

## SAFETY DATA SHEET

### SECTION 1: PRODUCT / SUBSTANCE IDENTIFICATION

**1.1 PRODUCT IDENTIFIER** : Turmeric Essential Oil  
**CHEMICAL NAME** : *Curcuma longa*  
**CAS NUMBER** : 8024-37-1  
**EC NUMBER** : 283-882-1

**1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE**

Aromatic ingredient for use in cosmetics and aromatherapy.

**USES ADVISED AGAINST**

Concentrated product. Use with caution. Do not ingest as such.

**1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET**

**SUPPLIER** : Brooklyn Botany  
**ADDRESS** : 838 Walker Road, Dover, DE, 19904,  
USA  
**TELEPHONE NUMBER** : 914-940-5947

**1.4 EMERGENCY TELEPHONE NUMBER**

**24 HOUR EMERGENCY TELEPHONE NUMBER**

**USA National Poison Control Center (any day/time) 1 (412) 681-6669.**

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

#### CLASSIFICATION ACCORDING TO THE REGULATION (EC) NO 1272/2008

Flammable liquid (Category 3), H226; Aspiration hazard, Hazard Category 1; Sensitization — Skin, Hazard Category 1; Hazardous to the aquatic environment — long-term hazard, category chronic 3.

#### CLASSIFICATION ACCORDING TO THE DIRECTIVE 67/548/EEC

##### HAZARD SYMBOLS

XN : Harmful

##### RISK PHRASES

R43 : May cause sensitization by skin contact.

R52/53 : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65 : Harmful: may cause lung damage if swallowed.

### 2.2 LABEL ELEMENTS

EC Number: 283-882-1

Curcuma longa, oil



**SIGNAL WORD** : Danger

**HAZARD STATEMENTS**

- H226 : Flammable liquid and vapor
- H304 : Maybe fatal if swallowed and enter airways
- H317 : May cause an allergic skin reaction
- H412 : Harmful to aquatic life with long lasting effects.

**PRECAUTIONARY STATEMENTS**

- P210 : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P273 : Avoid release to the environment.
- P280 : Wear protective gloves/clothing/eye protection/face protection
  
- P301 + P310 : IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P302 + P352 : IF ON SKIN: Wash with plenty of soap and water.

**P331** : Do NOT induce vomiting.

**P333 + P313** : If skin irritation or rash occurs: Get medical advice/attention.

### 2.3 OTHER HAZARDS

Not available.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 SUBSTANCES

CONCENTRATION RANGE OF THE CONSTITUENT (% WEIGHT/WEIGHT)	EC NUMBER / REGISTRATION NUMBER	CAS	CHEMICAL NAME	SYMBOL(S); RISK PHRASE(S) / HAZARD CLASS AND CATEGORY CODE; HAZARD STATEMENT CODES
100%	283-882-1	8024-37-1	Curcuma longa, oil	Xn; R43-52/53-65 Flam. Liq. 3;H226- Asp. Tox. 1;H304- Skin Sens. 1;H317- Aquatic Chronic 3;H412

See section 16 for the full text of the risk phrases / Hazard statement codes declared above.

## SECTION: 4 FIRST AID MEASURES

### 4.1 DESCRIPTION OF FIRST AID MEASURES

## **CONSUMPTION**

If swallowed, rinse mouth with water.

Seek medical advice immediately and show this container or label. Do NOT induce vomiting.

## **EYE CONTACT**

First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.

## **INHALATION**

Remove person to fresh air and keep at rest.

## **SKIN CONTACT**

Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.

### **4.2 MOST IMPORTANT SYMPTOM AND EFFECTS, BOTH ACUTE AND DELAYED**

Aspiration hazard. May cause lung damage if swallowed (aspiration toxicity includes severe acute effects such as chemical pneumonia, varying degrees of pulmonary injury or death following aspiration).

May produce an allergic reaction (rash, urticarial).

Read label before use. No additional information available.

### **4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED**

Not available.

