

# BASIL & BERGAMOT FO-0037

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830



### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture  
Product name : BASIL & BERGAMOT FO-0037  
UFI : X9N7-63A4-C00J-Y1PP  
Product code : FO-0037  
Type of product : Perfumes, Fragrances  
Product group : Finished Good

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

##### 1.2.1. Relevant identified uses

Main use category : Industrial use, Professional  
Industrial/Professional use spec use : For professional use only  
Industrial  
Use of the substance/mixture : Perfumes, Fragrances  
Function or use category : Odour agents

##### 1.2.2. Uses advised against

No additional information available

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

Fragrance Orchard  
Neutrino,  
Albert Road,  
Essex CM7 3JQ GB  
- United Kingdom

#### 1.4. Emergency telephone number

Emergency number : +44 (0) 1376 555185

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

**Classification according to Regulation (EC) No. 1272/2008 [CLP] Mixtures/Substances: SDS EU 2015: According to Regulation (EU) 2015/830 (REACH Annex II)**

Skin corrosion/irritation H315  
Category 2  
Serious eye damage/eye irritation Category 1 H318  
Skin sensitization, Category 1 H317  
Hazardous to the aquatic environment - Chronic H411  
Hazard Category 2

Full text of H statements : see section 16

#### Adverse physicochemical, human health and environmental effects

Causes skin irritation. Causes serious eye damage. Toxic to aquatic life with long lasting effects. May cause an allergic skin reaction.

#### 2.2. Label elements

**Labeling according to Regulation (EC) No. 1272/2008 [CLP]** Extra labelling to display Extra classification(s) to

display Hazard pictograms (CLP)



GHS05



GHS07



GHS09

Signal word (CLP)

: Danger

Hazardous ingredients

: Petitgrain oil terpeneless; d-Limonene; Clove leaf oil ; Linalyl acetate; Eugenol; Triplal

Hazard statements (CLP)	(Vertocitral); beta-Caryophyllene : H315 - Causes skin irritation
	H317 - May cause an allergic skin reaction H318 - Causes serious eye damage H411 - Toxic to aquatic life with long lasting effects
Precautionary statements (CLP)	: P264 - Wash hands thoroughly after handling
	P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 - IF ON SKIN: Wash with plenty of water.

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Petitgrain oil terpeneless	(CAS-No.) 68915-85-5 (EC-No.) 614-781-6	2 - 4	Eye Dam. 1, H318 Skin Irrit. 2, H315 Skin Sens. 1, H317
d-Limonene	(CAS-No.) 5989-27-5 (EC-No.) 227-813-5 (EC Index-No.) 601-029-00-7 (REACH-no) 01-2119493353-35	1.6 - 3.208	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Basil oil (Ocimum basilicum L.)	(CAS-No.) 8015-73-4 (EC-No.) 283-900-8;616-962-5	1.6 - 3.2	Acute Tox. 4 (Oral), H302
Clove leaf oil	(CAS-No.) 8000-34-8 (EC-No.) 616-772-2	1.6 - 3.2	Eye Irrit. 2, H319 Skin Sens. 1, H317 Asp. Tox. 1, H304
Eugenol	(CAS-No.) 97-53-0 (EC-No.) 202-589-1	1.3 - 2.8	Eye Irrit. 2, H319 Skin Sens. 1B, H317
Linalyl acetate	(CAS-No.) 115-95-7 (EC-No.) 204-116-4 (REACH-no) 01-2119454789-19	1.2 - 2.408	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Triplal (Vertocitral)	(CAS-No.) 68039-49-6 (EC-No.) 268-264-1	0.8 - 1.6	Eye Irrit. 2, H319 Aquatic Chronic 2, H411 Skin Irrit. 2, H315 Skin Sens. 1B, H317
beta-Caryophyllene	(CAS-No.) 87-44-5 (EC-No.) 201-746-1	0.22 - 0.64	Asp. Tox. 1, H304 Aquatic Chronic 4, H413 Skin Sens. 1B, H317

Allergen report available upon request.

Full text of H-phrases: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.

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

Symptoms/effects after skin contact	: Irritation. May cause an allergic skin
Symptoms/effects after eye contact	reaction. : Serious damage to eyes.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

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

Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapors/spray.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace.

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

Storage conditions Storage : Store in a well-ventilated place. Keep cool.

temperature Storage area : 25 °C

Special rules on packaging : Store in a well-ventilated place. Store away from

Packaging materials heat. : Store in a closed container.

