



THE OIL FAMILY

## Material Safety Data Sheet



EU Regulation: 1907/2006

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

<b>1.1 PRODUCT IDENTIFICATION</b>					
<b>PRODUCT NAME</b>	TUMERIC (CURCUMA), ESSENTIAL				
<b>BIOLOGICAL DEFINITION</b>	Curcuma Longa Root Oil is the oil obtained from the root of the Turmeric, Curcuma longa L, Zingiberaceae.				
<b>INCI NAME</b>	CURCUMA LONGA ROOT				
<b>SYNONYMS &amp; TRADE NAMES</b>	-				
<b>INTERNAL PRODUCT CODE</b>	K0468				
<b>CAS-No</b>	84775-52-0	<b>EC No.</b>	283-882-1	<b>EINECS No.</b>	283-882-1
<b>1.2 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET</b>					
<b>COMPANY ADDRESS</b>	O&3 Unit 2, Athelstan Business Park, Hanwell Lane, Hutton Conyers, Ripon, HG4 5BF, England.				
<b>EMAIL</b>	THOMASKERFOOT@OAND3.COM				
<b>1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET</b>					
<b>EMERGENCY CONTACTS</b>	MRS. ELEANOR WADE (07968 200167)				

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<b>SECTION 2: HAZARDS IDENTIFICATION</b>	
<b>2.1</b> <b>CLASSIFICATION OF THE SUBSTANCE OR MIXTURE</b>	THE FULL TEXT FOR ALL HAZARD STATEMENTS IS DISPLAYED IN SECTION 16.
<b>CLASSIFICATION (67/548/EEC)</b>	THE FULL TEXT FOR ALL R-PHRASES AND HAZARD STATEMENTS ARE DISPLAYED IN SECTION 16.
<b>CLASSIFICATION (EU1272/2008)</b>	ASPIRATION TOXICITY CATEGORY 1 - (H304). ACUTE TOXICITY - ORAL CATEGORY 4 - (H302). SKIN CORROSION/IRRITATION CATEGORY 2 - (H315). SERIOUS EYE DAMAGE/EYE IRRITATION CATEGORY 2 - (H319). SKIN SENSITIZATION CATEGORY 1 - (H317). CHRONIC AQUATIC TOXICITY CATEGORY 2 - (H411).
<b>2.2</b> <b>LABEL ELEMENTS</b>	LABEL IN ACCORDANCE WITH REGULATION (EC) No 1272/2008.
<b>GHS LABEL</b>	  GHS07                      GHS08
<b>SIGNAL WORD</b>	DANGER.
<b>CONTAINS</b>	BETA-BISABOLENE, BETA-CARYOPHYLLENE.
<b>HAZARDS STATEMENT</b>	H304 MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS. H317 MAY CAUSE AN ALLERGIC SKIN REACTION. H319 CAUSES SERIOUS EYE IRRITATION. H412 HARMFUL TO AQUATIC LIFE WITH LONG-LASTING EFFECTS.
<b>PRECAUTIONARY STATEMENTS</b>	P301+P310 IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER/DOCTOR. P331 Do NOT INDUCE VOMITING. P501 DISPOSE OF CONTENTS IN ACCORDANCE WITH LOCAL, STATE OR NATIONAL LEGISLATION. P261 AVOID BREATHING DUST/FUME/GAS/MIST/VAPOURS/SPRAY. P333+P313 IF SKIN IRRITATION OR RASH OCCURS: GET MEDICAL ADVICE/ATTENTION. P362+P364 TAKE OFF CONTAMINATED CLOTHING. AND WASH IT BEFORE REUSE. P302+P352 IF ON SKIN: WASH WITH PLENTY OF WATER. P280 WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION. P305+P351+P338 IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING. P337+P313 IF EYE IRRITATION PERSISTS: GET MEDICAL ADVICE/ATTENTION. P273 AVOID RELEASE TO THE ENVIRONMENT.
<b>SUPPLEMENTARY PRECAUTIONARY STATEMENTS</b>	P264 WASH HANDS AND EXPOSED SKIN THOROUGHLY AFTER HANDLING.
SECTION 16 (OTHER INFORMATION): RISK & SAFETY PHRASES IN FULL.	
<b>2.3</b> <b>OTHER HAZARDS</b>	
<b>ADVERSE PHYSIO-CHEMICAL PROPERTIES</b>	NO DATA
<b>ADVERSE EFFECTS ON HUMAN HEALTH</b>	MAY BE HARMFUL IN CONTACT WITH SKIN.
<b>PBT OR vPvB ACCORDING TO ANNEX XIII</b>	NO DATA.
<b>SECTION 3: COMPOSITION OF INGREDIENTS</b>	
<b>3.2 MIXTURES</b>	<b>15.0- 25.0% AR-TUMERONE</b> CAS No: 532-65-0 EC No: 664-010-2 CLASSIFICATION (EC 1272/2008) SKIN SENS. 1 – H317, EYE IRRIT. 2 – H319, AQUATIC CHRONIC 2 - H411  <b>1.0 – 5.0% BETA-BISABOLENE</b> CAS No: 495-61-4 EC No: - CLASSIFICATION (EC 1272/2008) ASP. TOX. 1 – H304, SKIN IRRIT. 2 – H315, SKIN SENS. 1 – H317

