

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## CURCUMA RHIZOME OIL BIO-MADA

Version 2

Revision Date 06.05.2020

Print Date:07.12.2020

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

#### 1.1 Product identifier

Commercial Product Name : CURCUMA RHIZOME OIL -MADA  
Material number : 104448  
CAS-No. : 84775-52-0, 8024-37-1  
EC-No. : 283-882-1

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Fragrance

#### 1.3 Details of the supplier of the safety data sheet

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Skin sensitisation, Category 1 H317  
Long-term (chronic) aquatic hazard, Category 3 H412

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)



Signal word : Warning

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Hazard statements	: H317 H412	May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.
Precautionary statements	: <b>Prevention:</b> P272 P273 P280  <b>Response:</b> P302 + P352 P333 + P313 P362 + P364	Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.  IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/ attention. Take off contaminated clothing and wash it before reuse.
Contains	: CINEOLE.	

### 2.3 Other hazards

No data available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Chemical characterization	: Curcuma longa, ext.
CAS-No.	: 84775-52-0, 8024-37-1
EINECS-No. / ELINCS No.	: 283-882-1

### 3.2 Mixtures

#### Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Cineole	470-82-6 207-431-5	Flam. Liq : 3 ; E226 Skin Sens : 1 ; E317	>= 5 < 10
2-Methyl-6-(4-methylcyclo-3-en-1-ylidene)hept-2-ene	495-61- 495-62-5 207-805-8	Skin Irrit : 2 ; E315 Skin Sens : 1B, E317 Asp. Tox : 1 ; E304	>= 0,1 < 1
Caryophyllene	87-44-5 201-746-1	Asp. Tox : 1 ; E304 Skin Sens : 1B ; E317 Aquatic Chronic : 4, E413	>= 0,1 < 1
(R)-p-Mentha-1,8-diene	5989-27-5 227-813-5	Asp. Tox.: 1; E304 Aquatic Chronic: 1; E410 Aquatic Acute: 1; E400 Skin Sens.: 1B; E317 Skin Irrit.: 2; E315 Flam. Liq.: 3; E226	>= 0,1 < 1
Pin-2(3)-ene	80-56-8 201-291-9	Flam. Liq.: 3; E226 Skin Irrit.: 2; E315 Skin Sens.: 1B; E317 Asp. Tox.: 1; E304	>= 0,1 < 1

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p-Cymene	99-87-6 25155-15-1 202-796-7 246-674-1	Asp. Tox.: 1; E304 Aquatic Chronic: 2; E411 Flam. Liq.: 3; E226	$\geq 0,1 < 1$
Camphene	79-92-5 201-234-8	Flam. Sol.: 2; E228 Eye Irrit.: 2; E319 Aquatic Acute: 1; E400 Aquatic Chronic: 1; E410	$\geq 0,1 < 1$
Pin-2(10)-ene	127-91-3 204-872-5	Flam. Liq.: 3; E226 Skin Irrit.: 2; E315 Skin Sens.: 1B; E317 Asp. Tox.: 1; E304	$\geq 0,1 < 1$

For the full text of the E-Statements mentioned in this Section, see Section 16.

Acute aquatic toxicity:

- 1)  $0,1 < L(E)C50 \leq 1 \text{ mg/l}$
- 2)  $0,01 < L(E)C50 \leq 0,1 \text{ mg/l}$

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

General advice	: Move out of dangerous area. Never give anything by mouth to an unconscious person.
Inhalation	: Move to fresh air.
Skin contact	: Take off all contaminated clothing immediately. If skin irritation persists, call a physician. Wash off immediately with plenty of water for at least 15 minutes.
Eye contact	: Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. Remove contact lenses.
Ingestion	: Clean mouth with water and drink afterwards plenty of water. Prevent vomiting if possible. If a person vomits when lying on his back, place him in the recovery position. Never give anything by mouth to an unconscious person.

### 4.2 Most important symptoms and effects, both acute and delayed

No data available

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

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### SECTION 5: FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media which shall not be used for safety reasons : High volume water jet

#### 5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not use a solid water stream as it may scatter and spread fire.

#### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : In the event of fire and/or explosion do not breathe fumes.  
Use water spray to cool unopened containers.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Ensure adequate ventilation.  
Use personal protective equipment.

#### 6.2 Environmental precautions

Environmental precautions : Avoid subsoil penetration.  
If the product contaminates rivers and lakes or drains inform respective authorities.

#### 6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Dam up.  
Wipe up with absorbent material (e.g. cloth, fleece).

Additional advice : Local authorities should be advised if significant spillages cannot be contained.  
Suppress (knock down) gases/vapours/mists with a water spray jet.

#### 6.4 Reference to other sections

For personal protection see section 8.

### SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8.



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Advice on protection against fire and explosion : When using do not smoke.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container.  
Keep container tightly closed in a dry and well-ventilated place.  
To maintain product quality, do not store in heat or direct sunlight.

Advice on common storage : No special restrictions on storage with other products.

