

SAFETY DATA SHEET — 16 Sections

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier BINDA BOTANICALS – TRADITIONAL SUNSCREEN FIRST NATIONS AUSTRALIAN SPF 50 VEGAN ORGANIC		EAN/AUST L -
Product Use Sunscreen	Manufacturer's Name VeganicSKN Pty Ltd	
Street Address 243 Milton Road, Milton, 4064	Emergency Phone Number 13 11 26 (Poisons Information Centre Australia)	
Date SDS Made 19 th January 2023	SDS Made By Sharmistha Muralidharan	
Date SDS Updated 29 th November 2023	SDS Updated By Elena Scaglia	

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS No.	Proportion (%w/w)
Non-nano zinc oxide	1314-13-2	25.0
Other ingredients determined not to be hazardous	n/a	75.0

Maximum concentration (C) in %	Dermal Absorption %	Reference	SED = Eproduct x C/100 x Dap/100	LD ₅₀	LC ₅₀	NOAEL	NOAEL (mg/kg bw/day)	Margin of Safety MoS= NOAEL/ SED	Reference
1. 25% Zinc Oxide - CAS # 1314-13-2									
25.00	0.36	(Pirof F, 1996)	0.27	> 2000 mg/kg bw (Rat - Dermal)	> 5.7 mg/L/4 hrs (Rat)	268.4 mg/kg/day (Rat - Oral)	268.4	994.07407	(ECHA, n.d.-i; Kim, 2017)
2. Sunflower Seed Oil - CAS # 8001-21-6									
	1.5	(ECHA, n.d.-c)	0.6	> 2000 mg/kg bw (Rat - Dermal)	> 0.162 mg/L/air (Rat)	1000 mg/kg bw/day (Rat)	1000	666.6667	(ECHA, n.d.-c)
3. Jojoba Seed Oil - CAS # 90045-98-0									
	10.00	Default Dap for oils	3	>= 5000 mg/kg bw (Rat - Oral)	No data	>= 500 mg/kg bw (Guinea pigs)	500	166.6667	(ECHA, n.d.-e)

4. Thuja Plicata Extract - CAS # 499-44-5									
	5.00	(BasicMedical Key, n.d.)	0.015	500 mg/kg bw (Rat - Oral)	No data	5 mg/kg bw (Rats female - Oral)	5	333.3333	(Opinion of the Scientific Committee on Food on Thujone, 2003)
5. Candelilla Wax - CAS # 8006-44-8									
	100.00	Default due to lack of data	18	> 5000 mg/kg bw (Rat - Oral)	No data	1900 mg/kg bw/day	1900	105.5555	("Final Report on the Safety Assessment of Candelilla Wax, Carnauba Wax, Japan Wax, and Beeswax" 1984)
6. Purified Water - CAS # 7732-18-5									
	100.00	Default due to lack of data	57	> 90000 mg/kg bw/day (Rat - Oral)	No data	None, safe	0	Safe [GRAS]	MERCK SDS
7. Polyglyceryl-3 Polyricinoleate - CAS # 29894-35-7 / 235783-76-3									
	100.00	Default due to lack of data	6	> 5000 mg/kg bw (Rat - Oral)	No data	1000 mg/kg bw/day (Rat - Oral)	1000	166.6667	(ECHA, n.d.-f)
8. Polyhydroxystearic Acid - CAS # 27924-99-8									
	100.00	Default due to lack of data	9	No data	No data	1000 mg/hg bw/day (Rat - Oral) from 9,10-dihydroxystearic acid oligomers (similar structure)	1000	111.1111	(Bergfeld et al., n.d.; "Scientific Opinion on the Safety Evaluation of the Substance Poly(12-Hydroxystearic Acid) Stearate, CAS No. 58128-22-6 for Use in Food Contact Materials" 2010)
9. Isostearic Acid - CAS # 30399-84-9									
	100.00	Default due to lack of data	6	> 2000 mg/kg bw (Rat - Oral)	No data	741 mg/kg bw/day (Rat - Oral) from similar compound	741	123.50000	(ECHA, n.d.-a)
10. Calendula Extract - CAS # 84776-23-8									
	10.00	(Andersen et al., 2010)	0.3	> 4640 mg/kg (Rat - Oral)	No data	50 mg/kg bw/day (via TTC and Lit)	50	166.66667	(Andersen et al., 2010; Dhiva Cosmetics, 2016)
11. Xanthan Gum - CAS # 11138-66-2									
	100.00	Default due to lack of data	15	> 5000 mg/kg bw (Rats, Dogs - Oral)	No data	3301 mg/kg bw/day (male Rats - Oral)	3301	220.06667	(Mortensen et al., 2017)
12. Glycerin - CAS # 56-81-5									
	10.00	(ECHA, n.d.-d)	3	56750 mg/kg bw (Guinea pigs - Dermal)	> 5.85 mg/L (Rat)	8000-10,000 mg/kg bw (Rat - Oral)	8000	2666.6667	(ECHA, n.d.-d)
13. Maltodextrin - CAS # 9050-36-6									