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	<p><b>1.0 – 5.0% BETA-CARYOPHYLLENE</b> CAS No: 87-44-5 EC No: 201-746-1 CLASSIFICATION (EC 1272/2008) ASP. TOX. 1 – H304</p> <p><b>1.0 – 5.0% ALPHA-HUMULENE</b> CAS No: 6753-98-6 EC No: 229-816-7 CLASSIFICATION (EC 1272/2008) SKIN IRRIT. 2 – H315, EYE IRRIT. 2 – H319, STOT SE 3-H335</p> <p><b>&lt;1.0% P-CYMENE</b> CAS No: 99-87-6 EC No: 202-796-7 CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3 – H226, ASP. TOX. 1 – H304, AQUATIC CHRONIC 2 – H411</p>
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#### SECTION 4: FIRST AID MEASURES

<b>4.1</b> DESCRIPTION OF FIRST AID MEASURES	
<b>GENERAL INFORMATION</b>	ALWAYS REMOVE CONTAMINATED CLOTHING IMMEDIATELY.
<b>INHALATION</b>	GET MEDICAL ATTENTION IMMEDIATELY. REMOVE FROM EXPOSURE SITE TO FRESH AIR, KEEP AT REST, AND OBTAIN MEDICAL ATTENTION.
<b>INGESTION</b>	GET MEDICAL ATTENTION IMMEDIATELY. RINSE MOUTH WITH WATER AND OBTAIN MEDICAL ATTENTION.
<b>SKIN CONTACT</b>	REMOVE CONTAMINATED CLOTHES. WASH THOROUGHLY WITH SOAP AND WATER. CONTACT PHYSICIAN IF IRRITATION PERSISTS.
<b>EYE CONTACT</b>	FLUSH IMMEDIATELY WITH WATER FOR AT LEAST 15 MINUTES. CONTACT PHYSICIAN IF SYMPTOMS PERSIST.
<b>4.2</b> MOST IMPORTANT SYMPTOMS & EFFECTS (ACUTE & DELAYED)	INHALATION MAY CAUSE COUGHING AND DIFFICULTIES IN BREATHING. INGESTION IRRITATING TO THE RESPIRATORY TRACT AND MAY CAUSE DAMAGE TO THE CENTRAL NERVOUS SYSTEM. SKIN CONTACT TOXIC IN CONTACT WITH SKIN. EYE CONTACT MAY CAUSE EYE IRRITATION.
<b>4.3</b> INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION OR SPECIAL TREATMENT REQUIRED	NONE EXPECTED, SEE SECTION 4.1 FOR FURTHER INFORMATION.

