NHR ORGANIC OILS
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Safety Data Sheet
Organic Turmeric Essential Oil
(Curcuma longa)

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

1.1 Product Identifier					
Product Name		Organic Turmeric Oil			
Biological Definition		Curcuma Longa Root Oil is the oil obtained from the root of the Turmeric, Curcuma longa L., Zingiberaceae			
INCI Name		Curcuma Longa Root Oil			
CAS	84775-52-0	EC	283-882-1	EINECS	283-882-1
1.2 Relative identified uses of the substance or mixture and uses advised against					
No additional data					
1.3 Details of the supplier of the safety data sheet					
NHR Organic Oils 24 Chatham Place Brighton East Sussex BN1 3TN UK					
1.4 Emergency Tel. No.		+ 44 (0) 1273 746 505			

02. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	
No additional data	
Classification (EC 1272/2008)	
Asp. Tox. 1 – H304 Skin Sens. 1 – H317 Aquatic Chronic 3 – H412	
2.2 Label Elements	
Label in accordance with (EC) No 1272/2008	
	
Signal Word	DANGER

Contains	- β-Bisabolene - β-Caryophyllene
Hazard Statements	
H304 - May be fatal if swallowed and enters airways. H317 - May cause an allergic skin reaction. H412 - Harmful to aquatic life with long lasting effects.	
Precautionary Statements	
P261 - Avoid breathing dust/fumes/gas/mist/vapours/spray P272 - Contaminated work clothing should not be allowed out of the work place P273 - Avoid release to the environment P280 - Wear protective gloves/clothing/eye-protection/face protection P301/P310 - Immediately call a poison centre or doctor P302/P352 - IF ON SKIN - wash with plenty of water P331 - Do NOT induce vomiting P333/P313 - IF SKIN irritation occurs - Get medical advice/attention P363 - Wash contaminated clothing before reuse P305/P351/P338 - IF IN EYES - Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P391 - Collect spillage	
Supplementary Statements	
P405 - Store locked up. P501 - Dispose of contents/container in accordance with local/regional/national /international regulations. Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.	
2.3 Other Hazards	
PBT or vPvB according to Annex XIII	No additional data
Adverse physio-chemical properties	All essential oils are highly concentrated so have strong aromas and colour that can stain.
Adverse effects on human health	Turmeric root oil contains over 11% Hydrocarbons (15%). Emergency treatment for those who accidently swallow oils in this category is to seek medical attention immediately and transport sitting in a half-upright position.

03. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Composition
The substance has a natural variability in its composition.
Tumerone CAS: 852508-15-4

Classification:
- Not classified

ar-Tumerone
CAS: 532-65-0
Classification:
- Skin Sens. 2 – H317
- Eye Irrit. 2- H319
- Aquatic Chronic 2 – H411

β-Sesquiphellandrene
CAS: 20307-83-9
Classification:
- Not classified

β-Curcumene
CAS: 451-56-9
Classification:
- Not classified

α-Phellandrene
CAS: 99-83-2
Classification:
- Flam. Liq. 3 – H226
- Asp. Tox. 1 – H304

Elemicin
CAS: 487-11-6
Classification:
- Not Classified

Caryophyllene Oxide
CAS: 1139-30-6
Classification:
- AQUATIC Chronic 2 – H411

P-Cymene
CAS: 99-87-6
Classification:
- Flam Liq. 3, H226
- Asp. Tox. 1, H304
- Skin Irrit. 2, H315
- Eye Irrit. 2, H319
- STOT SE 3, H335 (lung, oral)
- Repr. 2, H361(oral)
- Aquatic Chronic 2, H411

Zingiberene
CAS: 495-60-3
Classification:
- Asp. Tox. 1, H304
- Skin Irrit.2, H315

- Skin Sens. 1, H317
- Eye Irrit. 2, H319
- Aquatic Chronic 2, H411

β-Bisabolene
CAS: 495-61-4
Classification:
- Asp. Tox. 1, H304
- Skin Irrit. 2, H315
- Skin Sens.1, H317

β-Caryophyllene
CAS: 87-44-5
Classification:
- Asp. Tox. 1, H304
- Skin Sens. 1B, H317

α-Cadinene
CAS: 24406-05-1
Classification:
- Not classified

04. FIRST AID MEASURES

4.1 Description of first aid measures	
Inhalation	Remove to fresh air and remain in a position which is comfortable for breathing. Seek medical attention.
Ingestion	Do NOT induce vomiting. NEVER give liquid to an unconscious person. Ingestion may cause nausea and vomiting. Immediately rinse mouth and provide fresh air. Seek medical attention.
Skin Contact	Remove contaminated clothing and wash before reuse. Wash skin thoroughly with soap and water. If discomfort occurs/continues, seek medical attention.
Eye Contact	Rinse eyes with clean water for a minimum of fifteen minutes. If safe to do so, remove to contact lenses and continue to rinse. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

No additional data

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

05. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Carbon Dioxide, Foam, Dry Chemical Powder.

Do NOT use water.

5.2	Special hazards arising from the product
	In the event of fire this product can generate oxides of carbon and other toxic gases. A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health. Do not breathe in smoke.
5.3	**Advice for firefighters**
	Wear self-contained respiratory equipment and appropriate protective clothing at all times. Do not inhale any gases or fumes which may be generated. Containers in close proximity to fire should be removed to a safe distance and the exterior of the container cooled with water.

