



CERTIFICATE OF ANALYSIS

PRODUCT IDENTIFICATION AND COMPOSITION

Product Name: Energy – Essential Massage Blend
Botanical Name: Not applicable
Product Code: MBENER
Batch Number: 4401409
Country of Origin: UK
Expiry Date: July 2022

Ingredients:

Component Entity	CAS Number	EINECS Number	Proportions [%w/w]
Soya Bean Oil	8001-22-7	232-274-4	85% to 95%
Lemon Oil	94266-47-4 [EU] 8008-56-8 [AICS]	304-454-3	< 3%
Rosemary Oil	8000-25-7	Not allocated	< 3%
Wheatgerm Oil	84012-44-2 [EU] 68917-73-7 [TSCA; AICS]	281-689-7	< 3%
Natural Vitamin E	59-02-9	200-412-2	< 1%
Peppermint Oil	68917-18-0	Not allocated	< 1%
Eucalyptus Blue Gum Oil	8000-48-4	Not allocated	< 1%
Main Constituents:	CAS Number	EINECS Number	Proportions [%w/w]
Eucalyptol	470-82-6	207-431-5	< 2%
d-Limonene	5989-27-5	227-813-5	< 2%

Uses: Body Massage Oil.

PHYSICAL AND CHEMICAL PROPERTIES

TEST	SPECIFICATION	RESULT
Appearance:	Clear, pale yellow oily liquid	Conforms
Odour:	Characteristic aroma	Conforms



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Issue/Revision Date: 14th July 2015

SECTION 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product Name:	Energy - Massage Blend
1.2 Product Code:	MBENER
1.3 Synonyms:	None identified
1.4 AUSTRALIAN AICS Name:	Not allocated
1.5 USA INCI Name:	Not allocated
1.6 EU [CosIng] INCI Name:	Not allocated
1.7 EU [CosIng] Perfuming Name:	Not allocated
1.8 UN Proper Shipping Name:	Not applicable
1.9 UN Technical Shipping Name:	Not applicable
1.10 UN Number:	Not applicable
1.11 AUSTRALIAN Schedule Name:	Lemon Oil
1.12 Recommended Product Use:	Massage oil.
1.13 Company:	MADAR Corporation Limited
1.14 Address:	19-20 Sandleheath Industrial Estate, Fordingbridge, SP6 1PA
1.15 Telephone Number:	01425 655555
1.16 Email:	sales@madarcorporation.co.uk
1.17 Approved Sellers:	Cosmetic Butters, Mystic Moments, New Directions, World of Moulds

SECTION 2 – HAZARDS IDENTIFICATION

Hazardous according to criteria of Safe Work Australia

Classified as Hazardous according to European Commission Regulation EC 1272/2008

Not a Dangerous Good according to the Australian Dangerous Goods (ADG) Code

Not a Dangerous Good according to the International Maritime Dangerous Goods (IMDG)

Not a Dangerous Good according to the IATA Dangerous Goods Regulations

**Class: C1 Combustible Liquid
SUSMP Scheduled 5 Poison**

2.1 Hazardous Categories:

Physical	Flammable Liquid	Category 4
Health	Eye Irritation	Category 2A
	Skin Irritation	Category 3
	Specific Target Organ Toxicity (Single Exposure)	Category 3 (respiratory tract irritation)
Environmental	No Category	

2.2 Signal Word:

Warning



Exclamation mark GHS07

2.3 Hazard Statements:

H227	Combustible liquid.
H242	Heating may cause a fire.
H316	Causes mild skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
EUH044	Risk of explosion if heated under confinement.

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SECTION 2 – HAZARDS IDENTIFICATION CONTINUED

2.4 Precautionary Statements:

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of the reach of children.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical, ventilating, lighting, ... , equipment.
P243	Take precautionary measures against static discharges.
P261	Avoid breathing fumes / mist / vapours / spray.
P262	Do not get in eyes, on skin, or on clothing.
P264	Wash face, hands and any exposed skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P285	In case of inadequate ventilation wear respiratory protection.