#### SECTION 5: FIRE FIGHTING MEASURES

<b>5.1</b> EXTINGUISHING MATERIAL	FOAM, CO2, DRY CHEMICAL POWDER.
<b>5.2</b> SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE	BURNING PRODUCES IRRITATING, TOXIC AND OBNOXIOUS FUMES
<b>5.3</b> ADVICE FOR FIRE-FIGHTERS	SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS: WEAR POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS (SCBA) AND APPROPRIATE PROTECTIVE CLOTHING.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>6.1</b> PERSONAL PRECAUTIONS	ENSURE ADEQUATE VENTILATION OF THE WORKING AREA, EVACUATE PERSONNEL TO SAFE AREA, WEAR SUITABLE PROTECTIVE EQUIPMENT. NO SMOKING, SPARKS, FLAMES OR OTHER SOURCES OF IGNITION NEAR SPILLAGE. AVOID CONTACT WITH SKIN, EYES AND CLOTHING.
<b>6.2</b> ENVIRONMENTAL PRECAUTIONS	DO NOT DISCHARGE INTO DRAINS, WATER COURSES OR ONTO THE GROUND. DISPOSE OF IN LINE WITH LOCAL AUTHORITY GUIDELINES.
<b>6.3</b> METHODS & MATERIAL FOR CONTAINMENT AND 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.
<b>6.4</b> REFERENCES TO OTHER SECTIONS	REFER & CONSIDER SECTION 8. REFER & CONSIDER SECTION 13.

#### SECTION 7: HANDLING & STORAGE

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<b>7.1</b> <b>PRECAUTIONS FOR SAFE-HANDLING</b>	HANDLE IN ACCORDANCE WITH GOOD HYGIENE AND SAFETY PRACTICE. 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.
<b>7.2</b> <b>CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES</b>	KEEP THE PRODUCT CONTAINER TIGHTLY CLOSED, IN A DRY, VENTILATED AREA. KEEP AWAY FROM POTENTIAL SOURCES OF IGNITION AND PROTECTED FROM LIGHT. MAINTAIN LIMITED CONTACT WITH OXYGEN.
<b>7.3</b> <b>SPECIFIC END USE(S)</b>	NO DATA.
<b>SECTION 8: EXPOSURE CONTROLS &amp; PERSONAL PROTECTION</b>	
<b>8.1</b> <b>CONTROL PARAMETERS</b>	NO DATA.
<b>8.2</b> <b>EXPOSURE CONTROLS</b> 	
<b>EYE PROTECTION</b>	WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION.
<b>HAND PROTECTION</b>	WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION.
<b>RESPIRATORY EQUIPMENT</b>	NO DATA
<b>HYGIENE MEASURES</b>	GOOD PERSONAL HYGIENE PRACTICES ARE ALWAYS ADVISABLE, ESPECIALLY WHEN WORKING WITH CHEMICALS / OILS.
<b>ENGINEERING MEASURES</b>	NONE.
<b>SKIN PROTECTION</b>	WEAR PROTECTIVE CLOTHING TO REDUCE THE RISK OF SKIN AND EYE CONTACT.
<b>PERSONAL PROTECTION</b>	AVOID INHALATION OF THE PRODUCT. AVOID CONTACT WITH SKIN AND EYES.
<b>OTHER PROTECTION</b>	WEAR SUITABLE PROTECTION TO AVOID CONTACT WITH SKIN AND EYES. DO NOT INHALE VAPOURS.
<b>PROCESS CONDITIONS</b>	ENSURE AREA IS WELL VENTILATED. AVOID VAPOUR INHALATION. SAFETY SHOWER & EYE BATH.
<b>ENVIROMENTAL EXPOSURE CONTROLS</b>	AVOID DISCHARGING INTO DRAINAGE WATER.
<b>SECTION 9: PHYSICAL &amp; CHEMICAL PROPERTIES</b>	
<b>9.1</b> <b>PHYSICAL &amp; CHEMICAL PROPERTIES</b>	
<b>APPEARANCE</b>	CLEAR
<b>COLOUR</b>	COLOURLESS – GREENISH YELLOW
<b>ODOUR</b>	CHARACTERISTIC, CITRUS, MANDARIN
<b>RELATIVE DENSITY</b>	APPROX 0.935 @ 20 °C
<b>FLASH POINT (°C)</b>	66 °C
<b>REFRACTIVE INDEX @ 20 °C</b>	1.510 @ 20 °C
<b>SOLUBILITY IN WATER @ 20 °C</b>	INSOLUBLE IN WATER
<b>9.2</b> <b>OTHER INFORMATION</b>	NO DATA
<b>SECTION 10: STABILITY &amp; REACTIVITY</b>	
<b>10.1</b> <b>REACTIVITY</b>	NO HAZARDOUS REACTIONS IF STORED AND HANDLED AS PRESCRIBED / INDICATED.

