



# SAFETY DATA SHEET

## INTERNATIONAL FLAVORS & FRAGRANCES

Product AQUAFLORA TOCO

Print Date 07/11/2018

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### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : AQUAFLORA TOCO  
SDS Number : 300000372086  
Product Use Description : Fragrance Ingredient

Company : IFF LMR Naturals  
Parc Industriel Les Bois de Grasse  
18-20 avenue Joseph Honoré Isnard  
06130 Grasse  
Telephone : +33492424344  
Telefax : +33493704326  
Emergency telephone number : +33 3 8073 7878

### SECTION 2 HAZARDS IDENTIFICATION

#### GHS-Classification

Acute toxicity, Category 4, Oral  
Acute toxicity, Category 4, Inhalation  
Skin irritation, Category 2  
Eye irritation, Category 2A  
Skin sensitisation, Category 1

#### GHS-Labeling

Symbol(s)



Signal word

: Warning

Hazard statements

: H302 + H332: Harmful if swallowed or if inhaled.  
H315: Causes skin irritation.

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H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

Precautionary statements : P280: Wear protective gloves/ eye protection/ face protection.  
P301 + P312 + P330: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.  
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.

### Carcinogenicity:

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

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous components

Component	CAS-No.
4,7-Methano-1H-indene-5-acetaldehyde, octahydro-, 4,7-Methano-1H-indene-5-carboxaldehyde, octahydro-6-methyl-	1339119-15-1, 1338815-87-4
2H-1-Benzopyran-6-ol, 3,4-dihydro-2,5,7,8-tetramethyl-2-(4,8,12-trimethyltridecyl)-	10191-41-0
Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, methyl ester	6386-38-5

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### **SECTION 4. FIRST AID MEASURES**

#### **First aid procedures**

- Inhalation : Remove from exposure site to fresh air and keep at rest. If victim is unconscious, remove foreign bodies from the mouth. If victim has stopped breathing, give artificial respiration. Obtain medical advice.
- Skin contact : Remove contaminated clothes. Wash thoroughly with water (and soap). Contact physician if symptoms persist.
- Eye contact : Flush immediately with water for at least 15 minutes. Contact physician if symptoms persist.
- Ingestion : Rinse mouth with water and obtain medical advice.

### **SECTION 5. FIREFIGHTING MEASURES**

#### **Flammable properties**

Flash point : 244.40 °F (118.00 °C)

#### **Fire fighting**

Suitable extinguishing media : Use water spray, dry chemical, carbon dioxide or appropriate foam.

#### **Protective equipment and precautions for firefighters**

Special protective equipment for firefighters : Wear NIOSH approved self-contained breathing apparatus and full protective clothing when fighting fires involving chemicals. Use water spray to cool containers exposed to fire.

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Avoid inhalation and contact with skin and eyes. A self-contained breathing apparatus is recommended in case of a major spill.
- Environmental precautions : Keep away from drains, surface- and groundwater and soil.
- Methods for containment /  
Methods for cleaning up : Clean up spillage promptly. Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. Gross spillages should be contained by use of sand or inert powder and disposed of according to the local regulations.

### SECTION 7. HANDLING AND STORAGE

- Handling : Avoid excessive inhalation of concentrated vapors. Follow good manufacturing practices for housekeeping and personal hygiene. Wash any exposed skin immediately after any chemical contact, before breaks and meals, and at the end of each work period. Contaminated clothing and shoes should be thoroughly cleaned before re-use.
- If appropriate, procedures used during the handling of this material should also be used when cleaning equipment or removing residual chemicals from tanks or other containers, especially when steam or hot water is used, as this may increase vapor concentrations in the workplace air. Where chemicals are openly handled, access should be restricted to properly trained employees. Keep all heated processes at the lowest necessary temperature in order to minimize emissions of volatile chemicals into the air.
- Advice on protection against fire and explosion : Keep away from ignition sources and naked flame.

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Requirements for storage areas and containers : Store in a cool, dry, ventilated area away from heat sources. Keep containers upright and tightly closed when not in use.