2.5 Response Precautionary Statements:

P301+P310+P330+P331	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.
P303+P352+P362	IF ON SKIN (or hair): Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse.
P304+P340+P312	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P309+P311	IF exposed or you feel unwell: Call a POISON CENTER or doctor/physician.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P370+P378+P260	In case of fire: Use Carbon Dioxide, Dry Chemical or Universal-Type Foam for extinction. Do not breathe fumes.
P391	Collect spillage.

2.6 Storage Precautionary Statements:

P403+P233+P235	Store in a well-ventilated place. Keep container tightly closed. Keep cool.
P405+P410	Store locked up. Protect from sunlight.

2.7 Disposal Precautionary Statements:

P501	Dispose of contents/container to an approved waste disposal plant.
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2.8 Other:

Combustion Products are harmful if inhaled and can irritate the eyes & respiratory system. Contact with heated material may result in burns.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Ingredients:

Component Entity	CAS Number	EINECS Number	Proportions [%w/w]
Soya Bean Oil	8001-22-7	232-274-4	85% to 95%
Lemon Oil	94266-47-4 [EU] 8008-56-8 [AICS]	304-454-3	< 3%
Rosemary Oil	8000-25-7	Not allocated	< 3%
Wheatgerm Oil	84012-44-2 [EU] 68917-73-7 [TSCA; AICS]	281-689-7	< 3%
Natural Vitamin E	59-02-9	200-412-2	< 1%
Peppermint Oil	68917-18-0	Not allocated	< 1%
Eucalyptus Blue Gum Oil	8000-48-4	Not allocated	< 1%
Main Constituents:	CAS Number	EINECS Number	Proportions [%w/w]
Eucalyptol	470-82-6	207-431-5	< 2%
d-Limonene	5989-27-5	227-813-5	< 2%

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SECTION 4 – FIRST AID MEASURES

- 4.1 Eye Contact:** Flush immediately with clean water for at least 15 minutes. Ensure irrigation 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.
- 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.
Quickly immerse affected area in cold water for at least 20 minutes.
Contact a physician immediately.
Bandage lightly with a sterile dressing. Treat for shock if required.
- 4.5 Burns:** Lay patient down. Keep warm and rested. Transport to hospital, or doctor.
- 4.6 For Advice:** Contact a Poisons Information Centre or a doctor at once.
- 4.7 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 Local Emergency Authority.

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.
- 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 – HANDLING AND STORAGE

- 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. No smoking.
- 7.2 Storage:** 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.
Store in stainless steel drums or amber glass containers.
For short term storage only: epoxy phenolic lined steel drums.
- 7.3 Unsuitable Packaging Materials:** None established.
- 7.4 Special Procedures:** Protect against electrostatic charges, Others not established.

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SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Exposure Limits	There is a blanket recommendation of 10 mg/m ³ for inspirable dusts or mists when limits have not otherwise been established.
OSHA TWA:	None established.
OSHA STEL:	None established.
ACGIH TWA:	None established.
ACGIH STEL:	None established.
NOHSC TWA:	None established.
NOHSC STEL:	None established.
8.2 Respiratory Protection:	None generally required. Use NIOSH approved respirator in confined areas or if ventilation is inadequate.
8.3 Ventilation Protection:	Ensure adequate ventilation to keep exposure levels to a minimum. Local exhaust meeting ACGIH criteria is required. General exhaust is recommended.
8.4 Eye Protection:	Using goggles or face shield is recommended.
8.5 Protective Gloves:	Using chemical resistant gloves is recommended.
8.6 Protective Clothing:	Using chemical resistant clothing is recommended.
8.7 Protective Equipment:	An eyewash fountain and / or safety shower should be available in the work area.
8.8 Special Engineering Controls:	None established.
8.9 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 , Occupational Protective Footwear: AS/NZS 2210 .
8.10 Note:	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

9.1 Appearance:	Liquid
9.2 Odour:	Characteristic
9.3 Specific Gravity:	Not available.
9.4 Refractive Index:	Not available.
9.5 Optical Rotation:	Not available.
9.6 pH:	Not available.
9.7 Solubility:	Not available.
9.8 Solubility in Water:	Insoluble
9.9 Flash Point:	Not available.
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.
9.13 Boiling Range:	Not available.
9.14 Vapour Pressure:	Not available.
9.15 Vapour Density:	Not available.
9.16 Viscosity:	Not available.