	100.00	Default due to lack of data	3	90 mL/kg (Rat - Oral)	No data	4500 mg/kg bw/day (Rat - Oral)	4500	1500	(PARCHEM SDS)
14. Potassium Cetyl Phosphate - CAS # 84861-79-0 / 19035-79-1									
	100.00	Default due to lack of data	3	>2000 mg/kg bw (Rats - Dermal)	No data	800 mg/kg bw/day (Rat - Oral)	800	266.6667	MC Biotec MSDS
15. Sodium Chloride - CAS # 7647-14-5									
	100.00	Default due to lack of data	3	>10000 mg/kg bw (Rabbit - Dermal)	> 45 mg/L air (Rat)	2533 mg/kg bw/day (Rat - Oral)	2533	844.3333	(ECHA, n.d.-g)
16. Sea Buckthorn - CAS # 2252341-16-1									
8	100.00	Default due to lack of data	240	LD ₅₀ > 10,000 mg/kg bw (rat-oral)	No data	NOAEL = 100,000 mg/kg bw/day (Rat-Oral)	100,000	416.67	(Rajkumar T.)
17. Sodium Hyaluronate - CAS # 9067-32-7									
	100.00	Default due to lack of data	3	> 5280 mg/kg bw (Rat - Oral)	No data	>=3462 mg/kg bw (Rat)	3462	1154	(Bergfeld, Donald, Belsito, Cohen, Klaassen, Rettie, et al., n.d.; Oe et al., 2011)
18. Bisabolol - CAS # 23089-26-1									
	100.00	Default due to lack of data	1.5	> 2000 mg/kg bw (Rat - Oral)	No data	200 mg/kg bw/day (Rat - Dermal)	200	133.3333	(ECHA, n.d.-f)
19. Terminalia ferdinandiana (Kakadu Plum) Extract - CAS # 1176234-54-0									
	100.00	Default due to lack of data		2840 mg/kg bw (Rat, Oral)	No data	No data	No data	No data	(Kakadu Plum SDS)
20. Vitamin C (Sodium Ascorbate) - CAS # 134-03-2									
	100.00	Default due to lack of data	9	2000 mg/kg bw (Mice - Oral)	No data	1000 mg/kg bw/day (Rats - Oral)	1000	111.1111	(Dipalmitate et al., n.d.; Fitzhugh & Nelson, 1946)
21. Vitamin E - CAS # 59-02-9									
	100.00	Default due to lack of data	3	> 5000 mg/kg bw (Rabbit - Dermal)	No data	500 mg/kg bw/day (Rats - Oral)	500	166.6667	(ECHA, n.d.-i)
22. Coriandrum Sativum - CAS # 84775-50-8									
	100.00	Default due to lack of data	1.59	LD ₅₀ > 3588 mg/kg bw (rat-oral)	No data	160 mg/kg bw/day (Rat-Oral)	160	100.63	(ECHA, n.d.-coriander)
23. Citrus grandis - CAS # 90045-43-5									
	100.00	Default due to lack of data	0.36	> 5000 mg/kg bw (Rats - Oral) and >5000 mg/kg bw (Rabbit-Dermal)	No data	1000 mg/kg bw/day on males and 340 mg/kg bw/day in females	340	339.64	ECHA, n.d.-d)
24. Iron Oxide Black - CAS # 12227-89-3									
	100.00	Default due to lack of data	0.30	> 10000 mg/kg bw (Rat - Oral)	No data	100 mg/kg bw/day (Check lethal MSDS)	100	333.3333	Lethal Cosmetics MSDS/Get value of NOAEL from manufacturer

25. Iron Oxide Red - CAS # 1309-37-1									
	100.00	Default due to lack of data	0.30	> 10000 mg/kg bw (Rat - Oral)	> 5.0 mg/L (Rat)	> 1000 mg/kg bw/day (Rat)	1000	333.3333	(ECHA, n.d.-a)
26. Iron Oxide Yellow - CAS # 51274-00-1									
	100.00	Default due to lack of data	0.30	> 10000 mg/kg bw (Rat - Oral)	> 5.0 mg/L (Rat)	> 1000 mg/kg bw/day (Rat)	1000	333.3333	(ECHA, n.d.-d)

SECTION 3 — HAZARDS IDENTIFICATION

Non-Hazardous Chemical. Non-Dangerous Goods. According to the WHS and the ADG Code.

