

## Material Safety Data Sheet

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

#### 1.1. Product identifier

Product name RED MANDARIN OIL - MANDARIN, EXT. CE. 284-521-0  
Registration number Phase-in substance, registration deadline 2018 (art. 23 Regulation 1907/2006)

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

Perfumery, Flavouring

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

Name BALLER s.r.l.  
Full Address S.S. 114 km 4,600 Pistunina  
District and Country 98125 Messina/Italia

e-mail address of the competent person,  
responsible for the Safety Data Sheet Mrs Paola Billè  
[info@baller1828.com](mailto:info@baller1828.com)

#### 1.4. Emergency telephone number

For urgent inquiries refer to 0039 090 633976 during office hours

### 2. Hazard identification

#### 2.1 Classification of the substance

The product is classified as hazardous pursuant to the provisions set forth in Directive 67/548/EEC and EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

##### 2.1.1. Regulation 1272/2008 (CLP) and following amendments and adjustments.

Hazard classification and indication:

|                   |      |
|-------------------|------|
| Flam. Liq. 3      | H226 |
| Asp. Tox. 1       | H304 |
| Skin Irrit. 2     | H315 |
| Skin Sens. 1      | H317 |
| Aquatic Acute 1   | H400 |
| Aquatic Chronic 1 | H410 |

##### 2.1.2. Directive 67/548/CEE e following amendments and adjustments.

Danger Symbols: Xn-N  
R Phrases: 10-38-43-50/53-65

The full wording of the Risk (R) and hazard (H) phrases is given in section 16 of the sheet.



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## 2.2 Label elements.

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Pictograms:



Warning:            Danger

Hazard indication:

**H226** Flammable liquid and vapour.  
**H304** May be fatal if swallowed and enters airways.  
**H315** Causes skin irritation.  
**H317** May cause an allergic skin reaction.  
**H410** Very toxic to aquatic life with long lasting effects.

Caution recommendations:

**P210** Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
**P331** Do NOT induce vomiting.  
**P280** Wear protective gloves/protective clothing/eye protection/face protection.  
**P301+P310** IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
**P303+P361+P353** IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
**P501** Dispose of contents/container in accordance with all local/national regulation.

Contains:            **Mandarin, ext.**

Nr. EC:                284-521-0

## 2.3. Other hazards.

Information not available.

## 3. Composition / Information on ingredients

### 3.1. Substance

| Identification.       | Conc. %. | Classification 67/548/CEE.            | Classification 1272/2008 (CLP).           |
|-----------------------|----------|---------------------------------------|---|
| <b>MANDARIN, EXT.</b> |          |                                       |   |
| CAS. 8008-31-9        | 100      | R10, Xn R65, Xi R38, Xi R43, N R50/53 | Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin |
| EC. 284-521-0         |          |                                       | Irrit. 2 H315, Skin Sens. 1 H317, Aquatic |
| INDEX. -              |          |                                       | Chronic 1 H410, Aquatic Acute 1 H400      |
| Nr. Reg.              |          |                                       |   |

T+ = Very Toxic, T = Toxic, Xn = Harmful, C = Corrosive, Xi = Irritant, O = Oxidising, E = Explosive, F+ = Extremely flammable, F = Highly flammable

The full wording of the Risk (R) and hazard (H) phrases is given in section 16 of the sheet.

### 3.2. Mixtures.

Information not relevant.



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## 4. First aid measures

### 4.1. Description of first aid measures.

**EYES:** Irrigate copiously with clean, fresh water for at least 15 minutes. Seek medical advice.

**SKIN:** Wash immediately with plenty of water. Remove contaminated clothing. If irritation persists, seek medical attention. Wash contaminated clothing before using them again.

**INHALATION:** Remove to open air. If breathing is irregular, seek medical advice.

**INGESTION:** Obtain immediate medical attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person.

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

For symptoms and effects caused by the contained substances see chap. 11.

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

Follow doctor's orders.

## 5. Firefighting measures

### 5.1. Extinguishing media.

#### SUITABLE EXTINGUISHING MEDIA

The extinction equipment should contain carbon dioxide, foam or chemical powders. For product leaks and spills that have not caught fire, nebulised water can be used to disperse flammable fumes and protect the individuals taking part in stemming the leak.