## **SECTION 5: FIRE FIGHTING MEASURES**

### **5.1 EXTINGUISHING MEDIA**

Carbon dioxide, dry chemical powder or appropriate foam. For safety reasons do not use full water jet.

### **5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE**

Not applicable

### **5.3 ADVICE FOR FIREFIGHTERS**

In case of fire in the surrounding area, follow the recommendations below:

- 1-Closed containers may build up pressure at elevated temperatures.
- 2-Avoid inhalation of fumes or vapors. Use appropriate respiratory protection.
- 3-Prevent run-off from firefighting to enter drains or water courses.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES**

Wear appropriate gloves to prevent skin exposure. Avoid contact with skin and inhalation of its vapors or smoke. Maintain adequate ventilation in the working area after spilling.

### **6.2 ENVIRONMENTAL PRECAUTIONS**

Avoid contaminating the environment via the sewers or water sources.

### **6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP**

Cover with an inert, inorganic, non-combustible absorbent material (e.g. dry-lime, sand, soda ash). Ventilate area and wash spill site after material pickup is complete.

Dispose of in accordance with current laws and regulations.

### **6.4 REFERENCE TO THE OTHER SECTIONS**

See section 13.

## **SECTION 7: HANDLING AND STORAGE**

### **7.1 PRECAUTIONS FOR SAFE HANDLING**

Keep away from food, drink and animal feeding stuffs. Do not smoke.

Avoid contact with skin and eyes.

Handle in accordance with good industrial hygiene and safety practice.

### **7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES**

Keep the product in its original container well sealed, in a dry and ventilated area, away from potential sources of ignition and protected from light. Store in accordance with local/national regulations and follow the warnings

### **7.3 SPECIFIC END USE(S)**

Not available

## **SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION**

### **8.1 CONTROL PARAMETERS**

Declaration of substances is not required.

### **8.2 EXPOSURE CONTROLS**

<b>PERSONAL PROTECTION EQUIPMENT</b>	:	Use personal protection equipment according to Directive 89/686/EEC.
<b>EYE/FACE PROTECTION</b>	:	Chemical safety goggles are recommended. Wash contaminated goggles before use.
<b>RESPIRATORY PROTECTION</b>	:	Do not induce vomiting

<b>SKIN PROTECTION</b>	:	Avoid contact with skin. Compatible chemical-resistant gloves are recommended. Wash contaminated gloves before reuse.
<b>ENGINEERING CONTROLS-VENTILATION</b>	:	The areas should where the products is handled and stored should be adequately ventilated

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

### **9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES**

<b>APPEARANCE</b>	:	LIQUID
<b>COLOR</b>	:	RANGES FROM YELLOW TO ORANGE
<b>ODOR</b>	:	WOODY
<b>DENSITY</b>	:	0.925 g/cm <sup>3</sup> (20 °C)
<b>FLASH POINT</b>	:	>61°C; >141°F
<b>ADDITIONAL INFORMATION</b>	:	Not Applicable.

## **SECTION 10: STABILITY AND REACTIVITY**

### **10.1 REACTIVITY**

Not available

### **10.2 CHEMICAL STABILITY**

Stable under normal operating conditions.

### **10.3 POSSIBILITY OF HAZARDOUS REACTIONS**

Hazardous Polymerization: It does not undergo any dangerous reactions under normal conditions

### **10.4 CONDITIONS TO AVOID**

Avoid excessive heat, sparks or open flame.

No special precautions other than good housekeeping of chemicals.

### **10.5 INCOMPATIBLE MATERIALS**

None known.

### **10.6 HAZARDOUS DECOMPOSITION PRODUCTS**

Carbon monoxide and unidentified organic compounds may be formed during combustion.

## **SECTION 11: TOXILIGICAL INFORMATION**

### **11.1 INFORMATION ON TOXICOLOGICAL EFFECTS**

#### **TOXICOLOGICAL EFFECTS**

See also sections 2 and 3.

