

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & THE COMPANY UNDERTAKING

Product Name	Turmeric Essential Oil
INCI No	<i>Curcuma Longa Root Oil</i>
Synonyms & Trade names	Spanish Thyme (Red) Oil
Botanical Name/Family	Curcuma Longa L. Oil
Supplier	Escentia Products Pty Ltd
	Unit E1 Fairque Business Park
	Benoni
	Johannesburg
	South Africa
	+27 (0) 11 425 3281
Contact person	Regulatory Manager


CAS - No.	8024-37-1 84775-52-0	EC No.	283-882-1	EINEC No.	283-882-1	FEMA No.	3085
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2. COMPOSITION / INFORMATION ON INGREDIENTS

2.1. Ingredients			
NAME OF CONSTITUENT	CAS NO.	EC NO.	% COMPOSITION
Eucalyptol	470-82-6	207-431-5	0.5 - 2%
alpha-Phellandrene	99-83-2	202-792-5	0.5 - 2%
Eugenol	97-53-0	202-589-1	0.05 - 0.8%
dl-Limonene (racemic)	138-86-3	205-341-0	0.1 - 0.5%
alpha-Pinene	80-56-8	201-291-9	0.05 - 0.5%
beta-Pinene	127-91-3	204-872-5	0.05 - 0.5%

3. HAZARD IDENTIFICATION

3.1. Classification of substance or mixture	
The full text for all hazard statements is displayed in section 16	
Flammable Liquid	Category 4
Skin Sensitization	Category 1
Hazardous to aquatic environment, long term treatment	Category 3

3.2. Label Elements	
Labels in accordance with (EC) No 1272/2008	
	
Signal word	Warning
3.3. Hazardous Statements	
H227	Combustible liquid
H317	May cause an allergic skin reaction
H412	Harmful to aquatic life with long lasting effects
3.4. Precautionary Statements	
P210	Keep away from heat, sparks, open flames, and hot surfaces. No smoking
P280	Wear protective gloves/protective clothing/eye protection/face protection
P261	Avoid breathing dust, fume, gas, mist, vapours and spray
P272	Contaminated work clothing should not be allowed out of the workplace
P302/P352	IF ON SKIN: wash with plenty of soap and water
P321	Specific treatment...
P333/P313	If skin irritation on rash occurs: get medical advice or attention
P363	Wash contaminated clothing before reuse
P370/P378	In case of fire: use carbon dioxide, foam or dry powder for extinction
3.5. Storage and Disposal statements	
P403/P235	Store in a well ventilated place. Keep cool
P501	Dispose of contents and container in accordance with international regulation
3.6. Other hazards	
No additional data available	

4. FIRST AID MEASURES

4.1. Description of first aid measures	
Inhalation	If inhaled, remove to fresh air. Get medical attention if symptoms appear
Ingestion	Seek medical attention or contact local poison control center

Skin contact	Remove contaminated clothing, wash thoroughly with soap and water and rinse. If causes irritation after prolonged contact, if so seek medical attention
Eye contact	Immediately flush eyes with plenty of cool water for at least 15 minute. Get medical attention if irritation occurs
4.2. Most important symptoms and effects, both acute and delayed	
No additional data available	
4.3. Indication of any immediate medical attention and special treatment needed	
No additional data available	

5. FIRE FIGHTING MEASURES

5.1. Extinguishing media	
Suitable extinguishing media	CO2, foam or powder extinguishers
5.2. Special hazards arising from the product	
Wear proper protective equipment. Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers	
5.3. Advice for firefighters	
No additional data available	

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precaution, protection equipment and emergency procedure	
Equip a clean crew with proper protection. Respirator protection equipment may be necessary	
6.2. Environmental precautions	
Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters	
6.3. Methods and material for containment and cleaning up	
Clean up any spills as soon as possible, using an absorbent material to collect it. Use suitable disposal containers	
6.4. Reference to other sections	
No additional data available	

7. HANDLING AND STORAGE

7.1. Precautions for safe handling	
No direct lighting. No smoking. Ensure prompt removal from eyes, skin and clothing. Wash hands and other exposed areas with milk soap and water before eating, drinking or smoking and when leaving work. Handle in accordance with good industrial hygiene and safety procedures	
7.2. Conditions for safe storage, including any incompatibilities	
Provide local exhaust or general room ventilation to minimize dust and/or vapour concentrations. Keep container closed when not in use	

