

## MATERIAL SAFETY DATA SHEET

According to Regulation ST/SG/AC.10/30/UN GHS, Latest revision

Revision: 20/04/2015  
Printing date: 20/04/2015**01 Identification of the substance/mixture and of the company/undertaking**

1. Product identifier
  - Trade name:  
EXOTIC FRUITS FR G115 2640
2. Relevant identified uses of the substance or mixture and uses advised against
  - Application of the substance / the preparation  
Aromatic ingredient(s).  
Industrial use only.
3. Details of the supplier of the safety data sheet
  - Manufacturer/Supplier:  
ROBERTET  
BP 52100 F-06131 GRASSE CEDEX  
Tel: +33 (0)4 93 40 33 66 (during normal opening times 8h-18h)  
Fax: +33 (0)4 93 70 68 09  
legis@robertet.com
4. Further information obtainable from:
  - ORFILA (INRS)
  - Emergency telephone number:  
+ 33 (0)1 45 42 59 59 (24h/24h ; 7/7)

**02 Hazards identification**

1. Classification of the substance or mixture



GHS02

Flam. Liq. 3 - H226 Flammable liquid and vapour.



GHS07

Skin Irrit. 2 - H315 Causes skin irritation.  
Eye Irrit. 2 - H319 Causes serious eye irritation.  
Skin Sens. 1B - H317 May cause an allergic skin reaction.

GHS09

Aquatic Acute 1 - H400 Very toxic to aquatic life.  
Aquatic Chronic 1 - H410 Very toxic to aquatic life with long lasting effects.

- Classification according to Directive 67/548/EEC or Directive 1999/45/EC  
N Dangerous for the environment  
Xi Irritant  
R 38  
Irritating to skin.  
R 43  
May cause sensitisation by skin contact.  
R 50/53  
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- Additional information:  
Full text of R and H statements: see section 16

2. Label elements

- GHS label elements



GHS02



GHS07



GHS09

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- Signal word  
Warning
  - Hazard-determining components of labelling:  
d-limonene ((R)-p-mentha-1,8-diène) / TRIPLAL(2,4-Dimethyl-3-cyclohexen-1-carboxaldehyde) / Ethyl methylphenylglycidate / Hydroxycitronellal / alpha-Pinene / Citral
  - Hazard statements  
H226 Flammable liquid and vapour.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H410 Very toxic to aquatic life with long lasting effects.
  - Precautionary statements  
P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P403+P235 Store in a well-ventilated place. Keep cool.  
P501 Dispose of contents/container in accordance with local/regional/ national/international regulations.
3. Other hazards

**03 Composition/information on ingredients**

- Chemical characterization
- Dangerous components:

CAS NO.	Description Index R-phrases	%
5989-27-5	<i>d-limonene ((R)-p-mentha-1,8-diène)</i> EC number: 227-813-5 N Xn 10-38-43-50/53-65 Asp. Tox. 1 - H304; Flam. Liq. 3 - H226; Skin Irrit. 2 - H315, Skin Sens. 1B - H317; Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410	20,00- 30,00
60-12-8	<i>Phenylethyl alcohol</i> EC number: 200-456-2 Xn 22-36 Acute Tox. 4 - H302, Eye Irrit. 2 - H319; Acute Tox. 5 - H313, H316	10,00- 20,00
5413-60-5	<i>Tricyclodecanyl-9- acetate</i> EC number: 226-501-6 52/53 Acute Tox. 5 - H303, H316, H402, Aquatic Chronic 3 - H412	5,00- 10,00
104-67-6	<i>gamma-Undecalactone</i> EC number: 203-225-4 N 51/53 H316, H402, Aquatic Chronic 3 - H412	1,00- 5,00
147060-73-9	<i>Citrathal</i> Xi 11-38-52/53 Flam. Liq. 2 - H225; Skin Irrit.	1,00- 5,00

