

Product APPLE OLIFFAC S

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### 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : APPLE OLIFFAC S

 IFF Code
 : 30523320

 Cust. Material
 : 30523320

 SDS Number
 : R00000442206

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

Use of the Substance/Mixture : Fragrance for consumer product

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

Company : IFF Inc.

600 Highway 36 07730 Hazlet

**USA** 

Telephone : +17322644500 Telefax : +17323352551 E-mail address : sds@iff.com

Responsible/issuing person **1.4 Emergency telephone number** 

Refer to section 16 for country specific emergency contact number.

## 2. Hazards identification

#### 2.1 Classification of the substance or mixture

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

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

Acute aquatic toxicity, Category 1 H400: Very toxic to aquatic life.

Chronic aquatic toxicity, Category 2 H411: Toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

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

Hazard pictograms :





Signal word : Warning

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Hazard statements : H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting

effects.

Precautionary statements : **Prevention:** 

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/

spray.

P273 Avoid release to the environment.

P280 Wear protective gloves.

**Response:** 

P333 + P313 If skin irritation or rash occurs: Get medical

advice/ attention.

P362 + P364 Take off contaminated clothing and wash it

before reuse.

P391 Collect spillage.

Hazardous components which must be listed on the label:

• 101-86-0 Hexyl Cinnamal

• 27939-60-2, 68039-48-5, 68039-49-6, 68737-61-1, 35145-02-9, 36635-35-5,

68084-52-6

#### 2.3 Other hazards

None reasonably foreseeable.

## 3. Composition/information on ingredients

#### 3.1 Substances

Not applicable, product is a mixture.

#### 3.2 Mixtures

#### **Hazardous components**

Chemical name	CAS-No.	Classification	Concentration
	EC-No.	(REGULATION (EC) No 1272/2008)	[%]
	Registration number		
1,3,4,6,7,8-hexahydro-	1222-05-5	Aquatic Chronic1; H410	20 - 25

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4,6,6,7,8,8- hexamethylindeno[5,6- c]pyran	214-946-9 01-2119488227-29	Aquatic Acute1; H400	
cis-2-tert-butylcyclohexyl acetate	88-41-5, 20298-69-5 243-718-1 01-2119970713-33	Aquatic Chronic2; H411	10 - 20
alpha,3,3- trimethylcyclohexylmethyl formate	25225-08-5 246-735-2 01-2119979543-25	Aquatic Chronic2; H411	10 - 20
undecan-4-olide	104-67-6 203-225-4	Aquatic Chronic3; H412	2,5 - 10
α-hexylcinnamaldehyde	101-86-0 639-566-4 01-2119533092-50	Aquatic Chronic2; H411 Skin Sens.1B; H317 Aquatic Acute1; H400	1 - 2,5
Dimethylcyclohex-3-ene-1- carbaldehyde (isomer unspecified)	27939-60-2, 68039-48-5, 68039-49-6, 68737-61-1, 35145-02-9, 36635-35-5, 68084-52-6 248-742-6, 268-264-1, 272-113-5, 252-395-6, 253-139-6, 268-442-9	Acute Tox.4; H312 Skin Irrit.2; H315 Skin Sens.1B; H317 Aquatic Chronic2; H411	0,25 - 1

For the full text of the R-phrases mentioned in this Section, see Section 16.

Components with workplace control parameters

Components	EC-No.	Concentration [%]
diethyl phthalate	201-550-6	25 - 50

### 4. First aid measures

#### 4.1 Description of first aid measures

General advice : Take Hazard and Precautionary phrases (section 2) into account.

If inhaled : 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.

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In case of skin contact : Remove contaminated clothes. Wash thoroughly with water (and

soap). Contact physician if symptoms persist.

In case of eye contact : Flush immediately with water for at least 15 minutes. Contact

physician if symptoms persist.

If swallowed : Rinse mouth with water and obtain medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

Risks : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available.

### 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Carbondioxide, dry chemical, foam.

Unsuitable extinguishing media : Do not use a direct waterjet on burning material.

5.2 Special hazards arising from the substance or mixture

Specific hazards during :

firefighting

: Water may be ineffective.

5.3 Advice for firefighters

Further information : Standard procedure for chemical fires.

#### 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Avoid inhalation and contact with skin and eyes. A self-contained

breathing apparatus is recommended in case of a major spill.

**6.2 Environmental precautions** 

Environmental precautions : Keep away from drains, surface- and groundwater and soil.

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

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.

#### 6.4 Reference to other sections

Prevent spreading over a wide area (e.g. by containment or oil barriers).

### 7. Handling and storage

#### 7.1 Precautions for safe handling

Advice on safe 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.

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

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.

7.3 Specific end use(s)

Specific use(s) : No information available.