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:	Combustible 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.

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SECTION 11 – TOXICOLOGICAL INFORMATION

11.1 Health Hazards

Acute Effects:	Swallowed:	May be harmful.
	Eye:	May be irritating.
	Skin:	May be irritating.
	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.

11.2 Acute Toxicity

Significant Components	LD50 [Oral]	LD50 [Dermal]	LC50 [Inhalation]
Soya Bean Oil	Not available.	Not available.	Not available.
Lemon Oil	> 3,000 mg/Kg [Calc.].	Not available.	Not available.
Rosemary Oil	5,000 mg/Kg [Rat].	> 10,000 mg/Kg [Rabbit].	Not available.
Wheatgerm Oil	Not available.	Not available.	Not available.
Natural Vitamin E	> 25,000 µL/Kg [Mouse].	Not available.	Not available.
Peppermint Oil	1,240 mg/Kg [Rat].	> 5,000 mg/Kg [Rabbit].	Not available.
Eucalyptus Blue Gum Oil	2,480 mg/Kg [Rat]. 3,320 mg/Kg [Mouse].	2,480 mg/Kg [Rabbit].	Not available.
Main Constituents			
Eucalyptol	2,480 mg/Kg [Rat].	> 5,000 mg/Kg [Rabbit].	Not available.
d-Limonene	4,400 mg/Kg [Rat]. 5,600 mg/Kg [Mouse].	> 5,000 mg/Kg [Rabbit].	Not available.
Energy – Massage Blend	Not available.	Not available.	Not available.

11.3 Short Term Toxicity: Not available.

11.4 Long Term Toxicity: Not available.

11.5 Human Exposure Tests: Not available.

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

CONSTITUENT	IFRA	EFFA	CAS Number	EINECS Number	RANGE
Amyl Cinnamal:	YES	NO	122-40-7	204-541-5	Not Detected
Amylcinnamyl Alcohol:	YES	NO	101-85-9	202-982-8	Not Detected
Anise Alcohol:	NO	YES	105-13-5	203-273-6	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	< 0.06%
Citronellol:	NO	YES	106-22-9	203-375-0	< 0.002%
Coumarin:	NO	YES	91-64-5	202-086-7	Not Detected
Eugenol:	YES	YES	97-53-0	202-589-1	Not Detected
Farnesol:	YES	YES	4602-84-0	225-004-1	Not Detected
Geraniol:	NO	YES	106-24-1	203-377-1	< 0.004%
Hexyl Cinnamal:	YES	NO	101-86-0	202-983-3	Not Detected
Hydroxycitronellal:	YES	NO	107-75-5	203-518-7	Not Detected
Isoeugenol:	YES	YES	97-54-1	202-590-7	Not Detected
Butylphenyl Methylpropional:	YES	NO	80-54-6	201-289-8	Not Detected
d-Limonene:	YES	YES	5989-27-5	227-813-5	< 2.0%
Linalool:	YES	YES	78-70-6	201-134-4	< 0.02%
Hydroxyisohexyl 3-Cyclohexene Carboxaldehyde:	NO	NO	31906-04-4	250-863-4	Not Detected
Methyl 2-Octynoate:	YES	NO	111-12-6	203-836-6	Not Detected
alpha-Isomethyl Ionone:	YES	NO	127-51-5	204-846-3	Not Detected
Evernia Prunastri Extract [Oakmoss]:	YES	NO	9000-50-4		Not Detected
			68917-10-2		
			90028-67-4	289-860-8	
Evernia Furfuracea Extract [Treemoss]:	YES	NO	68648-41-9	68917-40-8	Not Detected

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SECTION 12 – ECOLOGICAL INFORMATION

