SAFETY DATA SHEET

REVISION: 10.06.2024

In accordance with GB REACH UK SI 2020 No. 1577

1 Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Identifier:

Trade Name	**TURMERIC OIL**
INCI Name	***CURCUMA LONGA ROOT OIL***
EINECS CAS Number	84775-52-0
EC Number	283-882-1

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against:

Product Uses	Fragrances, Cosmetics, Professional Use Only, Food use.

1.3 Details of the Supplier of the Safety Data Sheet:

Company Name	Purple Flame Aromatherapy Ltd
Company Address	Unit 1 Holman Way, Nuneaton, Warwickshire, CV11 4PN
Telephone Number	01676 542542
Email Address	info@purpleflame.co.uk

2 Hazards Identification

2.1 Classification of the Substance or Mixture:

Classification Under GB GHS UK SI 2020 No. 1567:

Class and Category of Danger	Eye Damage/Irritation Category 2.
	Sensitisation – Skin Category 1.
	Hazardous to the Aquatic Environment – Long-term Hazard Category 2.
	H317, May cause an allergic skin reaction.
	H319, Causes serious eye irritation.
	H411, Toxic to aquatic life with long lasting effects.

2.2 Label Elements:

Classification Under GB GHS UK SI 2020 No. 1567:

Signal Word	Warning.
M Factor	None.
Supplemental Information	None.

Hazard Statements:

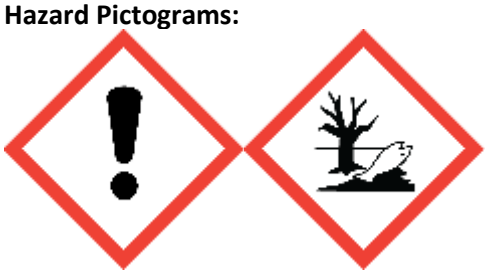
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

Precautionary Statements:

P261	Avoid breathing vapours/spray.
P264	Wash hands and exposed skin thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P501	Dispose of contents/container to approved disposal site, in accordance with local regulations.

Hazard Pictograms:



2.3 Other Hazards:

Hydrocarbon Concentration	6.7800%

3 Composition/Information on Ingredients

3.1 Substances:

Product Identifier	TURMERIC OIL
CAS Number	84775-52-0

Contains:

Chemical Name	Identification Number(s)	GB GHS UK SI 2020 No. 1567	Quantity
(S)-ar-Turmerone	CAS: 532-65-0 EC: 664-010-2	Skin Sens. 1; Aquatic Chronic 2 H317; H411	20-<50%
alpha-Zingiberene	CAS: 495-60-3	Skin Irrit. 2; Eye Irrit. 2; Skin Sens. 1B; Aquatic Chronic 3 H315; H317; H319; H412	5-<10%
p-Cymene	CAS: 99-87-6 EC: 202-796-7	Flam. Liq. 3; Acute Tox. 3; Repr. 2; Asp. Tox. 1; Aquatic Chronic 2 H226; H304; H331; H361; H411	1-<5%
alpha-Phellandrene	CAS: 99-83-2 EC: 202-792-5	Flam. Liq. 3; Asp. Tox. 1; Aquatic Acute 1; Aquatic Chronic 1 H226; H304; H410	1-<5%
l-.β.-Bisabolene	CAS: 495-61-4	Acute Tox. 4; Skin Irrit. 2; Skin Sens. 1B; Asp. Tox. 1; Aquatic Chronic 2 H304; H315; H317; H332; H411	1-<5%
Eucalyptol	CAS: 470-82-6 EC: 207-431-5	Flam. Liq. 3; Skin Sens. 1B H226; H317	1-<5%
beta-Caryophyllene	CAS: 87-44-5 EC: 201-746-1	Skin Sens. 1B; Asp. Tox. 1 H304; H317	1-<5%
Terpinolene	CAS: 586-62-9 EC: 209-578-0	Flam. Liq. 3; Skin Sens. 1B; Asp. Tox. 1; Aquatic Acute 1; Aquatic Chronic 1 H226; H304; H317; H410	0.1-<1%

