

## SAFETY DATA SHEET

Version 1

Revision Date: January 6, 2016

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product identifiers

Product name : Tetrahydrodiferuloylmethane > 96%  
 Product Number :  
 Synonyms : 1, 7-Bis (4-hydroxy-3-methoxyphenyl)-3, 5- heptanedione  
 INCI Name : Tetrahydrodiferuloylmethane  
 Index- No. : ---  
 CAS- No. : 36062-04-1

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

Identified uses : Intended for Cosmetic ingredient

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

Company : Chanjao Longevity Co., Ltd.  
 50 Ramindra 14, Bangkok 10230 Thailand  
 Telephone : 02-002-7-002  
 Fax :

#### 1.4 Emergency telephone number

Emergency Phone # : 02-002-7-002

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

##### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):

GHS Classification	Placard	GHS Hazard
Skin irritation	---	---
Aquatic Toxic (Chronic)	---	---

GHS Hazard Phrases : ---

GHS Precaution Phrases : P280: Wear protective gloves/ clothing and eye/face protection as specified by the manufacturer/supplier or the competent authority.  
 : P273: Avoid release to the environment.

GHS Response Phrase : P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

: P310: Immediately call a doctor/physician.

: P391: Collect spillage.

**GHS Storage and Disposal Phrase**

: Please refer to section 7 for Storage and Section 13 For Disposal information.

**Route(s) of Entry**

: Inhalation: Yes; Skin: Not known; Eyes: Not known  
Ingestion: Yes Other: Not known

**Potential Health Effects  
(Acute and Chronic)**

: May causes serious eye damage  
Material may be irritating to the mucous membranes and upper respiratory tract.  
May be harmful by inhalation, ingestion or skin absorption.  
May cause skin or respiratory system irritation.

**Target Organs**

: No data available

**Signs and Symptoms of Exposure**

: To the best of our knowledge, the toxicological Properties have not been thoroughly investigated.

**Medical Conditions Generally  
Aggravated By Exposure**

: No data available

**2.2 GHS Label elements, including precautionary statements**

Pictogram ---

Signal word ---

**2.3 Hazards not otherwise classified (HNOC) or not covered by GHS**

**2.4** Repeated exposure may cause skin dryness or cracking.

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**3. COMPOSITION/ INFORMATION ON INGREDIENTS**

**3.1 Substances**

Is a standardized extract from the rhizomes of *Curcuma longa*.

Formula : C<sub>21</sub>H<sub>24</sub>O<sub>6</sub>

Molecular weight : 372.39

CAS- No. : 36062-04-1

EC- No. : ---

Index- No. : ---

Registration number : ---

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## 4. FIRST AID MEASURES

### 4.1 Description of the first aid measures

#### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### **If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### **In case of Skin contact**

Wash off with soap and plenty of water. Consult a physician.

#### **In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### **If swallowed**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/ or in section 11.

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

No data available

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## 5. FIREFIGHTING MEASURES

### 5.1 Extinguishing media

#### **Suitable extinguishing media**

Use water spray, alcohol- resistant foam, dry chemical or carbon dioxide.

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

Carbon oxides

### 5.3 Advice for fire fighters

Wear self- contained breathing apparatus for firefighting if necessary.

### 5.4 Further information

Use water spray to cool unopened containers.

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## 6. ACCIDENTAL RELEASE MEASURES

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

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

For personal protection see section 8.

### 6.2 Environment precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

### 6.4 Reference to other sections

For disposal see section 13.

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## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Use explosion-proof equipment. Keep away from sources of ignition- No smoking. Take measures to prevent the buildup of electrostatic charge. For precautions see section 2.2.

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

Store the material in tightly closed original container. Store this container in a cool, dry and well ventilated place. Protect against direct sunlight. Avoid heat, flames & other sources of ignition. Avoid contact with strong oxidizers.

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

### 8.1 Control parameters

#### Components with workplace control parameters

Component	CAS- No	Value	Control	Basis
Tetrahydrodiferuloylmethane 96%)	36062-04-1	---	---	---
	<b>Remarks</b>	Not available		

#### Biological occupational exposure limits

	CAS- No	Value	Control	Basis
	36062-04-1	---	---	---
	<b>Remarks</b>	Not available		

### Derived No Effect Level (DNEL)

Application	Exposure routes	Health effect	Values
Workers	Skin contact	Long- term systemic effects	Not available
Consumers	Ingestion	Long- term systemic effects	Not available
Consumers	Skin contact	Long- term systemic effects	Not available
Workers	Inhalation	Acute systemic effects	Not available
Workers	Inhalation	Long- term systemic effects	Not available
Consumers	Inhalation	Long- term systemic effects	Not available