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

SECTION 13 – DISPOSAL CONSIDERATIONS

13.1 Waste Material:	Place material and / or absorbent into sealed containers and dispose of in accordance with current applicable laws and regulations. Refer to local Authority advice.
13.2 Contaminated Packaging:	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 Road and Rail. No special transport required. Not to be transported with Classes 1 [Explosives], 2.1 [Flammable Gases] [nb this applies only when the capacity of individual container exceeds 500 Lt], 2.3 [Toxic Gases], 4.2 [Spontaneously Combustible Substances], 5.1 [Oxidising Agents], 5.2 [Organic Peroxides], 7 [Radioactive Substances], and Foodstuffs or Foodstuff empties.
14.2 UN Number:	Not allocated.
14.3 Proper Shipping Name:	Not Regulated.
14.4 Technical Shipping Name:	Not applicable
14.5 DG Class / Subsidiary Risk:	Not allocated.
14.6 Label(s):	Not allocated.
14.7 Packaging Group:	Not allocated.
14.8 Special Precautions:	None established.
14.9 Hazchem Code:	Not allocated.

14.10 Maritime Transportation IMDG

IMDG Class:	Not allocated.
Label(s):	Not allocated.
UN Number:	Not allocated.
Packaging Group:	Not allocated.
EMS Number:	Not allocated.
Marine Pollutant:	Not allocated.
Proper Shipping Name:	Not Regulated.
Technical Shipping Name:	Not applicable

14.11 Air Transportation ICAO-TI and IATA-DGR

ICAO / IATA Class:	Not allocated.
Label(s):	Not allocated.
UN Number:	Not allocated.
Packaging Group:	Not allocated.
Proper Shipping Name:	Not Regulated.
Technical Shipping Name:	Not applicable

SECTION 15 – REGULATORY INFORMATION

15.1 SUSMP Schedule:	5	CAUTION.
15.2 SUSMP Name:		Lemon Oil
15.3 Warning Statements:	89	Application to skin may increase sensitivity to sunlight.
15.4 Safety Directions:	1	Avoid contact with eyes.
	3	Wear eye protection when mixing or using.
	5	Wear protective gloves when mixing or using.
	6	Wash hands after use.
	11	No smoking.
	15	Store under cover in a dry, clean, cool, well ventilated place away from sunlight.
	23	Keep away from heat, sparks and naked flames.
	25	Avoid contact with food.
15.5 Standard Statements:	A	For advice, contact a Poisons Information Centre or a doctor at once.
	G3	If swallowed, do NOT induce vomiting.
15.6 AICS:		This product's ingredients are listed on the Public AICS Database.
15.7 NZIoC:		This product's ingredients are listed on the NZIoC Database.
15.8 HSNO:		Not allocated

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[16. ADDITIONAL INFORMATION

16.1 Issue Date: 14th July 2015 First issue according to Safe Work Australia GHS Code of Practice

16.2 Revision Date: Not applicable

16.3 QUALITY DECLARATION

At MADAR Corporation Ltd we firmly believe that Quality Control is of the utmost importance and it is imperative that the most meticulous tests are carried out for every product in our range.

Uncompromising quality is a responsibility, which we take seriously.

This Energy – Massage Blend has been tested and it conforms to our High Standard Quality requirements.

16.4 ANIMAL TESTING POLICY DECLARATION

MADAR Corporation Ltd does not test raw materials on animals, neither initially or as a routine test, [nor by outside sources on our behalf].

The product Suppliers for MADAR Corporation Ltd do not test their products on animals, neither initially or as a routine test.

None of MADAR Corporation Ltd finished formulations are tested on animals, either initially or as a routine test, except, of course, humans in controlled efficacy tests and against bacteria in preservative efficacy testing.

16.5 DISCLAIMER

This Safety Data Sheet was prepared according to: Safe Work Australia's Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals, [Publication date: 23/12/2011].

The information contained in this Safety Data Sheet is obtained from current and reliable sources. MADAR Corporation Ltd provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This 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 MADAR Corporation Ltd., 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. MADAR Corporation Ltd expressly disclaims responsibility as to the ordinary or otherwise use(s). Furthermore, nothing contained herein should be considered as a recommendation by MADAR Corporation Ltd as to the fitness for any use. The liability of MADAR Corporation Ltd is limited to the value of the goods and does not include any consequential loss. MADAR Corporation Ltd shall not be liable for any errors or delays in the content, or for any actions taken in reliance thereon. MADAR Corporation Ltd 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.

