



MATERIAL DATA SAFETY SHEET: Safflower Oil
Version: 1.0 Issued: 27th March 2018
earthYard Pty Ltd : ABN 66 603 706 832

MATERIAL SAFETY DATA SHEET

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NOT HAZARDOUS ACCORDING TO WORKSAFE CRITERIA

SECTION 1 - MATERIAL & SUPPLY COMPANY IDENTIFICATION

Product Name: Safflower Oil
Botanical Name: *Carthamus tinctorius*
Recommended Use: Cosmetic and aromatherapy ingredient.
Supplier: EarthYard Pty Ltd
ABN: 66 603 706 832
Address: 2/1-3 Sommerville Circuit, Emu Plains NSW 2750
Telephone: 02 4735 5379
Email: enquires@earthyard.com.au
Emergency Telephone: 02 4735 5379 (Office Hours 9.00am - 5.00pm Mon-Fri)

SECTION 2 - PRODUCT COMPOSITION

Component Entity	CAS Number	EINECS Number
Safflower Oil	8001-23-8	232-276-5
Proportions [%w/w]		100% pure

SECTION 3 - HAZARD IDENTIFICATION

3.1 Physical - Chemical Hazards

Explosion: None identified.
Flammable: Combustible liquid, produces oxides of carbon when burning.
Oxidizing: Not applicable.
Toxic: None identified.
Radioactive: Not applicable.
Corrosive: None identified.
Miscellaneous: None identified.

3.2 Environmental Hazards: None identified.

3.3 Health Hazards

Acute Effects: Swallowed: **Maybe** Harmful, May cause abdominal pain
Excessive ingestion can cause gastric distree.
Eye: May be irritating.
Skin: Non irritating or sensitising.
Inhalation: May be harmful.
Chronic Effects: None identified.
Mutagenic Effects: None identified.
Reproductive Effects: None identified.
Carcinogenic Effects: None identified.
Sensitisation: None identified.
Infectious: Not applicable.

SECTION 4 - FIRST AID

4.1 Eye Contact: Flush immediately with clean water for at least 15 minutes. Ensure irrigation

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- under eyelids. Do not try to remove contact lenses unless trained. Contact a physician immediately.
- 4.2 Skin Contact:** Remove any contaminated clothing and footwear. Clean before re-use. Wash affected areas thoroughly with soap and water for at least 15 minutes. Contact a physician as necessary.
- 4.3 Inhalation:** Remove from the exposure to fresh air. If breathing has stopped, administer artificial respiration and oxygen if available. Contact a physician as necessary.

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SECTION 4 - FIRST AID (Continued)

- 4.4 Ingestion:** Do Not induce vomiting. Wash out mouth with water and give water slowly to dilute [as much as casualty can comfortably drink] provided person is conscious. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Contact a physician or local poison control centre immediately. If vomiting occurs, lean patient forward or place on left side [head-down position, if possible] to maintain open airway and prevent aspiration.
- 4.5 Contact Point:** Poisons Information Centre Sydney [T] 131126
- 4.6 Advice to Doctor:** Treat symptomatically. Note the nature of this product.

SECTION 5 - FIRE FIGHTING MEASURES

- 5.1 Extinguishing Media:** Carbon Dioxide; Dry Chemical; Universal-Type Foam.
- 5.2 Unsuitable Extinguishing Media:** Water Spray; Others not established.
- 5.3 Unusual Firefighting Hazards:** None identified.
- 5.4 Special Procedures:** Determine the need to evacuate or isolate the area according to your local emergency plan.
- 5.5 Protective Equipment:** Self-contained breathing apparatus and protective clothing should be worn when fighting fires involving essential oils or chemicals.
- 5.6 Combustion Products:** Oxides of carbon.
- 5.7 Contact Point:** Dial 000 Emergency in case of fire [In Australia] or Local Emergency Authority [Out of Australia].