### Predicted No Effect Concentration (PNEC)

Compartment	Value
Soil	Not available
Marine water	Not available
Fresh water	Not available
Marine sediment	Not available
Fresh water sediment	Not available
Onsite sewage treatment plant	Not available

#### 8.1.1 Exposure controls

##### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

##### Personal protective equipment

##### Eye/ face protection

Face shield and safety glasses. Use equipment for the eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

##### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

##### Body Protection

Impervious clothing, flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### Respiratory protection

Where risk assessments shows air- purifying respirators are appropriate use a full- face respirator with multi- purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full- face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

##### Control of environment exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

a. Appearance	: Off white to creamy white powder
b. Odor	: Not available
c. Odor Threshold	: Not available
d. pH	: Not available
e. Melting point/ freezing point	: Between 85°C and 95°C/Not available
f. Initial boiling point and boiling range	: Not available
g. Flash point	: Not available
h. Evaporation rate	: Not available
i. Flammability (Solid, gas)	: Not available
j. Upper/ lower flammability or explosive limits	: Not available
k. Vapor pressure	: Not available
l. Vapor density	: Not available
m. Relative density	: Not available
n. Water solubility	: Insoluble
o. Partition coefficient: n- octanol/ water	: Not available
p. Auto- ignition temperature	: Not available
q. Decomposition temperature	: Not available
r. Viscosity	: Not available
s. Explosive properties	: Not available
t. Oxidizing properties	: Not available

### 9.2 Other safety information

Surface tension	: Not available
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## 10. STABILITY AND REACTIVITY

10.1	Reactivity	: Stable
10.2	Chemical stability	: Stable
10.3	Possibility of hazardous reactions	: Not known
10.4	Conditions to avoid	: Do not expose to heat, light, moisture
10.5	Incompatible materials	: Strong oxidizing agents
10.6	Hazardous decomposition products	: Carbon dioxides and carbon monoxides

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## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

LD <sub>50</sub> Oral	: Not available
LD <sub>50</sub> Inhalation	: Not available
LD <sub>50</sub> Dermal	: >2000mg/kg body weight
Skin corrosion/irritation	: Non-irritant
Serious eye damage/ eye irritation	: Minimal irritant
Respiratory or skin sensitization	: Not available
Germ cell mutagenicity	: Not available

### **Carcinogenicity**

This product is or contains a component that is not classified as to its carcinogenicity based on its IARC, ACGIH, NTP or EPA classification.

**IARC:** No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**NTP:** No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.

**OSHA:** No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.

Reproductive toxicity	: Not available
Specific target organ toxicity- single exposure	: Not available
Specific target organ toxicity- repeated exposure	: Not available
Aspiration hazard	: Not available
Additional information	: Not available

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

Kidney – Irregularities – Based on human Evidence

Skin - Dermatitis – Based on human evidence

Kidney – Irregularities – Based on human evidence

Skin – Dermatitis – Based on human trails

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## **12. ECOLOGICAL INFORMATION**

<b>12.1</b>	Toxicity	: Not known
<b>12.2</b>	Toxicity to fish	: Not known
<b>12.3</b>	Toxicity to daphnia and other aquatic invertebrates	: Not known
<b>12.4</b>	Toxicity to algae	: Not known
<b>12.5</b>	Persistence and degradability	
	Biodegradability	: Not known
<b>12.6</b>	Bio accumulative potential	: Not available
<b>12.7</b>	Mobility in soil	: Not available
<b>12.8</b>	Results of PBT and vPvB assessment	: Not available
<b>12.9</b>	Other adverse effects	: Not available

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## **13. DISPOSAL CONSIDERATIONS**

### **13.1 Waste treatment methods**

Product and waste can be eliminated as a non-hazardous industrial waste according to local regulations and Federal law concerning waste elimination

**Contaminated packaging**  
Dispose of as unused product.

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#### **14. TRANSPORT INFORMATION**

Consult applicable regulations for transport information

Additional information: ---

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#### **15. REGULATORY INFORMATION**

European information

S26: In case of contact with eyes rinse, immediately with plenty of water and seek medical advice.

S36/37/38: Wear suitable protective clothing, gloves and eye face protection.

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#### **16. OTHER INFORMATION**

The information contained herein is applicable solely to **the product indicated on the document** and does not relate any other use of the substance described. Its use is intended by persons having technical skill and at their own discretion and risk.

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