p-Mentha-1,3-diene	CAS: 99-86-5 EC: 202-795-1	Flam. Liq. 3; Acute Tox. 4; Skin Sens. 1; Asp. Tox. 1; Aquatic Chronic 2 H226; H302; H304; H317; H411	0.1-<1%
d-Limonene	CAS: 5989-27-5 EC: 227-813-5	Flam. Liq. 3; Skin Irrit. 2; Skin Sens. 1B; Asp. Tox. 1; Aquatic Acute 1; Aquatic Chronic 1 H226; H304; H315; H317; H410	0.1-<1%
alpha-Pinene	CAS: 80-56-8 EC: 201-291-9	Flam. Liq. 3; Acute Tox. 4; Skin Irrit. 2; Skin Sens. 1B; Asp. Tox. 1; Aquatic Acute 1; Aquatic Chronic 1 H226; H302; H304; H315; H317; H410	0.1-<1%
p-Mentha-1,4-diene	CAS: 99-85-4 EC: 202-794-6	Flam. Liq. 3; Repr. 2; Asp. Tox. 1; Aquatic Chronic 2 H226; H304; H361; H411	0.1-<1%
Thymol	CAS: 89-83-8 EC: 201-944-8	Acute Tox. 4; Skin Corr. 1B; Eye Dam. 1; Aquatic Chronic 2 H302; H314; H411	0.1-<1%

4 First Aid Measures

4.1 Description of First Aid Measures:

Inhalation	Remove from exposure area to fresh air, keep at rest, and obtain medical attention.
Eye Exposure	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Skin Exposure	IF ON SKIN: Wash with plenty of soap and water.
Ingestion	Rinse mouth with water and obtain medical attention.

4.2 Most Important Symptoms and Effects, both Acute and Delayed:

Symptoms and Effects	May cause an allergic skin reaction. Causes serious eye irritation.

4.3 Indication of Immediate Medical Attention and Special Treatment Needed:

Notes for Doctor	None expected, see Section 4.1 for further information.

5 Fire-fighting Measures

5.1 Extinguishing Media:

Suitable Media	Carbon dioxide (CO2), dry chemical, foam.

5.2 Special Hazards Arising from the Product:

In Case of Fire, may be Liberated	Carbon monoxide (CO), Unidentified organic compounds.

5.3 Advice for Fire-fighters:

Protective Equipment	In case of insufficient ventilation, wear suitable respiratory equipment.

6 Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Personal Precautions	Avoid inhalation. Avoid contact with skin and eyes. See protective measures under sections 7 and 8.

6.2 Environmental Precautions:

Environmental Precautions	Keep away from drains, surface and ground water, and soil.

6.3 Methods and Material for Containment and Cleaning Up:

Methods for Cleaning Up	Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. Contain spillage immediately by use of sand or inert powder. Dispose of according to local regulations.

6.4 Reference to Other Sections:

Reference to Other Sections	Also refer to sections 8 and 13.

7 Handling and Storage

7.1 Precautions for Safe Handling:

Handling	Keep away from heat, sparks, open flames, and hot surfaces. – No smoking. Use personal protective equipment as required. Use in accordance with good manufacturing and industrial hygiene practices. Use in areas with adequate ventilation. do not eat, drink, or smoke when using this product.

7.2 Conditions for Safe Storage, including any Incompatibilities:

Conditions for Safe Storage	Store in a well-ventilated place. Keep container tightly closed. Keep cool. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. take precautionary measures against static discharge.

7.3 Specific End Use(s):

Fragrances, Cosmetics, Professional Use Only, Food Use	Use in accordance with good manufacturing and industrial hygiene practices.

8 Exposure Controls/Personal Protection

8.1 Control Parameters:

Workplace Exposure Limits	Not applicable.

8.2 Exposure Controls:

Eye/Skin Protection	Wear protective gloves/eye protection/face protection.
Respiratory Protection	Under normal conditions of use and where adequate ventilation is available to prevent build up of excessive vapour, this material should not require special engineering controls. However, in conditions of high or prolonged use, or high temperature or other conditions which increase exposure, the following engineering controls can be used to minimise exposure to personnel: a) Increase ventilation of the area with local exhaust ventilation. b) Personnel can use an approved, appropriately fitted respirator with organic vapour cartridge or canisters and particulate filters. c) Use closed systems for transferring and processing this material. Also refer to Sections 2 and 7.