SECTION 6 - ACCIDENTAL RELEASE MEASURES

- 6.1 Personal Precautions:** Use of self-contained breathing apparatus is recommended for any major chemical spill. Refer also to section 8.
- 6.2 Safety Precautions:** Eliminate ALL ignition sources. Ventilate area. Determine the need to evacuate or isolate the area according to your local emergency plan;
- 6.3 Environmental Precautions:** Keep away from drains, surface and ground water. Report spills to appropriate Authorities if required.



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6.4 Methods For Cleaning Up: Contain spill and recover free product. Absorb remainder on vermiculite or other suitable absorbent material. Wipe small spills with cloth. Clean with hot water and detergent. Refer also to Section 13. for disposal procedures.

SECTION 7 - SAFE HANDLING AND STORAGE INFORMATION

7.1 Handling: Avoid inhalation and contact with skin and eyes. Good personal hygiene practices should be used. Wash after any contact, before breaks and meals, and at the end of the work period. Contaminated clothing and shoes should be cleaned before re-use.

7.2 Storage: Not a hazardous material. Not a Scheduled Poison. Containers should be kept closed in order to minimise contamination. Store in a cool, dry, well ventilated place protected from light. Keep from extreme heat and away from ALL sources of ignition. Make sure the material does not come into contact with substances listed as: "Materials to Avoid", Refer to Section 10.

7.3 Unsuitable Packaging Materials: None established.

7.4 Special Procedures: None established.

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SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Respiratory Protection: None generally required. Use NIOSH approved respirator in confined areas or if ventilation is inadequate.

8.2 Ventilation Protection: Ensure adequate ventilation to keep exposure levels to a minimum.

Local exhaust meeting ACGIH criteria is required. General exhaust is recommended.

8.3 Eye Protection: Using goggles or face shield is recommended.

8.4 Protective Gloves: Using chemical resistant gloves is recommended.

8.5 Protective Clothing: Using chemical resistant clothing is recommended.

8.6 Protective Equipment: An eyewash fountain and / or safety shower should be available in the work area.

8.7 Special Engineering Controls: None established.

8.8 Other Personal Protection: Consult the following Australian Standards for general advice regarding safety clothing and equipment: Respiratory Equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Industrial Clothing: **AS 2919**, Industrial Eye Protection: **AS 1336** and **AS/NZS 1337**,



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8.9 Note: Occupational Protective Footwear: **AS/NZS 2210**.
 These precautions are for room temperature handling. Use at elevated temperature or aerosol / spray applications may require additional precautions.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

TEST	SPECIFICATION
9.1 Appearance:	Pale yellow to yellow, oily liquid
9.2 Odour:	Characteristic
Odour Threshold:	Not available.
9.3 Specific Gravity:	0.880 to 0.930 @ 20°C
9.4 Refractive Index:	1.463 to 1.4760 @ 20°C
9.5 Optical Rotation:	Not available
9.6 pH:	Not available.
9.7 Solubility:	Soluble in vegetable oils.
9.8 Solubility in Water:	Insoluble.
9.9 Flash Point:	<100°C [Closed Cup]
9.10 Flammability Limits [as % v/v in Air]	Lower Explosion Limit: Not available. Upper Explosion Limit: Not available.
9.11 Autoignition Temperature:	Not available.
9.12 Melting Point:	Not available [°C @ 760 mm].
9.13 Boiling Point:	Not available [°C @ 760 mm].
9.14 Vapour Pressure:	Not available [mm Hg].
9.15 Vapour Density:	Not available.
9.16 SCCNFP Allergens Annex III – Cosmetic Directive 2003/15/EC [7th amendment]. Detection Limit 0.001%.	

