


MATERIAL SAFETY DATA SHEET

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

1.1 Product Identifier					
Product Name		Turmeric Essential Oil			
Biological Definition		Curcuma longa L.			
INCI Name		Curcuma longa L. Root Oil			
Synonyms & Trade Names		-			
CAS-No	8024-37-1/84775-52-0	EC No.	283-882-1	EINECS No.	283-882-1 -
1.2 Relative identified uses of the substance or mixture and uses advised against					
No further information available.					
1.3 Details of the supplier of the safety data sheet					
NTM UK LTD, 69 Bethel Street, Norwich, Norfolk, United Kingdom NR2 1NR					
1.4 Emergency Tel. No.		+44(0)1603 610883			

02. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	
The Full Text for all Hazard Statements is displayed in Section 16.	
Classification (EC 1272/2008)	
Physical and Chemical Hazards: Flam. Liq. 4 Human health: Acute Tox. 4 - H302. Skin Sens. 1 Category 1 Environment: Aquatic Chronic 3 -	
2.2 Label Elements	
Label in accordance with (EC) No 1272/2008	
	
Signal Word	Warning
Contains	-
Hazard Statements	
H227 Combustible liquid.	
H317 May cause an allergic skin reaction	
H412 Harmful to aquatic life with long-lasting effects	

Precautionary Statements

P302+P352 IF ON SKIN: Wash with plenty of water.
P321 Specific treatment (see section 4 on this label).
P333+P313 If skin irritation or a rash occurs: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.
P370+P378 In case of fire: Use appropriate fire extinguisher to extinguish.
P403+P235 Store in a well ventilated place. Keep cool. P501 Dispose of contents/container according to local regulations.

Supplementary Precautionary Statements

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2.3 Other Hazards

PBT or vPvB according to Annex XIII	No additional data available.
Adverse physio-chemical properties	No additional data available.
Adverse effects on human health	No additional data available.

03. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures
0.5-2.0% Eucalyptol Cas No.:470-82-6 EC No.: EC No.:207-431-5
0.5-20% α -Phellandrene Cas No.:99-83-2 202-792-5 0.5 - 2
0.05 - 0.8 % Eugenol Cas No.: 97-53-0 EC No.: 202-589-1
0.01 - 0.5 % dl-Limonene (racemic) Cas No.:138-86-3 EC No.205-341
0.05 - 0.5 % α -Pinene Cas No.:80-56-8 EC No.:201-291-9
β -Pinene 0.05 - 0.5 % Cas No.:127-91-3 EC No.:204-872-5

04. FIRST AID MEASURES

4.1	Description of first aid measures
Inhalation	Move the exposed person to fresh air at once. Seek medical attention if any discomfort continues.
Ingestion	Seek medical assistance immediately. Rinse mouth and drink plenty of water. Keep patient under observation.
Skin Contact	Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.
Eye Contact	Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.
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.

05. FIRE-FIGHTING MEASURES

5.1	Extinguishing Media
	Do not use a direct stream of water to extinguish. Use: Powder. Carbon dioxide (CO ₂).
5.2	Special hazards arising from the product
	Specific hazards:

	When heated and in case of fire, toxic vapours/gases may be formed.
5.3	Advice for firefighters
	Protective equipment for fire-fighters: Wear Self-contained breathing apparatus. Wear chemical protective clothing.

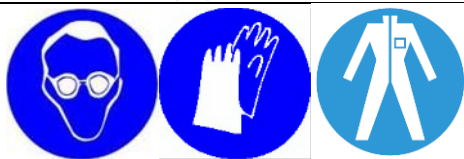
06. ACCIDENTAL RELEASE MEASURES

6.1	Personal precautions, protective equipment and emergency procedures
	Wear protective clothing as described in Section 8 of this safety data sheet.
6.2	Environmental Precautions
	Do not discharge into drains, water courses or onto the ground.
6.3	Methods and material for containment and cleaning up.
	Absorb with inert, non-combustible, inorganic absorbent material, sweep up and remove to an approved disposal container. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking.
6.4	Reference to other sections
	Refer to Section 8 for information on personal protection equipment.

07. HANDLING AND STORAGE

7.1	Precautions for safe handling
	Avoid spilling, skin and eye contact. Adopt best manual handling considerations when handling, carrying and dispensing.
7.2	Conditions for safe storage, including any incompatibilities
	Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container. Keep away from heat, sparks and open flames Store separate from strong oxidising agents.
7.3	Specific end use(s)
	No additional data available

08. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1	Control parameters
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8.2	Exposure controls
	Protective Equipment
	
Process Conditions	Safety shower and eye bath.
Engineering Measures	Provide adequate ventilation. Respiratory equipment. Self-contained breathing apparatus.
Respiratory Equipment	Protection not required if good ventilation is maintained. Use inhalation protection in poorly ventilated areas.
Hand Protection	Use suitable protective gloves if risk of skin contact.
Eye Protection	Wear approved safety goggles.
Other Protection	Wear rubber apron.
Hygiene Measures	Remove contaminated clothing and wash the skin thoroughly with soap and water after work.
Personal Protection	Use personal protection according to Directive 89/686/EEC.