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### 8. Exposure controls/personal protection

#### 8.1 Control parameters

Components with workplace control parameters

Components		EC-No.	Exposure limit(s)	
dieth	yl phthalate		201-550-6	TWA

**DNEL** 

1,3,4,6,7,8-hexahydro- : End Use: Workers

4,6,6,7,8,8- Exposure routes: Skin contact

hexamethylindeno[5,6-c]pyran Potential health effects: Long-term systemic effects

Exposure time: 8 h Value: 60 mg/kg bw/day

End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Exposure time: 8 h Value: 22 mg/m3

End Use: General population Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Exposure time: 8 h Value: 6,5 mg/m3

End Use: General population Exposure routes: Skin contact

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Potential health effects: Long-term systemic effects

Exposure time: 8 h Value: 36 mg/kg bw/day

End Use: General population Exposure routes: Ingestion

Potential health effects: Long-term systemic effects

Exposure time: 8 h Value: 3,8 mg/kg bw/day

**PNEC** 

1,3,4,6,7,8-hexahydro-

4,6,6,7,8,8-

hexamethylindeno[5,6-c]pyran

: Fresh water

Value: 0,0044 mg/l

Marine water

Value: 0,00044 mg/l

Fresh water sediment

Value: 2 mg/kg dry weight (d.w.)

Marine sediment

Value: 0,394 mg/kg dry weight (d.w.)

Soil

Value: 0,31 mg/kg dry weight (d.w.)

#### 8.2 Exposure controls

#### **Engineering measures**

Where appropriate, use closed systems to transfer and process this material.

If appropriate, 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.

#### Personal protective equipment

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,

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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:

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.

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

Eye protection : Use tight-fitting goggles, face shield or safety glasses with side

shields if eye contact might occur.

operational practices to minimize exposure.

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

**Environmental exposure controls** 

General advice : Keep away from drains, surface- and groundwater and soil.

## 9. Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : colorless to pale yellow Odour : conforms to standard

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0,2 hPa Calculated

Odour Threshold : not determined

Flash point : 80 °C

Lower explosion limit : not determined Upper explosion limit : not determined Flammability (solid, gas) : not determined Oxidizing properties : not determined Auto-ignition temperature : not determined pН : not determined Melting point : not determined Boiling point : not determined

Density : not determined
Water solubility : not determined
Partition coefficient: n- : not determined

octanol/water

Vapour pressure

Solubility in other solvents : not determined Viscosity, dynamic : not determined Viscosity, kinematic : not determined Relative vapour density : not determined Evaporation rate : not determined

9.2 Other information

Refractive index : not determined Relative density : 0,9899 - 0,9999

### 10. Stability and reactivity

#### 10.1 Reactivity

No hazards to be specially mentioned.

#### 10.2 Chemical stability

Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions : Note: Presents no significant reactivity hazard, by itself or in contact

with water. Avoid contact with strong acids, alkali or oxidizing

agents.

10.4 Conditions to avoid

Conditions to avoid : Direct sources of heat.

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10.5 Incompatible materials

Materials to avoid : Avoid contact with strong acids, alkali or oxidizing agents.

10.6 Hazardous decomposition products

Hazardous decomposition : Carbon monoxide and unidentified organic compounds may be

products formed during combustion.

### 11. Toxicological information

#### 11.1 Information on toxicological effects

#### Acute toxicity

#### Skin corrosion/irritation

 $\alpha$ -hexylcinnamaldehyde : Species: Rabbit

Result: Skin irritation

Method: Directive 67/548/EEC, Annex V, B.4.

Exposure time: 24 h Test substance:(undiluted)

#### Serious eye damage/eye irritation

No lead substance

#### Respiratory or skin sensitisation

 $\alpha$ -hexylcinnamaldehyde : LLNA

Species: Mouse

Result: Causes sensitisation. Method: OECD 429

### Germ cell mutagenicity

Information on ingredients with chronic toxicity hazard(s) is available upon request.

#### Carcinogenicity

Information on ingredients with chronic toxicity hazard(s) is available upon request.

#### Reproductive toxicity

Information on ingredients with chronic toxicity hazard(s) is available upon request.

#### Target Organ Systemic Toxicant - Single exposure

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Information on ingredients with chronic toxicity hazard(s) is available upon request.

#### Target Organ Systemic Toxicant - Repeated exposure

Information on ingredients with chronic toxicity hazard(s) is available upon request.

#### **Aspiration hazard**

No test data available. Ingredients with an aspiration hazard are identified in section 3.