9 Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties:

Appearance	Oily liquid, dark yellow to dark reddish brown.
Odour	Characteristic.
Odour Threshold	Not determined.
pH	Not determined.
Melting Point/Freezing Point	Not determined.
Initial Boiling Point/Range	Not determined.
Flash Point	132°C
Evaporation Rate	Not determined.
Flammability (Solid, Gas)	Not determined.
Upper/Lower Flammability or Explosive Limits	Product does not present an explosion hazard.
Vapour Pressure	Not determined.
Vapour Density	Not determined.
Specific Gravity at 20°C	0.9010 to 0.9710
Solubility(ies)	Insoluble in water.
Partition Coefficient: n-octanol/ water	Not determined.
Auto-ignition Temperature	Not determined.
Decomposition Temperature	Not determined.
Viscosity	Not determined.
Explosive Properties	Not expected.
Oxidising Properties	Not expected.

9.2 Other Information:

Other Information	None available.

10 Stability and Reactivity

10.1 Reactivity:

Reactivity	Presents no significant reactivity hazard, by itself or in contact with water.

10.2 Chemical Stability:

Chemical Stability	Good stability under normal storage conditions.

10.3 Possibility of Hazardous Reactions:

Possibility of Hazardous Reactions	Not expected under normal conditions of use.

10.4 Conditions to Avoid:

Conditions to Avoid	Avoid extreme heat.

10.5 Incompatible Materials:

Materials to Avoid	Avoid contact with strong acids, alkalis, or oxidising agents.

10.6 Hazardous Decomposition Products:

Hazardous Decomposition Products	Not expected.

11 Toxicological Information

11.1 Information on Toxicological Effects:

Acute Toxicity	Based on available data the classification criteria are not met.
Acute Toxicity Oral	>5000
Acute Toxicity Dermal	Not applicable.
Acute Toxicity Inhalation	Not available.
Skin Corrosion/Irritation	Based on available data the classification criteria are not met.
Serious Eye Damage/Irritation	Eye Damage/Irritation Category 2.
Respiratory or Skin Sensitisation	Sensitisation - Skin Category 1.
Germ Cell Mutagenicity	Based on available data the classification criteria are not met.
Carcinogenicity	Based on available data the classification criteria are not met.
Reproductive Toxicity	Based on available data the classification criteria are not met.
STOT-single Exposure	Based on available data the classification criteria are not met.
STOT-repeated Exposure	Based on available data the classification criteria are not met.
Aspiration Hazard	Based on available data the classification criteria are not met.

Information about Hazardous Ingredients in the Mixture:

Ingredient	Identification Number(s)	LD50/ATE Oral	LD50/ATE Dermal	LC50/ATE Inhalation	LC50 Route
l-.β.-Bisabolene	CAS: 495-61-4	Not available	Not available	1.5	Dust/mist mg/l
p-Cymene	CAS: 99-87-6 EC: 202-796-7	4750	Not available	9.7	Vapour mg/l

Refer to Sections 2 and 3 for additional information.

12 Ecological Information

12.1 Toxicity:

Toxicity	Toxic to aquatic life with long lasting effects.

12.2 Persistence and Degradability:

Persistence and Degradability	Not available.

12.3 Bioaccumulation Potential:

Bioaccumulation Potential	Not available.

12.4 Mobility in Soil:

Mobility in Soil	Not available.

12.5 Results of PBT and vPvB Assessment:

PBT and vPvB	This substance does not meet the PBT/vPvB criteria of GB REACH UK SI 2020 No. 1577.

12.6 Other Adverse Effects:

Other Adverse Effects	Not available.

