338 unknown

Explosive properties:

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.



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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.

No further relevant information available. Carcinogenicity:

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.

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 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



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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.

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

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.



Product - Specification

Rev-No.: b

Product / Trading-Name: Jojoba oil (Jojoba wax) refined

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

(Buxaceae) by expression without additional heating. It is then refined.

Because of its structure (liquid wax, composed of wax esters with a high molecular weight) jojoba

oil is not suitable for human consumption.

Product No.: 504031

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

EINECS No.: 289-964-3

INCI Name: Simmondsia Chinensis Seed Oil

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

granular substance. It is insoluble in water and ethanol, miscible with ether and petroleum spirit.

Parameter	Method	Unit	Value
Physical and Chemical Characterist	<u>tics</u>		
acid value	Ph. Eur. [2.5.1]	mg KOH/g	max. 1,0
peroxide value	Ph. Eur. [2.5.5]	meq O2/kg	max. 5,0
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.		lighter than G4
alkaline impurities	DAC		complies with
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 FAM	I <u>Es)</u>		
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 aicd	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 CPMP/ICH/283/95 and CPMP/ICH/1940/00 corr. (residual solvents)

Date: 16.11.12