Route of Entry	x Skin Contact	x Eye Contact	<input type="checkbox"/> Inhalation	x Ingestion
[Emergency Overview]	Not Applicable			
[WHMIS Symbols]	Not Applicable			
Potential Health Effects				
This product is not classified as a hazardous chemical for purposes of the OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200. It is a cosmetic regulated by the U.S. Food and Drug Administration (FDA) and packaged for sale to consumers in a retail establishment. Therefore, it is exempt from the requirements of the HCS per 29 CFR 1910.1200(b)(6)(viii).				
Flammable	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If yes, under which conditions?	
			Not Applicable	
Means of Extinction				
Suitable Extinguishing Media: Apply extinguishing measures suitable to current circumstances and surroundings. Sensitivity to Static Discharge: Not sensitive Protective Equipment and Precautions for Firefighters: During structural fires (one beyond incipient stage), wear full protective gear and use MSHA/NIOSH approved self-contained, pressure-demand breathing apparatus.				
Flashpoint (° C) and Method	Upper Flammable Limit (% by volume)		Lower Flammable Limit (% by volume)	
Not Applicable	No data available		No data available	
Autoignition Temperature (°C)	Explosion Data — Sensitivity to Impact		Explosion Data — Sensitivity to Static Discharge	
No data available	No data available		No data available	
Hazardous Combustion Products				
None known				

GHS Signal word: Not applicable

Hazard Statement

Not applicable

Precautionary Statements

P101+ P102+ P103: If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read Label before use.

Response

P305+P351+P338 IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice.

P332 + P313 If irritation or skin sensitisation develops, discontinue use. If irritation or skin sensitisation persists, consult a doctor.

Inhalation: No adverse effect known.

P301+330+331: IF SWALLOWED: Rinse Mouth. DO NOT induce vomiting. Drink water. Seek medical advice.

Contact the Poisons Information Centre on 13 11 26

Storage

P401: Store below 30°C. It will be stable and effective for at least 3 years if stored below 30°C in a cool, dry place. Keep out of the reach of children. Keep in its original container, and kept closed when not in use. Do not store in direct sunlight.

Disposal

P501: Observe all local regulations

SECTION 4 — FIRST AID MEASURES

Inhalation: Not normally required, no adverse affect known.

Skin Contact: Not normally required, if so, rinse skin or shower with water. If irritation or skin sensation develops discontinue use.

If irritation or skin sensation persists, consult a doctor.

Eye Contact: Immediately flush eyes with large amounts of water for at least 15 minutes lifting eyelids occasionally to facilitate irrigation. Seek Medical Advice.

Ingestion: DO NOT induce vomiting. Drink plenty of water. Rinse mouth thoroughly with water until no taste remains. If poisoning occurs seek medical attention immediately. For advice, contact Poisons Information Centre: 131126.

Additional info: In case of discomfort or irritation discontinue use. If necessary consult a physician.

Advice to doctor: Treat symptomatically.

SECTION 5 — FIRE FIGHTING MEASURES

Flammable <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, under which conditions? Not Applicable
Means of Extinction Suitable Extinguishing Media: Apply extinguishing measures suitable to current circumstances and surroundings. Sensitivity to Static Discharge: Not sensitive Protective Equipment and Precautions for Firefighters: During structural fires (one beyond incipient stage), wear full protective gear and use MSHA/NIOSH approved self-contained, pressure-demand breathing apparatus.		
Flashpoint (° C) and Method Not Applicable	Upper Flammable Limit (% by volume) No data available	Lower Flammable Limit (% by volume) No data available
Autoignition Temperature (°C) No data available	Explosion Data — Sensitivity to Impact No data available	Explosion Data — Sensitivity to Static Discharge No data available
Hazardous Combustion Products None known		

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures
Personal Precautions: Avoid contact with eyes. Rinse eyes thoroughly if exposed as described in section 4.
Environmental Precautions: Ensure product is not flushed into surface water or sanitary system.
Containment method: Use absorbent materials only during spillage if safe to do so. Also refer to protective measures in sections 7 and 8.
Cleaning up: When disposing, always keep in suitable, closed containers.
Emergency procedures: None required
Protective Equipment: None required

SECTION 7 — HANDLING AND STORAGE

Handling Procedures and Equipment: When handling, always follow good industrial hygiene and safety practice and avoid contact with eyes.