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<b>10.2</b> <b>CHEMICAL STABILITY</b>	STABLE UNDER SUGGESTED STORAGE CONDITIONS (<15°C).
<b>10.3</b> <b>POSSIBILITY OF HAZARDOUS REACTIONS</b>	NO.
<b>10.4</b> <b>CONDITIONS TO AVOID</b>	STORAGE AT HIGH TEMPERATURES. DO NOT STORE ABOVE 15°C.
<b>10.5</b> <b>INCOMPATIBLE MATERIALS</b>	STRONG OXIDISING SUBSTANCES.
<b>10.6</b> <b>HAZARDOUS DECOMPOSITION PRODUCTS</b>	THIS PRODUCT DOES NOT DECOMPOSE UNDER NORMAL CONDITIONS. UNDER FIRE CONDITIONS THE PRODUCT WILL PRODUCE A MIXTURE OF IRRITATING FUMES & SMOKE & CARBON MONOXIDE.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 TOXICOLOGICAL EFFECTS

<b>ACUTE TOXICITY</b>	NO DAT
<b>SKIN IRRITATION</b>	NO DATA
<b>EYE DAMAGE OR IRRITATION</b>	CAUSES EYE DAMAGE
<b>RESPIRATORY OR SKIN SENSITIVITY</b>	CAUSES REACTION
<b>GERM CELL MUTAGENICITY</b>	NO DATA
<b>CARCINOGENICITY</b>	NO DATA
<b>REPRODUCTIVE TOXICITY</b>	NOT APPLICABLE.
<b>STOT – SINGLE EXPOSURE</b>	NOT APPLICABLE.
<b>STOT – REPEATED EXPOSURE</b>	NOT APPLICABLE.
<b>ASPIRATION HAZARD</b>	MAYBE FATAL IF SWALLOWED
<b>OTHER INFORMATION</b>	NO DATA.

## SECTION 12: ECOLOGICAL INFORMATION

<b>12.1</b> <b>TOXICITY</b>	HARMFUL TO AQUATIC LIFE WITH LONG-LASTING EFFECTS.
<b>12.2</b> <b>PERSISTENCE &amp; DEGRADABILITY</b>	NO DATA
<b>12.3</b> <b>BIO- ACCUMULATIVE POTENTIAL</b>	NO DATA
<b>12.4</b> <b>MOBILITY IN SOIL</b>	NO DATA.
<b>12.5</b> <b>RESULTS OF PBT &amp; VPVB ASSESSMENT</b>	NO DATA.
<b>12.6</b> <b>OTHER ADVERSE EFFECTS</b>	DO NOT ALLOW PRODUCT TO ENTER STREAMS, SEWERS OR OTHER WATERWAYS.

## SECTION 13: DISPOSAL INFORMATION

<b>13.1</b> <b>WASTE TREATMENT METHODS</b>	ALWAYS RECOVER SPILLED PRODUCT. DISCARD WASTE MATERIAL WITH AUTHORIZED WASTE MANAGEMENT SERVICES. ACT IN ACCORDANCE WITH LOCAL & NATIONAL WASTE REGULATIONS.
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## SECTION 14: TRANSPORT INFORMATION

### 14.1 TRANSPORT INFORMATION

<b>UN NUMBER</b>	ROAD: NOT LISTED RAIL: NOT LISTED AIR: NOT LISTED
14.2 UN SHIPPING NAME	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S.
14.3 TRANSPORT HAZARD CLASS(ES)	NOT LISTED
14.4 PACKING GROUP	ADR/RID/ADN PACKING GROUP III IMDG PACKING GROUP III ICAO PACKING GROUP
14.5 ENVIRONMENTAL HAZARDS	NOT A ENVIRONMENTALLY HAZARDOUS SUBSTANCE/MARINE POLLUTANT.
14.6 SPECIAL PRECAUTIONS FOR USER	NONE.
14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 & THE IBC CODE.	NO DATA.