### **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **Components with workplace control parameters**

#### **Engineering measures**

Engineering measures : Where feasible, isolate mixing rooms and other areas where this material is used or openly handled. Maintain these areas under negative air pressure relative to the rest of the plant. Where feasible, use closed systems to transfer and process this material

#### **Personal protective equipment**

Eye protection : Use tight-fitting goggles, face shield or safety glasses with side shields if eye contact might occur.

Hand protection : Avoid skin contact. Use chemically resistant gloves.

Respiratory protection : Use local exhaust ventilation around open tanks and other open sources of potential exposures in order to avoid excessive inhalation, including places where this material is openly weighed or measured. In addition, use general dilution ventilation of the work area to eliminate or reduce possible worker exposures. No respiratory protection is required during normal operations in a workplace where engineering controls such as adequate ventilation, etc. are sufficient.

If engineering controls and safe work practices are not sufficient, an approved, properly fitted respirator with organic vapor cartridges or canisters and particulate filters should be used:

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- a)while engineering controls and appropriate safe work practices and/or procedures are being implemented; or
- b)during short term maintenance procedures when engineering controls are not in normal operation or are not sufficient; or
- c)if normal operational workplace vapor concentration in the air is increased due to heat ;
- d)during emergencies; or
- e)if engineering controls and operational practices are not sufficient to reduce airborne concentrations below an established occupational exposure limit.

### Hygiene measures

- : To the extent deemed appropriate, implement pre-placement and regularly scheduled ascertainment of symptoms and spirometry testing of lung function for workers who are regularly exposed to this material.  
To the extent deemed appropriate, use an experienced air sampling expert to identify and measure volatile chemicals that could be present in the workplace air to determine potential exposures and to ensure the continuing effectiveness of engineering controls and operational practices to minimize exposure.

### Protective measures

- : In December 2003, the National Institute for Occupational Safety and Health ("NIOSH") published an Alert on preventing lung disease in workers who use or make flavorings [NIOSH Publication Number 2004-110].  
In August 2004, the United States Flavor and Extract Manufacturers Association (FEMA) issued a report entitled "Respiratory Safety in the Flavor Manufacturing Workplace".  
Both of these reports provide recommendations for reducing employee exposure and for medical surveillance in the workplace. The recommendations in these reports are generally applicable to the use of any chemical in the workplace and you are strongly urged to review both of these reports.  
The report published by FEMA also contains a list of "high priority" chemicals. If any of these chemicals are present in this product at a concentration  $\geq 1.0\%$  due to an intentional addition by IFF, the chemical(s) will be identified in this safety data sheet.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance

Physical state : liquid  
Appearance : CLEAR LIQUID  
Colour : colorless to pale yellow  
  
Odour : conforms to standard

#### Safety data

Flash point : 244.40 °F (118.00 °C)  
  
Oxidizing properties : The substance or mixture is not classified as oxidizing.  
  
Freezing point : < -4.00 °F (< -20.00 °C)  
Method: OECD Test Guideline 102  
  
Boiling point : 496.40 °F (258.00 °C)  
at 1,023.00 hPa (1,023 hPa)  
Method: OECD Test Guideline 103  
  
Vapour pressure : .06 hPa (0.06 hPa)  
Note: Calculated  
  
Relative density (20 °C) : 1.0160 - 1.0230  
  
Water solubility : 0.0596 g/l  
at 68 °F (20 °C)  
Method: OECD Test Guideline 105  
  
Partition coefficient: n-octanol/water : log Pow: 3.000 - 4.000

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Method: OECD 117

Surface tension : 64 mN/m  
at 70 °F (21 °C)  
Method: OECD 115

### SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid : Remarks: Direct sources of heat.

Chemical stability : Remarks: Presents no significant reactivity hazard, by itself or in contact with water. Avoid contact with strong acids, alkali or oxidizing agents.

Hazardous decomposition products : Note: Carbon monoxide and unidentified organic compounds may be formed during combustion.

### SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : Acute toxicity estimate  
Dose: 500.5 mg/kg  
Method: Calculation method

Acute oral toxicity (Component) : Component: 1339119-15-1  
LD50 Rat  
Dose: 500 mg/kg

Acute dermal toxicity : Acute toxicity estimate  
Dose: 2,503 mg/kg  
Method: Calculation method

Acute dermal toxicity (Component) : Component: 1339119-15-1  
LD50 Rat

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Dose: > 2,000 mg/kg  
Method: OECD Test Guideline 402

Acute inhalation toxicity : Acute toxicity estimate  
Exposure time: 4 h  
Dose: 11.01 mg/l  
Method: Calculation method

Acute inhalation toxicity (Component) : Component: 1339119-15-1  
LC50 Rat  
Exposure time: 4 h  
Dose: 3.49 mg/l  
Method: OECD Test Guideline 403  
Test substance: see user defined free text

Skin irritation (Component) : Component: 1339119-15-1  
Result: irritating  
Method: OECD 439  
Result: not corrosive  
Method: OECD 431

Eye irritation(Component) : Component: 1339119-15-1  
Rabbit  
Classification: Irritating to eyes.  
Result: Irritation to eyes, reversing within 7 days  
Method: OECD Test Guideline 405

Sensitisation (Component) : Component: 1339119-15-1  
repeated insult patch test human  
Result: Does not cause skin sensitisation.  
Test substance: 1.0%  
LLNA Mouse  
Result: Causes sensitisation.  
Method: OECD 429  
Test substance: 25%  
repeated insult patch test human  
Result: causes no sensitization

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Test substance: 2.0%

Repeated dose toxicity(Component) : Component: 1339119-15-1  
IngestionRat  
NOEL: 93.2 mg/kg  
Method: OECD Test Guideline 407  
IngestionRat  
NOEL: 98.1 mg/kg  
Method: OECD Test Guideline 407

### SECTION 12. ECOLOGICAL INFORMATION

**Component:**

1339119-15-1

AQUAFLORA

Toxicity to fish:

LC50

Species: Fish

Dose: 4.81 mg/l

Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates:

Immobilization EC50

Species: Daphnia magna (Water flea)

Dose: 0.69 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae:

EC50

Species:

Dose: 3.1 mg/l

Toxicity to algae:

NOEC

Species:

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Dose: 0.9 mg/l

### SECTION 13. DISPOSAL CONSIDERATIONS

Contaminated packaging : Place material into sealed containers and dispose of in accordance with local, state and federal regulations.

### SECTION 14. TRANSPORT INFORMATION

**DOT** Proper shipping name : Combustible liquid, n.o.s.  
(4,7-METHANO-1H-INDENE-5-ACETALDEHYDE,  
OCTAHYDRO-)  
Labels : NONE  
UN number : 1993  
Class : CBL  
Packing group : III  
Emergency Response : 128  
Guidebook Number

**DOT NON-BULK** Not dangerous goods

**IATA** UN number : 3082  
Description of the goods : ENVIRONMENTALLY HAZARDOUS  
SUBSTANCE, LIQUID, N.O.S.  
(4,7-METHANO-1H-INDENE-5-ACETALDEHYDE,  
OCTAHYDRO-)  
Class : 9  
Packing group : III  
ICAO-Labels : 9

**IMDG** UN number : 3082  
Description of the goods : ENVIRONMENTALLY HAZARDOUS

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Class : 9  
Packing group : III  
IMDG-Labels : 9  
EmSNumber 1 : F-A  
EmSNumber 2 : S-F  
Marine pollutant : yes  
SUBSTANCE, LIQUID, N.O.S.  
(4,7-METHANO-1H-INDENE-5-ACETALDEHYDE,  
OCTAHYDRO-)  
(4,7-METHANO-1H-INDENE-5-ACETALDEHYDE,  
OCTAHYDRO-)

### SECTION 15. REGULATORY INFORMATION

**SARA 311/312 Hazards** : Acute Health Hazard  
**Reportable Quantity** :  
**HMIS Classification** : Health hazard: 2  
Flammability: 1  
Physical and chemical hazards: 0

### SECTION 16. OTHER INFORMATION

#### Further information

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