No allergens or sensitisers detected					
CONSTITUENT	IFRA	EFFA	CAS Number	EINECS Number	RANGE
Amyl Cinnamal:	YES	NO	122-40-7	204-541-5	Not Detected
Amyl Cinnamyl Alc:	YES	NO	101-85-9	202-982-8	Not Detected
Anisyl Alcohol:	NO	YES	1331-81-3	215-561-9	Not Detected
Benzyl Alcohol:	NO	YES	100-51-6	202-859-9	Not Detected
Benzyl Benzoate:		NO	YES 120-51-4	204-402-9	Not Detected
Benzyl Cinnamate:	NO	YES	103-41-3	203-109-3	Not Detected
Benzyl Salicylate:		NO	YES 118-58-1	204-262-9	Not Detected
Cinnamal:	YES	YES	104-55-2	203-213-9	Not Detected
Cinnamyl Alcohol:	YES	YES	104-54-1	203-212-3	Not Detected
Citral:	YES	YES	5392-40-5	226-394-6	Not Detected
Citronellol:	NO	YES	106-22-9	203-375-0	Not Detected
Coumarin:	NO	YES	91-64-5	Not allocated	Not Detected
Eugenol:	YES	YES	97-53-0	202-589-1	Not Detected

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9.16 SCCNFP Allergens Annex III – Cosmetic Directive 2003/15/EC [7th amendment]. Detection Limit 0.001%.

No allergens or sensitisers detected (Cont.)

CONSTITUENT	IFRA	EFFA	CAS Number	EINECS Number	RANGE
Farnesol:	YES	YES	4602-84-0	225-004-1	Not Detected
Geraniol:	NO	YES	106-24-1	203-377-1	Not Detected
Hexyl Cinnamal: Detected		YES	NO 101-86-0		202-983-3 Not
Citronellal Hydrate:	YES	NO	107-75-5	203-518-7	Not Detected
iso-Eugenol:	YES	YES	97-54-1	202-590-7	Not Detected
Lilial:	YES	NO	80-54-6	201-289-8	Not Detected
Limonene:	YES	YES	5989-27-5	227-813-5	Not Detected
Linalool:		YES	YES 78-70-6	201-134-4	Not Detected
Lyrall	NO	NO	31906-04-4	250-863-4	Not Detected
Methylheptin Carbonate: Detected		YES	NO 111-12-6		203-836-6 Not
Methyl Ionone:	YES	NO	127-51-5	204-846-3	Not Detected
Oakmoss:	YES	NO	90028-68-5	289-861-3	Not Detected
Treemoss:	YES	NO	90028-67-4	289-860-8	Not Detected

9.17 Additional EFFA Listed Sensitisers & IFRA Notifiable Substances. Detection Limit 0.01%.

CONSTITUENT	IFRA	EFFA	CAS Number	EINECS	Number
RANGE					
No Additional Sensitisers Detected		NO	NO	Not allocated	Not allocated Not
No Additional Notifiable Substances Detected		NO	NO	Not allocated	Not allocated Not

SECTION 10 - STABILITY AND REACTIVITY

- 10.1 Stability:** Chemically stable, hazardous material.
This material presents no significant reactivity hazard.
- 10.2 Conditions to Avoid:** None established.
- 10.3 Materials to Avoid:** Strong acids, strong alkalis and oxidizing agents.
- 10.4 Flammability:** Flammable liquid.
- 10.5 Hazardous Polymerization:** Will not occur.
- 10.6 Hazardous Combustion or Decomposition Products:** Carbon monoxide and unidentified organic compounds may be formed during combustion.

SECTION 11 - TOXICOLOGICAL INFORMATION

- 11.1 Acute Toxicity**
- LD50 [Oral]:** Not tested on animals – So not available.
- LD50 [Dermal]:** Not tested on animals – So not available.
- LC50 [Inhalation]:** Not tested on animals – So not available.
- 11.2 Exposure Limits** There is a blanket recommendation of 10 mg/m³ for inspirable dusts or mists when limits have not otherwise been established.
- OSHA TWA:** None established.