Skin Protection	Wear apron or protective clothing in case of splashes.
Environmental Exposure Controls	Avoid discharging into drainage water. Only eliminate by authorised companies.

09. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties	
Appearance	Liquid
Colour	Pale Yellow to Orange
Odour	Characteristic warm, spicy turmeric
Relative Density @ 20°C	0.920 - 0.960
Flash Point (°C)	66
Refractive Index @ 20°C	1.500 - 1.520
Melting Point (°C)	Not determined.
Boiling Point (°C)	Not determined.
Vapour Pressure	Not determined.
Solubility in Water @20°C	Not miscible
Auto-ignition temperature (°C)	Not determined.

9.2 Other information
No additional data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity
No additional data available.
10.2 Chemical stability
Stable under the recommended handling and storage conditions.
10.3 Possible hazardous reactions
No additional data available.
10.4 Conditions to Avoid
Avoid heat, sparks and open flames.
10.5 Incompatible materials
Materials to Avoid: Strong oxidising agents.
10.6 Hazardous Decomposition Products
In case of fire, dangerous decomposition products can be generated, such as carbon monoxide and dioxide and nitrogen fumes and oxides.

11. TOXOLOGICAL INFORMATION

11.1 Information on toxicological effects	
Acute Toxicity	Eucalyptol: LD50 (Oral) - 2480 mg/kg Eugenol: LD50 (Oral) - 2300 mg/kg σ-Pinene LD50 (Oral) - 3500 mg/kg
Skin corrosion / irritation	Caustic effect on skin and mucous membranes.
Serious eye damage / irritation	Adverse skin effects should be prevented by normal care and personal hygiene
Respiratory or skin sensitisation	No additional data available.
Germ Cell Mutagenicity	No additional data available.
Carcinogenicity	Non Carcinogenic

Reproductive toxicity	No adverse effects on reproduction are known
STOT-single exposure	No additional data available.
STOT-repeated exposure	No additional data available.
Photo-toxicity	No additional data available.
Other Information	Harmful: could cause lung damage if swallowed. Could cause chemical burns in mouth, oesophagus and stomach.


12. ECOLOGICAL INFORMATION

12.1 Toxicity	Very toxic to aquatic organism, may cause long-term adverse effects in the aquatic environment Avoid any pollution of ground, surface or underground water.
12.2 Persistence & degradability	No additional data available.
12.3 Bioaccumulation Potential	No additional data available.
12.4 Mobility in soil	No additional data available.
12.5 Results of PBT and vPvB Assessment	No additional data available.
12.6 Other adverse effects	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods	Dispose of in compliance with all local and national regulations.
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14. TRANSPORT INFORMATION

14.1 UN number	UN No. Road	Not Regulated
	UN No. SEA	Not Regulated
	UN No. AIR	Not Regulated
14.2 UN proper shipping name	None	
14.3 Transport hazard class(es)	ADR/RID/ADN Class:	Not Regulated
	ICAO Class/Division:	Not Regulated
	IMDG Class:	Not Regulated
	Transport Labels	
14.4 Packing group	ADR/RID/ADN Packing group	
	IMDG Packing group	
	ICAO Packing group	
14.5 Environmental hazards	Environmentally Hazardous Substance/Marine Pollutant	
		

14.6	Special precautions for user
	EMS F-A-S-F
	Hazard No. (ADR) 9
	Hazard No. (ADR) 90 Environmentally hazardous substance; miscellaneous dangerous substances.
	Tunnel Restriction Code (E)
14.7	Transport in bulk according to Annex II of MARPOL73/78 and the IBC code
	No additional data available.

15. REGULATORY INFORMATION

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture
	<p>Statutory Instruments</p> <p>The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). Guidance Notes</p> <p>Workplace Exposure Limits EH40. CHIP for everyone HSG(108).</p> <p>EU Legislation</p> <p>Regulation (EC) No 1907/2006 of the European Parliament and of 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 Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.</p>
15.2	Chemical safety assessment
	No additional information available.

16. OTHER INFORMATION

Hazard and/or Precautionary Statements in Full	<p>H227 Combustible liquid.</p> <p>H317 May cause an allergic skin reaction</p> <p>H412 Harmful to aquatic life with long-lasting effects</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P321 Specific treatment (see section 4 on this label).</p> <p>P333+P313 If skin irritation or a rash occurs: Get medical advice/attention.</p> <p>P363 Wash contaminated clothing before reuse.</p> <p>P370+P378 In case of fire: Use appropriate fire extinguisher to extinguish.</p> <p>P403+P235 Store in a well ventilated place. Keep cool. P501 Dispose of contents/container according to local regulations.</p>
Other Information	None.
Revision Date	8/08/2020
Reason for revision	Updated New Format SDS.
Rev No/Repl, SDS Generated	02

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