7.3. Specific end use(s)
No additional data available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Exposure controls
Odor is inadequate to warn of overexposure
8.2. Eyes
Wear safety glasses
8.3. Skin
If skin contact or contamination of clothing is likely, protective clothing should be worn. Use protective gloves
8.4. Respiratory
In case of insufficient ventilation, wear suitable respiratory equipment
8.5. Ingestion
No for ingestion

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties	
Appearance	Liquid
Colour	Pale yellow to orange yellow
Odour	Characteristic warm, spicy turmeric odour
Flash point	66°C
Relative density	0.920 - 0.960 @ 20°C
Refractive index	1.500 - 1.520 @ 20°C
Boiling point	No additional data available
Melting point	No additional data available
Vapour pressure	No additional data available
Solubility in water @ 20°C	Insoluble in water, soluble in alcohol and other oils
Auto ignition temperature	No additional data available
Optical rotation	- 20° to + 30°
9.2. Other information	
No additional data available	

10. STABILITY AND REACTIVITY

10.1. Reactivity
This material presents no significant reactivity hazard
10.2. Chemical Stability
Chemically stable
10.3. Possibility of hazardous reactions
Hazardous polymerization will not occur
10.4. Conditions to avoid
Strong oxidizing agents
10.5. Incompatible materials
None known
10.6. Hazardous decomposition products
When heated to decomposition produces toxic fumes and carbon dioxide smoke

11. TOXICOLOGICAL INFORMATION

11.1. Acute toxicity		
Eucalyptol	LD50 (ORAL)	2480mg/kg
Eugenol	LD50 (ORAL)	2300mg/kg
a-Pinene	LD50 (ORAL)	3500mg/kg
11.2. Carcinogenicity		
None of the components of this material are listed as a carcinogen		
11.3. Chronic toxicity		
May cause allergic reactions on skin		
11.4. Reproductive toxicity		
No adverse effects on reproduction are known		
11.5. Inhalation		
Inhalation of high concentration of vapour may result in irritation of eyes, nose and throat, headache, nausea and dizziness		
11.6. Skin contact		
Adverse skin effects should be prevented by normal care and personal hygiene		
11.7. Eye contact		
Adverse skin effects should be prevented by normal care and personal hygiene		
11.8. Ingestion		
Low odor toxicity causing irritation of the stomach and intestines which results in nausea and vomiting		

11.9. Repeated exposure	
Repeated or prolonged contact can cause redness, irritation and scaling of skin (dermatitis)	
12. <u>ECOLOGICAL INFORMATION</u>	
12.1. Ecotoxicity	
Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment. Avoid any pollution of ground surface or underground water	
13. <u>DISPOSAL CONSIDERATIONS</u>	
13.1. Waste treatment methods	
Do not release into the environment. Dispose of according to local regulations	
14. <u>TRANSPORT INFORMATION</u>	
14.1. UN numbers	
Road	Not regulated
Sea	Not regulated
Air	Not regulated
14.2. UN Proper shipping name	
Not regulated	
14.3. Transport hazard class(es)	
ADR/RID	Not regulated
IMDG/IMO	Not regulated
ICAO/IATA	Not regulated
14.4. Packing group	
ADR/RID	Not regulated
IMDG/IMO	Not regulated
ICAO/IATA	Not regulated
14.5. Environmental hazards	
Not regulated	
14.6. Special precautions for user	
Not regulated	
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code	
Not regulated	

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	
Statutory instruments	The chemicals [Hazard information and packaging for supply regulation 2009 (SI 2009 NO 716)]
Guidance notes	Workplace exposure limit EH40. CHIP for everyone HSG(108)
EU Legislation	Regulation (EC) No 1907/2006 of the European Parliament and the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulations (EC) No 1488/94 as well as Council Directive 79/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC, 2000/21/EC, including amendments
15.2. Chemical safety assessment	
No additional data available	

16. OTHER INFORMATION

16.1. Hazardous and precautionary statements	
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Disclaimer

As the users' conditions of work are not known, the information contained in this Material Safety Data Sheet is accurate to the best of our knowledge and is based on the national community regulations.

The product must not be employed for uses other than those specified without having previously obtained written handling instructions. Users are responsible for taking all necessary to comply with the requirements of the law and local regulations. The information contained in this sheet should be regarded as the description of the safety requirements relating to our products and not as a guarantee of its properties.