16.6 MANUFACTURED PRODUCTS INGREDIENT DISCLAIMER

As the availability of ingredients and raw materials is not always certain whether due to changes in nature or otherwise, MADAR Corporation Ltd reserves the right to substitute alternate ingredients/raw materials in the manufacture of its products and bases in order to maintain supply to its customers. Customers should always refer to the ingredients label as affixed to each product or to specification sheets which are current at the time of supply of the product.

16.7 LABELLING DISCLAIMER

MADAR Corporation Ltd is a wholesaler of natural skin care products. If you intend to re-label our products under your own name/brand for the purpose of on-selling or retailing, we thoroughly recommend that you keep up to date with constant changing labelling laws. Please visit www.accc.gov.au or www.nicnas.gov.au. MADAR Corporation Ltd cannot be held responsible for consequential loss/product recall due to incorrect labelling.

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16.8 ACRONYMS

<	less than
>	greater than
°C	degrees Celsius
ACCC	Australian Competition and Consumer Commission
ADG	Australian Dangerous Goods
AICS	Australian Inventory of Chemical Substances
ACGIH	American Conference of Governmental Industrial Hygienists
AS	Australian Standard
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (Registry Number)
cm ³	cubic centimetres
COD	Chemical Oxygen Demand
CosIng	The European Commission database with information on Cosmetic Ingredients & Substances
DG	Dangerous Goods
EC	European Commission
EC50	EC stands for effective concentration. EC50 refers to the concentration of a toxicant which induces a response halfway between the baseline and maximum after a specified exposure time.
EFFA	European Flavour Association
EINECS	European Inventory of Existing Commercial Chemical Substances (Identifying Number)
EU	Europe / European Union
g	gram
GHS	The Globally Harmonized System of Classification and Labelling of Chemicals
GMO	Genetically modified organism
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially fire fighters
hr	Hour
HSIS	The Safe Work Australia Hazardous Substances Information System
HSNO	Hazardous Substances Approval Code
IATA	The International Air Transport Association
ICAO	The International Civil Aviation Organization
IFRA	The International Fragrance Association
IMDG	International Maritime Dangerous Goods
INCI	The International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
kg	kilogram
LC50	LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours. This is normally quoted in mg/kg body weight.
LD50	LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals. This is normally quoted in mg/kg body weight.
LDLo	LDLo stands for Lethal Dose Low, the minimum amount of a material which tests have shown will be lethal to a specified type of animal. This is normally quoted in mg/kg body weight.
Lt	Litre
Max.	maximum
mg	milligram
Min.	minimum
ml	millilitre
m ³	cubic metre
mm	millimetre
mm Hg	millimetre of Mercury
N/A	Not Applicable
NICNAS	The National Industrial Chemicals Notification and Assessment Scheme (AUSTRALIA)
NIOSH	The National Institute for Occupational Safety and Health (USA)
NOHSC	National Occupational Health and Safety Commission (AUSTRALIA)
n.o.s.	Not otherwise specified
NZS	New Zealand Standard
NZIoC	New Zealand Inventory of Chemicals
OECD	Organization for Economic Co-operation and Development (Test Method number)
OSHA	The Occupational Safety and Health Administration (USA)
PEL	Permissible Exposure Limit
ppb	parts per billion
ppm	parts per million

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16.8 ACRONYMS CONTINUED

RTECS	The Registry of Toxic Effects of Chemical Substances
SCCNFP	Scientific Committee on Cosmetic Products and Non-Food Products (EUROPE)
SDS	Safety Data Sheet
STEL	Short Term Exposure Limit
Subsp.	Subspecies
SUSMP	Standard for the Uniform Scheduling of Medicine & Poisons (AUSTRALIA)
TD	TD stands for Toxic Dose. TD is the amount of a material, given all at once, which causes the untoward symptoms in the majority of persons, or in the majority of a group of test animals. This is normally quoted in mg/kg body weight.
TGA	Therapeutic Goods Administration (AUSTRALIA)
TLV	Threshold Limit Value
TWA	Time Weighted Average
UK	United Kingdom
UN	United Nations
USA	The United States of America
µg	microgram
µl	microlitre