## SECTION 15: REGULATORY INFORMATION

### 15.1 PRODUCT SPECIFIC SAFETY, HEALTH & ENVIRONMENTAL REGULATIONS & LEGISLATION

<b>EU DIRECTIVES</b>	REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 18 <sup>TH</sup> DECEMBER 2006. CONCERNING THE REGISTRATION, EVALUATION, AUTHORIZATION & RESTRICTION OF CHEMICALS (REACH), ESTABLISHING A EUROPEAN CHEMICALS AGENCY, AMENDING DIRECTIVE 1999/45/EC AND REPEALING COUNCIL REGULATION (EEC) No793/93 & COMMISSION REGULATION (EC) No1488/94 AS WELL AS COUNCIL DIRECTIVE 76/769/EEC & COMMISSION DIRECTIVE 91/155/ECC, 93/67/ECC, 93/105/EEC & 2000/21/EC (INCLUDING AMENDMENTS).
<b>STATUTORY INSTRUMENTS</b>	THE CHEMICALS (HAZARD INFORMATION & PACKAGING FOR SUPPLY REGULATIONS 2009 (S.I.2009 No 716).
<b>APPROVED CODE OF PRACTICE</b>	CLASSIFICATION & LABELLING OF SUBSTANCES & PREPARATIONS DANGEROUS FOR SUPPLY. SAFETY DATA SHEETS FOR SUBSTANCES & PREPARATIONS.
<b>GUIDANCE NOTES</b>	WORKPLACE EXPOSURE LIMITS EH40. CHIP FOR EVERYONE HSG 108.
15.2 CHEMICAL SAFETY ASSESSMENT	-

## SECTION 16: OTHER INFORMATION

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HAZARD AND/ OR PRECAUTIONARY STATEMENTS IN FULL	H226 FLAMMABLE LIQUID AND VAPOUR. H228 FLAMMABLE SOLID. H304 MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS. H315 CAUSES SKIN IRRITATION. H317 MAY CAUSE AN ALLERGIC SKIN REACTION. H319 CAUSES SERIOUS EYE IRRITATION. H400 VERY TOXIC TO AQUATIC LIFE. 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.
<b>TRAINING INSTRUCTIONS: REFER TO POSSIBLE HAZARD BEFORE USE OF THIS PRODUCT.</b>	
<b>ABBREVIATIONS &amp; ACRONYMS:</b>	
<b>MSDS</b>	MATERIAL SAFETY DATA SHEET.
<b>INCI</b>	INTERNATIONAL NOMENCLATURE OF COSMETIC INGREDIENTS.
<b>CAS</b>	CHEMICAL ABSTRACT SERVICE.
<b>IMDG</b>	INTERNATIONAL MARITIME CODE FOR DANGEROUS GOODS.
<b>ADR</b>	ACCORD EUROPEAN SUR LE TRANSPORT DES MARCHANDISES DANGEREUSES PAR ROUTE (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD).
<b>RID</b>	INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY RAIL.
<b>ICAO</b>	INTERNATIONAL CIVIL AVIATION ORGANIZATION.
<b>ADN</b>	INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS.
<b>GHS</b>	GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION & LABELLING OF CHEMICALS.
<b>TREM CARD</b>	TRANSPORT EMERGENCY CARD.
<b>STOT</b>	SPECIFIC TARGET ORGAN TOXICITY.

#### DOCUMENTATION REVISION

DATE	CHANGE DESCRIPTION
10 <sup>TH</sup> APRIL 2018	DATA LAUNCH

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