13 Disposal Considerations

13.1 Waste Treatment Methods:

Recommendation	Dispose of in accordance with local regulations. Avoid disposing into drainage systems and into the environment. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14 Transport Information

14.1 UN Number:

UN Model Regulations	UN3082
IMDG	UN3082
ADR, RID, ADN	UN3082
ICAO TI	UN3082

14.2 UN Proper Shipping Name:

UN Model Regulations	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((S)-ar-Turmerone, alpha-Phellandrene)
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((S)-ar-Turmerone, alpha-Phellandrene) MARINE POLLUTANT
ADR, RID, ADN	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((S)-ar-Turmerone, alpha-Phellandrene)
ICAO TI	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((S)-ar-Turmerone, alpha-Phellandrene)

14.3 Transport Hazard Class(es):

UN Model Regulations	9
IMDG	9
ADR, RID, ADN	9
ICAO TI	9

14.4 Packing Group:

UN Model Regulations	III
IMDG	III
ADR, RID, ADN	III
ICAO TI	III

14.5 Environmental Hazards:

Environmental Hazards	This is classified as an environmentally hazardous substance under the UN Model Regulations. This is classified as a Marine Pollutant under the IMDG Code.

14.6 Special Precautions for User:

Special Precautions for User	None additional.

14.7 Transport in Bulk according to Annex II of MARPOL73/78 and the IBC Code:

Transport in Bulk	Not applicable.

15 Regulatory Information

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture:

Regulations/Legislation	None additional.

15.2 Chemical Safety Assessment:

Chemical Safety Assessment	A Chemical Safety Assessment has not been carried out for this product.

16 Other Information

Concentration % Limits	EDI 2=23.35% SS 1=2.86% EH C2(GB)=37.04% EH C3(GB)=3.67% EH C4(GB)=51.65%
Total Fractional Values	EDI 2=4.28 SS 1=35.00 EH C2(GB)=2.70 EH C3(GB)=27.27 EH C4(GB)=1.94

16.1 Key to Abbreviations:

Acute Tox. 3	Acute Toxicity – Inhalation Category 3.
Acute Tox. 4	Acute Toxicity – Inhalation Category 4.
Acute Tox. 4	Acute Toxicity – Oral Category 4.
Aquatic Acute 1	Hazardous to the Aquatic Environment – Acute Hazard Category 1.
Aquatic Chronic 1	Hazardous to the Aquatic Environment – Long-term Hazard Category 1.
Aquatic Chronic 2	Hazardous to the Aquatic Environment – Long-term Hazard Category 2.
Aquatic Chronic 3	Hazardous to the Aquatic Environment – Long-term Hazard Category 3.
Asp. Tox. 1	Aspiration Hazard Category 1.
Eye Dam. 1	Eye Damage/Irritation Category 1.
Eye Irrit. 2	Eye Damage/Irritation Category 2.
Flam. Liq. 3	Flammable Liquid, Hazard Category 3.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H361	Suspected of damaging fertility or the unborn child (exposure route).
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
P202	Do not handle until all safety precaution have been read and understood.
P210	Keep away from heat, sparks, open flames, and hot surfaces. – No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical, ventilating and lighting equipment.
P242	Use only non-sparking tools.

P243	Take precautionary measures against static discharge.
P260	Do not breather vapour or dust.
P261	Avoid breathing vapours/spray.
P264	Wash hands and 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/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.
P301+P312	IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.
P301+P330+P331	If swallowed: Rinse mouth. Do not induce vomiting.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353	IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P310	Immediately call a POISON CENTRE or doctor/physician.
P311	Call a POISON CENTRE or doctor/physician.
P312	Call a POISON CENTRE or doctor/physician if you feel unwell.
P330	Rinse mouth.
P331	Do not induce vomiting.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362	Take off contaminated clothing and wash it before reuse.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use Carbon dioxide, dry chemical, foam for extinction.
P391	Collect spillage.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to approved disposal site, in accordance with local regulations.
Repr. 2	Toxic to Reproduction Category 2.
Skin Corr. 1B	Skin Corrosion/Irritation category 1B.
Skin Irrit. 2	Skin Corrosion/Irritation category 2.
Skin Sens. 1	Sensitisation – Skin Category 1.
Skin Sens. 1B	Sensitisation – Skin Category 1B.

WARNING/DISCLAIMER:

The information is this Safety Data Sheet is to the best of our knowledge true and accurate but all data, instructions, recommendations, and/or suggestions are made without guarantee.