Handling Precautions: Avoid contact with eyes and ingestion. If mold has formed, do not use, dispose in garbage.

Storage: Store in cool, dry, well-ventilated area. Store below 30°C. Product is not defined as a dangerous good. It will be stable and effective for at least 3 years if stored below 30°C in a cool, dry place out of the reach of children in its original container, and kept closed when not in use. Do not store in direct sunlight. Handle with care and avoid spillage on the floor (slippage).

SECTION 8 — EXPOSURE CONTROL/ PERSONAL PROTECTION

Exposure Limits <input type="checkbox"/> ACGIH TLV <input type="checkbox"/> OSHA PEL <input type="checkbox"/> Other (specify)
Specific Engineering Controls (such as ventilation, enclosed process) None needed. It is recommended to rinse eyes if exposed.
Personal Protective Equipment: <input checked="" type="checkbox"/> None required <input type="checkbox"/> Gloves <input type="checkbox"/> Respirator <input type="checkbox"/> Eye <input type="checkbox"/> Footwear <input type="checkbox"/> Clothing <input type="checkbox"/> Other If checked, please specify type

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical State Lotion	Odour and Appearance Pleasant odour and white lotion	Odour Threshold (ppm) No data available
Specific Gravity 1.01 -1.02 g/ml	Vapour Density (air = 1) No data available	Vapour Pressure (mmHg) No data available
Evaporation Rate No data available	Boiling Point (° C) No data available	Freezing Point (° C) No data available
pH 6.8 -7.5	Coefficient of Water/Oil Distribution No data available	[Solubility in Water] No data available

SECTION 10 — STABILITY AND REACTIVITY

Chemical Stability: Stable? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If no, under which conditions? Not Applicable
Incompatibility with other substances <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, which ones? Not Applicable
Reactivity with other substances Not reactive. Hazardous reactions not anticipated and hazardous polymerization does not occur.	
Hazardous Decomposition Products None known.	

SECTION 11 — TOXICOLOGICAL INFORMATION

HEALTH EFFECTS

- Ingestion:** No Data available. Considered an unlikely route of entry in commercial/ industrial environments.
- Eye Irritation:** May cause eye irritation. Avoid contact with eyes.
- Skin Irritation:** May cause skin irritation, however this product has been shown NOT to illicit an irritative response when tested on human subjects during SPF testing.
- Inhalation:** None Known.
- Skin sensitisation:** None Known.
- Chronic Health Effects:** No data available on long term effects of this product

SECTION 12 — ECOTOXICOLOGICAL INFORMATION

Biodegradability: Unknown
Cautions: Use product as intended.

Aquatic toxicity:
Reef Safe (Hawaii Reef Compliant Act 104, 2021).

SECTION 13 — DISPOSAL CONSIDERATIONS

Disposal Method:
Observe local regulations when disposing. Rinse empty containers thoroughly before recycling. Materials should be recovered for reuse if possible.

SECTION 14 — TRANSPORT INFORMATION

NOT Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods (ADG Code)
UN Number: N/A
Class and subsidiary
Risk: N/A
Packing Group: N/A
Hazchem Code: N/A

SECTION 15 — REGULATORY INFORMATION

<p>[WHMIS Classification] Not covered by WHMIS Classification</p>	<p>[OSHA] Not considered as hazardous by OSHA Hazard Communication Standard (29 CFR 1910.1200)</p>
<p>[SERA]</p>	<p>[TSCA] Product regulated under Federal Food, Drug and Cosmetic Act. Not subject to Toxic Substances Control Act requirements.</p>
<p style="text-align: center;"><i>This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR</i></p>	
<p>Refer to Section 2- Hazards Identification. Symbols of danger: Not subject to identifications regulations Risk Phrases: Not required Safety Phrases: Not required</p>	

SECTION 16 — OTHER INFORMATION

THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

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Alterations are not permitted without prior written authorisation from Veganic SKN Pty Ltd.

** Please read all labels carefully before using this product.

This SDS is prepared in accord with the SWA document "Preparation of Safety Data Sheets for Hazardous Chemicals- Code of Practice" (December 2011)

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- ECHA. (n.d.-c). *Registration Dossier: Glycerol*.
- ECHA. (n.d.-d). *Registration Dossier: Iron hydroxide oxide Yellow*.
- ECHA. (n.d.-e). *Registration Dossier: Jojoba, ext., hydrogenated*.
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