Other data : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Fragrance

## SECTION 8: EXPOSURE CONTROLS/PERSONAL

### PROTECTION 8.1 Control parameters

#### Components with workplace control parameters, Germany:

Components	CAS-No.	Control parameters	Update	Basis
(R)-p-Mentha-1,8-diene	5989-27-5	AGW 5 ppm	04 2013	TRGS 900

#### Components with workplace control parameters, United Kingdom:

Components	CAS-No.	Control parameters	Update	Basis
Bornan-2-one	76-22-2	STEL 3 ppm TWA 2 ppm	12 2011 12 2011	EE40 WEL EE40 WEL

#### Components with workplace control parameters, Spain:

Components	CAS-No.	Control parameters	Update	Basis
Bornan-2-one	76-22-2	VLA-EC 3 ppm VLA-ED 2 ppm	2012 2012	VLA (ES) VLA (ES)
(R)-p-Mentha-1,8-diene	5989-27-5	TWA 30 ppm	2018	VLA (ES) VLA (ES)
Pin-2(3)-ene	80-56-8	VLA-ED 20 ppm	2012	VLA (ES)
Pin-2(10)-ene	127-91-3	VLA-ED 20 ppm	2012	VLA (ES)

#### Components with workplace control parameters, France:

Components	CAS-No.	Control parameters	Update	Basis
Bornan-2-one	76-22-2	VME 2 ppm	07 2012	INRS (FR)

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### Components with workplace control parameters, Poland:

Components	CAS-No.	Control parameters	Update	Basis
Bornan-2-one	76-22-2	NDS 12 mg/m <sup>3</sup> NDSch 18 mg/m <sup>3</sup>	12 2011 12 2011	POL MAC POL MAC

### 8.2 Exposure controls

#### Engineering measures

none

#### Personal protective equipment

- Respiratory protection : No personal respiratory protective equipment normally required.  
: Wear chemicals-resistant gloves, e.g. safety gloves of chloroprene
- Hand protection : Level 2 or of butyl rubber Level 6.
- Eye protection : Safety glasses
- Skin and body protection : Lightweight protective clothing
- Hygiene measures : Wash hands before breaks and immediately after handling the product.
- Protective measures : When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

#### Appearance

- Form : liquid
- Colour : Yellow to green
- Odour : characteristic
- Odour Threshold : No data available

#### Safety data

- Flash point : 71 °C
- Water solubility : immiscible
- Relative density : not determined
- Bulk density :
- Relative vapour density : not determined
- Vapour pressure : 1 kPa at 50 °C  
calculated

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Melting point/freezing point

not determined

Boiling point

: not determined

Partition coefficient: n-octanol/water

: log Pow:  
not determined

pH

: Not applicable

Evaporation rate

: Lower than the evaporation rate of butyl acetate = 1

Flammability (solid, gas)

: Not applicable

Auto-ignition temperature

: The substance or mixture is not classified as self heating.

Decomposition temperature

: No data available

Oxidizing properties

: The substance or mixture is not classified as oxidizing.

Explosive properties

: Due to its structural properties, the product is not classified as explosive

Lower explosion limit

: Vapours may form explosive mixtures with air.

Upper explosion limit

: Vapours may form explosive mixtures with air.  
A final assessment of potential explosion hazards can only be made on a case-by-case basis when precise information is available on product handling, production setup and the circumstances surrounding the use of the product.

### 9.2 Other data

None.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

: No data available

### 10.2 Chemical stability

: No data available

### 10.3 Possibility of hazardous reactions

: No dangerous reaction known under conditions of normal use.

### 10.1 Conditions to avoid

: No data available

### 10.5 Incompatible materials to avoid

: No data available

### 10.6 Hazardous decomposition products

: No data available

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Acute oral toxicity

: No data available

Acute inhalation toxicity

: No data available

Acute dermal toxicity

: No data available

Repeated dose toxicity

: No data available

Acute toxicity (other routes of administration)

: No data available

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Skin irritation	: No data available
Eye irritation	: No data available
Sensitisation	: No data available
Mutagenicity	: No data available
Carcinogenicity	: No data available
Reproductive toxicity	: No data available
Teratogenicity	: No data available
Specific target organ toxicity - single exposure	: No data available
Specific target organ toxicity - repeated exposure	: No data available
Aspiration toxicity	: No data available

### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1 Toxicity

No data available

#### 12.2 Persistence and degradability

No data available

#### 12.3 Bioaccumulative potential

No data available

#### 12.1 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### 12.6 Other adverse effects

Harmful to aquatic life with long lasting effects.

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

Product	: Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.
Contaminated packaging	: Empty remaining contents. Dispose of as unused product.

### SECTION 14: TRANSPORT INFORMATION

#### 14.1 UN number

Not classified as dangerous in the meaning of transport regulations.



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### 14.2 Proper shipping name

Not classified as dangerous in the meaning of transport regulations.

### 14.3 Transport hazard class

Not classified as dangerous in the meaning of transport regulations.

### 14.1 Packing group

Not classified as dangerous in the meaning of transport regulations.

### 14.5 Environmental hazards

Not classified as dangerous in the meaning of transport regulations.

### 14.6 Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not classified as dangerous in the meaning of transport regulations.

## SECTION 15: REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National legislation

Risk classification according : Flash Point > 55 °C up to 100 °C, at 15 °C not miscible with water to BetrSichV (Germany)

Water contaminating class : WGK 2 (water endangering)  
(Germany)

### 15.2 Chemical safety assessment

No data available

## SECTION 16: OTHER INFORMATION

### Full text of H-Statements referred to under sections 2 and 3.:

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.
H413	May cause long lasting harmful effects to aquatic life.

### Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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