06. ACCIDENTAL RELEASE MEASURES

6.1	Personal precautions, protective equipment and emergency procedures
	Wear protective clothing as recommended at all times. Handle the product using protective gloves resistant to the chemicals exposed. Avoid contact with skin and inhalation of its vapours. Maintain adequate ventilation in the working area after spilling.
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.**
	Cover with an inert, inorganic, non-combustible absorbent material (e.g., sand, vermiculite). Place in covered containers. Avoid open flames or sources of ignition. Ventilate area and wash spill site after material pickup is complete. Dispose according to local and national guidance.
6.4	**Reference to other sections**
	Section 13

07. HANDLING AND STORAGE

7.1	Precautions for safe handling
	Adhere to all good health, safety and hygiene practices. If handling large/heavy packages or drums, ensure the use of suitable mechanical equipment at all times. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Wear personal protective equipment. Do not breathe vapours or spray mist. Use only in area provided with adequate ventilation. Do not eat, drink or smoke whilst handling this product.
7.2	**Conditions for safe storage, including any incompatibilities**
	Store In a cool, dry, well-ventilated area. Protect from freezing, heat and light including sunlight. Protect from all potential sources of ignition. Keep all containers tightly sealed when not in use.

7.3 Specific end use(s)
No additional data

08. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters
No additional data

8.2 Exposure controls
Protective Equipment
  

Process Conditions	No additional data
Engineering Measures	Install sufficient ventilation across all areas. Install readily available eyewash stations and safety showers.
Respiratory Equipment	In the event of airborne contamination or ventilation failure ensure the use of suitable respiratory equipment/ protection.
Hand Protection	Wear appropriate protective chemically resistant gloves which comply with EN374.
Eye Protection	Wear appropriate protective safety goggles which comply with EN166.
Other Protection	No additional data
Hygiene Measures	Good hygiene practices are always recommended, especially when handling oils, chemicals or any other similar type of material.
Personal Protection	No additional data
Skin Protection	Wear appropriate protective chemically resistant clothing to prevent any potential skin contact with this product.
Environmental Exposure Controls	Do not allow entry into drains, water courses or onto the ground.

09. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties	
Appearance	Clear, mobile liquid
Colour	Reddish yellow

Odour	Characteristic
Relative Density	0.926 @25°C
Flash Point (°C)	121°C
Refractive Index	~1.507 @20°C
Melting Point (°C)	No additional data
Boiling Point (°C)	@91 992Pa: ≥228 to ≤232°C
Vapour Pressure	0.711Pa @30°C
Solubility in Water @20°C	Insoluble
Auto-ignition temperature (°C)	No additional data

9.2 Other information

Freezing Point: -39°C

10. STABILITY AND REACTIVITY

10.1 Reactivity

Expected to remain stable under recommended storage conditions.

10.2 Chemical stability

Expected to remain stable under recommended storage conditions.

10.3 Possible hazardous reactions

None under normal conditions

10.4 Conditions to Avoid

Avoid Heat, flames, any/all potential sources of ignition
Protect from moisture

10.5 Incompatible materials

Strong Acids, Alkalis, Oxidising Agents

10.6 Hazardous Decomposition Products

In the event of fire, the product may generate oxides of carbon and other toxic gases.

11. TOXOLOGICAL INFORMATION

11.1 Information on toxicological effects	
Acute Toxicity	Oral: LD50 (rat) - >300 - <2000 mg/kg bw – Category 5 (unclassified) Inhalation: No study available Skin: No study available Eye irritation: No prediction can be made (OECD 491 – SIRC cell line) Skin Irritation: Considered non-corrosive (in-vitro skin corrosion test – OECD 430) Skin Sensitivity: Classified as 'Low Reactivity' or predicts as 'Positive' (OECD TG 442C) Mutagenicity/Carcinogenicity: Classified non-mutagenic (OECD 471) Fertility/Reproduction: No study available ****historical data***
Skin corrosion / irritation	See above
Serious eye damage / irritation	See above
Respiratory or skin sensitisation	See above
Germ Cell Mutagenicity	See above
Carcinogenicity	See above
Reproductive toxicity	See above
STOT-single exposure	See above
STOT-repeated exposure	See above
Aspiration hazard	See above
Photo-toxicity	See above
Other Information	See above

12. ECOLOGICAL INFORMATION

12.1 Toxicity
Fish: No study available Algae: (Pseudokirchneriella subcapitata) – 72hr EC50 0.08 - 0.16 mg/L Aquatic invertebrates: (Daphnia magna) – 48hr EC50 - 21.94 mg/L Microorganisms: No study available Terrestrial arthropods: No study available

12.2	**Persistence & degradability**
	Considered readily biodegradable
12.3	**Bioaccumulation Potential**
	No additional data
12.4	**Mobility in soil**
	No additional data
12.5	**Results of PBT and vPvB Assessment**
	No additional data
12.6	**Other adverse effects**
	No additional data

13. DISPOSAL CONSIDERATIONS

13.1	**Waste treatment methods**
	Always dispose of this product in accordance with local and national regulations. Do not allow entry into drains or waterways. Do not contaminate the ground or water with waste. Do not dispose of waste into the environment. Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals. Recycling is always preferable to disposal. When containers have been fully emptied, ensure the labelling remains.

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**	
	Not regulated	
14.3	**Transport hazard class(es)**	
	Not regulated	
14.4	**Packing group**	

	Not regulated
14.5	**Environmental hazards**
	See Section 2
14.6	**Special precautions for user**
	Details throughout document: 6, 7, 8
14.7	**Transport in bulk according to Annex II of MARPOL73/78 and the IBC code**
	Not regulated

15. REGULATORY INFORMATION

15.1	**Safety, health and environmental regulations/legislation specific for the substance or mixture**
	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No 716)
15.2	**Chemical safety assessment**
	No additional data

16. OTHER INFORMATION

Hazard Statements in Full	-
Rev No	1

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