## **SECTION 12: ECOLOGICAL INFORMATION**

<b>12.1 ACUTE AQUATIC TOXICITY</b>	: Not determined
<b>12.2 PERSISTENCE AND DEGRADIBILITY</b>	: Not available
<b>12.3 BIOCONCENTRATION FACTOR</b>	: Not determined
<b>12.4 MOBILITY IN SOIL</b>	: N/A
<b>12.5 RESULTS OF PBT AND vPvB ASSESSMENT</b>	: Not determined
<b>12.6 OTHER ADVERSE EFFECTS</b>	: Do not allow the material to enter streams, sewers, or other waterways

## SECTION 13: DISPOSAL CONSIDERATION

### 13.1 WASTE TREATMENT METHODS

#### DISPOSAL CONDITIONS

Dispose of in accordance with all state and local environmental regulations. This material and its container must be disposed of in a safe way. Do not reuse empty containers.

## SECTION 14: TRANSPORT INFORMATION

### 14.1 INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR)

UN NUMBER	:	UN 1169
PROPER SHIPPING NAME	:	EXTRACTS, AROMATIC LIQUID
PACKING GROUP	:	III
CLASS	:	3
TUNNEL RESTRICTION CODE	:	-
LABEL	:	

### 14.2 SEA TRANSPORT (IMDG)

UN NUMBER	:	UN 1169
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**PROPER SHIPPING NAME** : EXTRACTS, AROMATIC LIQUID  
**PACKING GROUP** : III  
**CLASS** : 3  
**MARINE POLLUTANT** : Yes  
**LABEL** : 

### 14.3 AIR TRANSPORT (ICAO/IATA)

**UN NUMBER** : UN 1169  
**PROPER SHIPPING NAME** : EXTRACTS, AROMATIC LIQUID  
**PACKING GROUP** : III  
**CLASS** : 3  
**LABEL** : 

### NON-BULK TRANSPORT / LIMITED AND EXCEPTED QUANTITIES

#### US DEPARTMENT OF TRANSPORTATION (DOT)

DOT NON-BULK QUANTITY LIMITS:

Flammable liquids Class 3, Packing Group III, and Combustible liquids Ground: 450 L;  
Passenger aircraft/rail: 60 L; Cargo aircraft only: 220 L

#### DOT LIMITED QUANTITIES (NOT SUBJECT TO LABELING PER 49 CFR 173.150)

Each package may not exceed 30 kg (66 pounds) gross weight.  
Ground: Inner packaging not over 5.0 L (1.3 gallons) each.  
Air: Inner packaging not over 120 mL (4 fluid oz.) each.

### **DOT MARINE POLLUTANTS (49 CFR 171.4):**

Except when all or part of the transportation is by vessel, non-bulk packages (less than or equal to 220 L / 119 gal) that are marine pollutants, are not regulated as hazardous materials when transported by motor vehicle, rail car or aircraft.

### **INTERNATIONAL TRANSPORT (ADR / IATA / IMDG)**

Excepted Quantities: Code E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

## **SECTION 15: REGULATORY INFORMATION**

### **15.1 SAFETY, HEALTH, AND INFORMATION REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE**

Substances are either included in EINECS, ELINCS, NLP inventories or exempt.

### **15.2 CHEMICAL SAFETY ASSESMENT**

Not available.

## **SECTION 16: OTHER INFORMATION**

### **TEXT OF RISK PHRASES ASSOCIATED WITH INGREDIENTS LISTED IN SECTION 3:**

<b>R43</b>	:	May cause sensitization by skin contact.
<b>R52/53</b>	:	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**R65** : Harmful: may cause lung damage if swallowed.

**TEXT OF HAZARD STATEMENT CODES IN SECTION 3:**

**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.

This material should only be used for industrial purposes. Key literature references and sources for data:

1. Council Directive 67/548/EEC of 27 June 1967 on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances.
2. Directive 1999/45/EC of the European Parliament and of the Council of 31 May 1999 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations.
3. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization 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.
4. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
5. OSHA (US) 29 CFR 1910.1200 and 49 CFR, modifying the Hazard Communication Standard and aligning it with the UN Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

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