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68039-49-6	<p>2 - H315, Eye Irrit. 2 - H319; H402, Aquatic Chronic 3 - H412 TRIPLAL(2,4-Dimethyl-3-cyclohexen-1- carboxaldehyde ) EC number: 268-264-1 Xi 36/38-43-52/53 Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1B - H317; H227, Acute Tox. 5 - H303, Acute Tox. 5 - H313, H402, Aquatic Chronic 3 - H412</p>	1,00- 5,00
77-83-8	<p>Ethyl methylphenylglycidate EC number: 201-061-8 N Xi 43-51/53 Skin Sens. 1B - H317; Aquatic Chronic 2 - H411</p>	1,00- 5,00
67634-00-8	<p>Allyl amyl glycolate EC number: 266-803-5 Xn 22-38 Skin Irrit. 2 - H315, Eye Irrit. 2 - H319</p>	1,00- 5,00
107-75-5	<p>Hydroxycitronellal EC number: 203-518-7 Xi 36-43 Eye Irrit. 2 - H319, Skin Sens. 1B - H317</p>	0,10- 1,00
80-56-8	<p>alpha-Pinene EC number: 201-291-9 Xn 10-38-43-65 Asp. Tox. 1 - H304; Flam. Liq. 3 - H226; Skin Irrit. 2 - H315, Skin Sens. 1B - H317; Acute Tox. 5 - H303</p>	0,10- 1,00
64-17-5	<p>ethanol EC number: 200-578-6 F Xi 11-36 Flam. Liq. 2 - H225; Eye Irrit. 2 - H319</p>	0,10- 1,00
5392-40-5	<p>Citral EC number: 226-394-6 Xi 38-43 Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1B - H317; H227, Acute Tox. 5 - H313, H401</p>	0,10- 1,00

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### 04 First aid measures

1. Description of first aid measures
  - General information:  
Seek immediate medical advice.
  - After inhalation:  
Supply fresh air; consult doctor in case of complaints.
  - After skin contact:  
Immediately wash with water and soap and rinse thoroughly.
  - After eye contact:  
Rinse opened eye for several minutes under running water.
  - After swallowing:  
If symptoms persist consult doctor.
2. Information for doctor:
  - Most important symptoms and effects, both acute and delayed  
No further relevant information available.
3. Indication of any immediate medical attention and special treatment needed  
No further relevant information available.

### 05 Firefighting measures

1. Extinguishing media
  - Suitable extinguishing agents:  
CO<sub>2</sub>, sand, extinguishing powder first. In the absence of any other means of extinguishing, water can be used as an extinguishing agent.
  - For safety reasons unsuitable extinguishing agents:  
Non applicable
2. Special hazards arising from the substance or mixture  
No further relevant information available.
3. Advice for firefighters  
No specific advice

### 06 Accidental release measures

1. Personal precautions, protective equipment and emergency procedures  
Wear protective equipment. Keep unprotected persons away.
2. Environmental precautions:  
Do not allow to enter sewers/ surface or ground water.
3. Methods and material for containment and cleaning up:  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.
4. Reference to other sections  
See Section 13 for disposal information.

### 07 Handling and storage

1. Handling:
  - Precautions for safe handling  
Avoid contact with skin and eyes Wear appropriate protective equipments (gloves, glasses ...)
  - Information about fire - and explosion protection:  
Keep ignition sources away - Do not smoke.
  - Conditions for safe storage, including any incompatibilities
2. Storage:
  - Requirements to be met by storerooms and receptacles:  
Avoid exposure to extreme temperatures. Avoid prolonged contact with certain plastic materials (PVC..)
  - Further information about storage conditions:  
None.

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No further relevant information available.*(continued of page 4)***08 Exposure controls/personal protection**

1. Control parameters
  - Ingredients with limit values that require monitoring at the workplace:
  - Additional information:  
The lists valid during the making were used as basis.
  - Personal protective equipment:
    - General protective and hygienic measures:  
Avoid contact with the eyes and skin.
    - Respiratory protection: Not required.
    - Protection of hands: Protective gloves
    - Eye protection: Safety glasses
    - Body protection: Protective work clothing

**09 Physical and chemical properties****General Information****Appearance:**

<b>Form:</b>	Fluid
<b>Odour:</b>	Characteristic
<b>pH-value:</b>	Not determined.

**Change in condition**

<b>Boiling point/Boiling range:</b>	> 35 °C
<b>Flash point:</b>	59 °C
<b>Flammability (solid, gaseous):</b>	Not applicable.
<b>Ignition temperature:</b>	
<b>Decomposition temperature:</b>	Not determined.
<b>Self-igniting:</b>	Not determined.
<b>Danger of explosion:</b>	Not determined.
<b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>Vapour pressure:</b>	Not determined.
<b>Density:</b>	Not determined.
<b>Specific gravity</b>	0,9565 - 0,9765 (20°C)
<b>Solubility in / Miscibility with water:</b>	Not determined.
<b>Partition coefficient (n-octanol/water):</b>	Not determined.
<b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.