### 12. Ecological information

#### 12.1 Toxicity

Toxicity to fish

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-: LC50: 0,452 mg/l Exposure time: 21 d

hexamethylindeno[5,6-c]pyran

Species: Lepomis macrochirus (Bluegill sunfish)

Method: OECD Test Guideline 204

Toxicity to daphnia and other aquatic invertebrates 1,3,4,6,7,8-hexahydro- : EC50: 0,9 mg/l 4,6,6,7,8,8- Exposure time: 48 h

hexamethylindeno[5,6-c]pyran Species: Daphnia magna (Water flea) Method: OECD Test Guideline 202

Toxicity to algae

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-Exposure time: 72 h

hexamethylindeno[5,6-c]pyran Species: Pseudokirchneriella subcapitata (green algae)

Method: OECD Test Guideline 201

EbC50: 0,723 mg/l Exposure time: 72 h

Species: Pseudokirchneriella subcapitata (green algae)

Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity)

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-: NOEC: 0,068 mg/l Exposure time: 36 d

hexamethylindeno[5,6-c]pyran Species: Pimephales promelas (fathead minnow)

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Method: OECD 210

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-: NOEC: 0,111 mg/l Exposure time: 21 d

hexamethylindeno[5,6-c]pyran Species: Daphnia magna (Water flea)

Method: OECD 211

#### 12.2 Persistence and degradability

Biodegradability

1,3,4,6,7,8-hexahydro- : Result: Not readily biodegradable.

4,6,6,7,8,8-

hexamethylindeno[5,6-c]pyran Method: Modified Sturm Test

#### 12.3 Bioaccumulative potential

Bioaccumulation

1,3,4,6,7,8-hexahydro- : Species: Lepomis macrochirus (Bluegill sunfish)

4,6,6,7,8,8- Exposure time: 28 d

hexamethylindeno[5,6-c]pyran Bioconcentration factor (BCF): 1.584

Method: OECD 305

#### 12.4 Mobility in soil

Mobility : No data available

Distribution among environmental compartments 1,3,4,6,7,8-hexahydro
: Log Koc: 4,39

4,6,6,7,8,8-

hexamethylindeno[5,6-c]pyran

#### 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

Additional ecological : There is no data available for this product.

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information

### 13. Disposal considerations

#### 13.1 Waste treatment methods

Product : Dispose of according to local regulations. Avoid disposing into

drainage systems and into the environment.

Contaminated packaging : Empty containers should be taken to an approved waste handling

site for recycling or disposal.

### 14. Transport information

ADR

UN number : 3082

Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(HEXAMETHYLINDANOPYRAN)

Labels : 9
Packing group : III
Environmentally hazardous : yes

**IATA** 

UN number : 3082

Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(HEXAMETHYLINDANOPYRAN)

Labels : 9
Packing group : III
Environmentally hazardous : yes

**IMDG** 

UN number : 3082

Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(HEXAMETHYLINDANOPYRAN)

Labels : 9 Packing group : III

Marine pollutant : yes (HEXAMETHYLINDANOPYRAN)

Special precautions for

user

: No special precautions required.

### 15. Regulatory information

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

Water contaminating class : WGK 2significantly water endangering

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#### 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

### 16. Other information

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

H312	Harmful in contact with skin.
-	
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
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.

#### **Further information**

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 >= 1.0% due to an intentional addition by IFF, the chemical(s) will be identified in this safety data sheet.

According to Regulation (EC) No. 1907/2006 the information in this safety data sheet is based on the properties of the material known to IFF at the time the data sheet was issued. The safety data sheet is intended to provide information for a health and safety assessment of the material and the circumstances, under which it is packaged, stored or applied in the workplace. For such a safety assessment International Flavors & Fragrances holds no responsibility. This document is not intended for quality assurance purposes.

**Emergency telephone number** 

Austria	+43 1 406 43 43
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Czech Republic	+420 224 919 293 / +420 224 915 402	
Denmark	+45 82 12 12 12	
Estonia	16662 (National), International (+372) 626 93 90	
Finland	+358 9 471977	
France	+ 33 (0)1 45 42 59 59	
Germany	+31 13 4642 211	
Greece	+31 13 4642 211	
Hungary	(+36-80) 201-199	
Iceland	+354 543 2222	
Ireland	+353 1 8092566 / +353 1 8379964	
Italy	+39 06 68593726	
Latvia	+371 67042473	
Lithuania	+370 5 236 20 52 or +370 687 53378	
Luxembourg	+352 8002 5500	
Malta	+356 21224071	
Netherlands +31 30 2748888 (Only for the purpose of informing medical p		
	cases of acute intoxications).	
Norway	+47 22 59 13 00	
Poland	+31 13 4642 211	
Portugal	808 250 143	
Poland	+31 13 4642 211	
Portugal	808 250 143	
Romania	+31 13 4642 211	
Slovakia	+31 13 4642 211	
Slovenia	+31 13 4642 211	
Spain	+34 91 562 04 20 (only for the purpose of informing medical personnel in	
	cases of acute intoxications).	
Sweden	+46 112	
United Kingdom	+44 111 (England, Wales & Scotland)	

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