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OSHA STEL: None established.
ACGIH TWA: None established.
ACGIH STEL: None established.
NOHSC TWA: None established.
NOHSC STEL: None established.
11.3 Short Term Toxicity: Not available.
11.4 Long Term Toxicity: Not available.
11.5 Human Exposure Tests: Not available

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SECTION 12 - ECOLOGICAL INFORMATION

12.1 Eco-toxicity: None established. Avoid pollution to soil, rivers and the ocean.
12.2 Mobility: Low mobility in the soil.
12.3 Persistence & Degradability: Low persistence level and readily biodegradable.
12.4 Bio-accumulative Potential: None established.
12.5 Other Adverse Effects: None established.

SECTION 13 - DISPOSAL CONSIDERATION

13.1 Waste Material: Place material and / or absorbent into sealed containers and dispose of in accordance with current applicable laws and regulations.
13.2 Contaminated Packaging: Refer to local Authority advice. Dispose of in accordance with current applicable laws and regulations. Refer to local Authority advice.
13.3 Note: Empty containers can have residues, gases and mists. Use the proper Waste Disposal Methods & Procedures for Empties as well.

SECTION 14 - TRANSPORT INFORMATION

14.1 Transportation: Not Dangerous Goods according to criteria of the Australian Dangerous Goods Code for Transport by Air Road and Rail. No special transport required.
14.2 UN Number: Not allocated.
14.3 Packaging Group: Not allocated.
14.4 DG Class: Not allocated.
14.5 Poison Schedule: Not Scheduled.
14.6 Hazchem Code: Not allocated.

SECTION 15 - REGULATORY INFORMATION

15.1 Risk Symbols: Not allocated.
15.2 Risk Phrases: Not allocated.
15.3 Safety Phrases: Not allocated.

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- 15.4 Warning Statements:** Not allocated.
15.5 Safety Directions: Not allocated.
15.6 Standard Statements: Not allocated

SECTION 16 - ADDITIONAL INFORMATION

16.1 Revision Date: 14th June 2016

16.2 Disclaimer

This Material Safety Data Sheet was prepared according to:
The National Code of Practice for the Preparation of Material Safety Data Sheets [NOHSC:2011 (2003)].
The information contained in this Material Safety Data Sheet is obtained from current and reliable sources.
Native Oils Australia provides the information contained herein in good faith but makes no representation as to
its comprehensiveness or accuracy. This Material Safety Data Sheet summarises our best current
knowledge of the
health and safety hazard information of the product, but does not claim to be all inclusive. This document is
thus,
intended only as a guide to the appropriate precautionary handling of the material by properly trained
personnel using
this product. Individuals receiving this information must exercise their independent judgment in determining
its
appropriateness for a particular purpose. As the ordinary or otherwise use(s) of this product is outside the
control of
Native Oils Australia., no representation or warranty, expressed or implied, is made as to the effect(s) of
such use(s), (including damage or injury), or the results obtained. Native Oils Australia expressly
disclaims responsibility as to the ordinary or otherwise use(s). Furthermore, nothing contained herein should
be
considered as a recommendation by Native Oils Australia as to the fitness for any use. The liability of

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16.2 Disclaimer (continued)

Native Oils Australia is limited to the value of the goods and does not include any consequential loss.
Native Oils Australia shall not be liable for any errors or delays in the content, or for any actions taken in
reliance thereon. Native Oils Australia shall not be responsible for any damages resulting from use of or
reliance upon this information. The user of the product is solely responsible for compliance with all laws and
regulations applying to the use of the products, including intellectual property rights of third parties.

Manufacturers Statement:

Essential oils (Eos) are complex, naturally derived chemicals. Often the constituents of the EOs may
individually have known risks and hazards, and in some cases the constituents have not been studied, often
because there have been no complaints.
Used as directed and within the limits specified by the various agencies and associations that study these
materials, essential oils are safe and useful ingredients in flavours, fragrances, cosmetics and therapeutic
applications. Please refer to the guidelines of the industry in which the product will be offered to the public to

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abide by the safest known practices. Those organizations include: IFRA, IFEAT, AHPA, ISO Standards for Essential Oils, and publications by various government health organizations regarding the use of these materials.