**10 Stability and reactivity**

1. Reactivity  
No known reaction with water
2. Chemical stability  
Good stability at conditions of use mentioned in point 7 and 10
3. Possibility of hazardous reactions  
Reacts with strong oxidizing agents.

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4. Conditions to avoid  
Avoid temperatures near the flash point (see Section 9). Avoid contact with oxidizing agents.
5. Incompatible materials:  
No further relevant information available.
6. Hazardous decomposition products:  
No dangerous decomposition products known.

**11 Toxicological information**

1. Information on toxicological effects  
This preparation has not been subjected to toxicological testing as such, but it is composed of substances with an established toxicological bibliography. Substances taken into account in determining the toxicological effects of this preparation are listed in Section 3.
  - Acute toxicity:  
LD/LC50 values relevant for classification:  
**EXOTIC FRUITS FR G115 2640**  
Oral, LD50: 9201 mg/kg

**12 Ecological information**

1. Toxicity  
This preparation has not been subjected to ecotoxicological testing as such, but it is composed of substances with an established ecotoxicological bibliography. Substances taken into account in determining the ecotoxicological effects of this preparation are listed in Section 3.
2. Persistence and degradability
  - Bioaccumulative potential
  - Mobility in soil
  - Results of PBT and vPvB assessment
  - PBT:  
Not applicable.
  - vPvB:  
Not applicable.

**13 Disposal considerations**

1. Waste treatment methods
  - Recommendation  
Must be specially treated adhering to official regulations.
  - Uncleaned packaging:  
- Recommendation:  
Disposal must be made according to official regulations.

**14 Transport information**

- UN-Number  
**ADR** UN1266  
**IMDG** UN1266  
**IATA** UN1266
- UN proper shipping name  
**ADR** 1266 PERFUMERY PRODUCTS  
**IMDG** PERFUMERY PRODUCTS (DIPENTENE SOLUTION)  
**IATA** PERFUMERY PRODUCTS
- Transport hazard class(es)  
**ADR**  
**Class** 3 (F1) Flammable liquids.

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**Label**



**IMDG**

**Class**

3 Flammable liquids.

**Label**



**IATA**

**Class**

3 Flammable liquids.

**Label**



- Packing group

**ADR**

III

**IMDG**

III

**IATA**

III

- Environmental hazards:

**Marine pollutant:**

Yes

- Special precautions for user  
Warning: Flammable liquids.

**Danger code (Kemler):**

30

**EMS Number:**

F-E,S-D

- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code  
Not applicable.

- Transport/Additional information:

**Excepted quantities (EQ):**

E1

**Limited quantities (LQ)**

5L

**Transport category**

3

**Tunnel restriction code**

D/E

- UN "Model Regulation":

UN 1266 PERFUMERY PRODUCTS, 3, III, ENVIRONMENTALLY HAZARDOUS

## 15 Regulatory information

- National regulations:

- Waterhazard class:

Water hazard class 2 (Self-assessment): hazardous for water.

2. Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

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### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### 1. Relevant phrases

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H227	Combustible liquid.
H302	Harmful if swallowed.
H303	May be harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H313	May be harmful in contact with skin.
H315	Causes skin irritation.
H316	Causes mild skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H401	Toxic to aquatic life.
H402	Harmful 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.
R 36/38	Irritating to eyes and skin.
R 51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 10	Flammable.
R 11	Highly flammable.
R 22	Harmful if swallowed.
R 36	Irritating to eyes.
R 38	Irritating to skin.
R 43	May cause sensitisation by skin contact.
R 50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 65	Harmful: may cause lung damage if swallowed.

2. Department issuing MSDS:  
Legislation / Regulatory Affair Department

#### 3. Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
ICAO: International Civil Aviation Organization  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent

#### 4. Sources

RIFM Database  
Suppliers Information  
REACH registration dossier  
IFRA/IOFI Labelling Manual

- \* Data compared to the previous version altered.