: Do not store in corrodable metal.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

d-Limonene (5989-27-5)		
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	140 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (ppm)	25 ppm
Finland	HTP-arvo (15 min)	280 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min) (ppm)	50 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	28 mg/m <sup>3</sup> (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	TRGS 900 Occupational exposure limit value (ppm)	5 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Spain	VLA-ED (mg/m <sup>3</sup> )	168 mg/m <sup>3</sup>

<b>d-Limonene (5989-27-5)</b>		
Spain	VLA-ED (ppm)	30 ppm
Norway	TWA (AN) (mg/m <sup>3</sup> )	140 mg/m <sup>3</sup>
Norway	TWA (AN) (ppm)	25 ppm
Norway	TWA (Kortidsverdi) (mg/m <sup>3</sup> )	175 mg/m <sup>3</sup> (value calculated)
Norway	TWA (Kortidsverdi) (ppm)	37.5 ppm (value calculated)
Switzerland	MAK (mg/m <sup>3</sup> )	40 mg/m <sup>3</sup>
Switzerland	MAK (ppm)	7 ppm
Switzerland	KZGW (mg/m <sup>3</sup> )	80 mg/m <sup>3</sup>
Switzerland	KZGW (ppm)	14 ppm

## 8.2. Exposure controls

Appropriate engineering controls	: Ensure good ventilation of the work station.
Hand protection	: Protective gloves
Eye protection	: Safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory
Environmental exposure controls	equipment : Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Color	: light yellow. amber.
Odor	: characteristic.
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 80 °C (closed cup) ASTM
Auto-ignition temperature	D7094 : No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: Not applicable
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: ≈ 0.92
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: No data available
	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

No dangerous reactions known under normal conditions of use.

**10.4. Conditions to avoid**

None under recommended storage and handling conditions (see section 7).

**10.5. Incompatible materials**

No additional information available

**10.6. Hazardous decomposition products**

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects**

Acute toxicity	:	Not classified
Skin corrosion/irritation Serious	:	Causes skin irritation.
eye damage/irritation	:	Causes serious eye damage.
Respiratory or skin sensitization	:	May cause an allergic skin
Germ cell mutagenicity	reaction. :	Not classified
Carcinogenicity	:	Not classified
Reproductive toxicity	:	Not classified
STOT-single exposure	:	Not classified
STOT-repeated exposure	:	Not classified
Aspiration hazard	:	Not classified

**SECTION 12: Ecological information****12.1. Toxicity**

Ecology - general : Toxic to aquatic life with long lasting effects.

**12.2. Persistence and degradability**

No additional information available

**12.3. Bioaccumulative potential**

No additional information available

**12.4. Mobility in soil**

No additional information available

**12.5. Results of PBT and vPvB assessment**

No additional information available

**12.6. Other adverse effects**

No additional information available

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

**SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

**14.1. UN number**

UN-No. (ADR)	:	3082
UN-No. (IMDG)	:	3082
UN-No. (IATA)	:	3082
UN-No. (ADN)	:	3082
UN-No. (RID)	:	3082

**14.2. UN proper shipping name**

Proper Shipping Name (ADR)	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
Proper Shipping Name (IMDG)	N.O.S. :	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
Proper Shipping Name (IATA)	N.O.S. :	Environmentally hazardous substance, liquid, n.o.s.

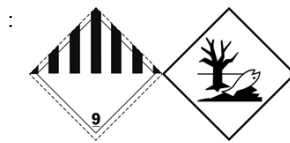
Proper Shipping Name (ADN)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
Proper Shipping Name (RID) Transport document description (ADR)	N.O.S. : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (d-Limonene), 9, III, (-)
Transport document description (IMDG)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (d-Limonene), 9, III, MARINE POLLUTANT
Transport document description (IATA)	: UN 3082 Environmentally hazardous substance, liquid, n.o.s. (d-Limonene), 9, III
Transport document description (ADN)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (d-Limonene), 9, III
Transport document description (RID)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III

#### 14.3. Transport hazard class(es)

##### ADR

Transport hazard class(es) (ADR) : 9

Hazard labels (ADR) : 9



##### IMDG

Transport hazard class(es) (IMDG) : 9

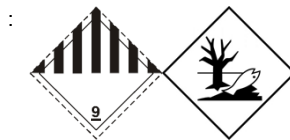
Hazard labels (IMDG) : 9



##### IATA

Transport hazard class(es) (IATA) : 9

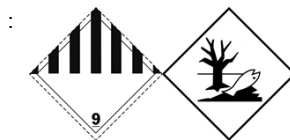
Hazard labels (IATA) : 9



##### ADN

Transport hazard class(es) (ADN) : 9

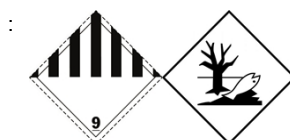
Hazard labels (ADN) : 9



##### RID

Transport hazard class(es) (RID) : 9

Hazard labels (RID) : 9



**14.4. Packing group**

Packing group (ADR)	: III
Packing group (IMDG)	: III
Packing group (IATA)	: III
Packing group (ADN)	: III
Packing group (RID)	: III

**14.5. Environmental hazards**

Dangerous for the environment	:	Yes
Marine pollutant	:	Yes
Other information	:	No supplementary information available

**14.6. Special precautions for user****- Overland transport**

Classification code (ADR)	: M6
Special provision (ADR)	: 274, 335, 375, 601
Limited quantities (ADR)	: 5I
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01,
Special packing provisions (ADR)	R001 : PP1
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1, TP29
Tank code (ADR)	: LGBV
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13
Hazard identification number (Kemler No.)	: 90
Orange plates	:



Tunnel restriction code (ADR)	: -
EAC	: •3Z

**- Transport by sea**

Special provision (IMDG)	: 274, 335, 969
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: LP01, P001
Packing provisions (IMDG)	: PP1
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP2, TP29
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-F
Stowage category (IMDG)	: A

**- Air transport**

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y964
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 964
PCA max net quantity (IATA)	: 450L

CAO packing instructions (IATA)	: 964
CAO max net quantity (IATA)	: 450L
Special provision (IATA)	: A97, A158, A197
ERG code (IATA)	: 9L

#### - Inland waterway transport

Classification code (ADN) Special provision (ADN)	: M6
Limited quantities (ADN) Excepted quantities (ADN) Carriage permitted (ADN) Equipment required (ADN) Number of blue cones/lights (ADN)	: 274, 335, 375, 601
	: 5 L
	: E1
	: T
	: PP
	: 0

#### - Rail transport

Classification code (RID)	: M6
Special provision (RID)	: 274, 335, 375, 601
Limited quantities (RID) Excepted quantities (RID) Packing instructions (RID) Special packing provisions (RID) Mixed packing provisions (RID)	: 5L
	: E1
	: P001, IBC03, LP01,
	R001 : PP1
	: MP19
Portable tank and bulk container instructions (RID)	: T4
Portable tank and bulk container special provisions (RID)	: TP1, TP29
Tank codes for RID tanks (RID)	: LGBV
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W12
Special provisions for carriage - Loading, unloading and handling (RID)	: CW13, CW31
Colis express (express parcels) (RID)	: CE8
Hazard identification number (RID)	: 90

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

### SECTION 15: Regulatory information

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

##### 15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3(a) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F	d-Limonene
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	BASIL & BERGAMOT; Petitgrain oil terpeneless ; Basil oil (Ocimum basilicum L.) ; d-Limonene ; Clove leaf oil ; Linalyl acetate ; Eugenol ; Triplal (Vertocitral) ; beta-Caryophyllene
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	BASIL & BERGAMOT; d-Limonene ; Triplal (Vertocitral) ; beta-Caryophyllene
40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	d-Limonene

Contains no REACH candidate substance

Contains no REACH Annex XIV substances.



**15.1.2. National regulations****Germany**

Reference to AwSV : Water hazard class (WGK) 3, Highly hazardous to water (Classification according to AwSV, Annex 1)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

**Netherlands**

SZW-lijst van kankerverwekkende stoffen : Basil oil, Triplal (Vertocitral) are listed

SZW-lijst van mutagene stoffen : Basil oil, Triplal (Vertocitral) are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

**Denmark**

Class for fire hazard : Class III-1

Store unit : 50 liter

Classification remarks : Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

Pregnant/breastfeeding women working with the product must not be in direct contact with the product

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out

**SECTION 16: Other information**

Full text of H- and EUH-phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Aquatic Chronic 4	Hazardous to the aquatic environment - Chronic Hazard Category 4
Asp. Tox. 1	Aspiration hazard Category 1
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Flam. Liq. 3	Flammable liquids Category 3
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization, Category 1
Skin Sens. 1B	Skin sensitization, category 1B
H226	Flammable liquid and vapour
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
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
H413	May cause long lasting harmful effects to aquatic life

FCF SDS EU CLP.

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*