#### EXTINGUISHING MEDIA WHICH SHALL NOT BE USED FOR SAFETY REASONS

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

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

#### HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion.

Do not breathe combustion products (carbon oxide, toxic pyrolysis products, etc).

### 5.3. Advice for firefighters

#### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water and the remains of the fire according to applicable regulations.

#### SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Hardhat with visor, fireproof clothing (fireproof jacket and trousers with ties around arms, legs and waist) work gloves (fireproof, cut proof and dielectric), self-respirator (self-protector).

## 6. Accidental release measures.

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

Eliminate sources of ignition (cigarettes, flames, sparks, etc.) from the area in which the leak occurred. If there are no contraindications, spray solid products with water to prevent the formation of dust. Use breathing equipment if fumes or powders are released into the air. Block the leakage if there is no hazard. Do not handle damaged containers or leaked product before donning appropriate protective gear. Send away individuals who are not suitably equipped. For information on risks for the environmental and health, respiratory tract protection, ventilation and personal protection equipment, refer to the other sections of this sheet.

### 6.2. Environmental precautions.

The product must not penetrate the sewers, surface water, ground water and neighbouring areas.



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

For liquid products, suck into a suitable container (made of material not incompatible with the product) and soak up any leaked product with absorbent inert material (sand, vermiculite, diatomaceous earth, Kieselguhr, etc). Collect the majority of the remaining material and deposit in containers for disposal. For solid products, use spark proof mechanical tools to collect the leaked product and place in plastic containers. If there are no contraindications, use jets of water to eliminate product residues. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

## 6.4. Reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.

## 7. Handling and storage

### 7.1. Precautions for safe handling.

Do not smoke while handling and use.

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

Store in a well ventilated place, keep far away from sources of heat, bright flames and sparks and other sources of ignition. Use explosion-proof electrical/ventilating/lighting equipment.

### 7.3. Specific end use(s).

Information not available.

## 8. Exposure controls/personal protection.

### 8.1. Control parameters.

Information not available.

### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protection equipment, make sure that the workplace is well aired through effective local aspiration or bad air vent. If such operations do not make it possible to keep the concentration of the product below the permitted workplace exposure thresholds a suitable respiratory tract protection must be used. See product label for hazard details during use. Ask your chemical substance suppliers for advice when choosing personal protection equipment. Personal protection equipment must comply with the rules in force indicated below.

#### HAND PROTECTION

Protect hands with category II (ref. Directive 89/686/EEC and standard EN 374) work gloves, such as those in PVC, neoprene, nitril or equivalent. The following should be considered when choosing work glove material: degradation, breakage times and permeation. Work glove resistance to preparations should be checked before use, as it can be unpredictable. Gloves' limit depends on the duration of exposure.

#### EYE PROTECTION

Wear protective airtight goggles (ref. standard EN 166).

#### SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (ref. Directive 89/686/CEE and standard EN 344). Wash body with soap and water after removing overalls.

#### RESPIRATORY PROTECTION

If the threshold value for one or more of the substances present in the preparation for daily exposure in the workplace or to a fraction established by the company's prevention and protection service is exceeded, wear a mask with an B or universal filter, the class (1, 2 or 3) of which must be chosen according to the limit concentration of use (ref. standard EN 141). The use of breathing protection equipment, such as masks with organic vapour and dust/mist cartridges, is necessary in the absence of technical measures limiting worker exposure. The protection provided by masks is in any case limited. If the substance in question is odourless or its olfactory threshold is higher than the relative exposure limit and in the event of an emergency, or when exposure levels are unknown or the concentration of oxygen in the workplace is less than 17% volume, wear self-contained, open-circuit compressed air breathing apparatus (ref. standard EN 137) or fresh air hose breathing apparatus for use with full



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face mask, half mask or mouthpiece (ref. standard EN 138). An emergency eye washing and shower system must be provided.

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

## 9. Physical and chemical properties

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

|   |                            |
|---|----------------------------|
| Physical state                          | Liquid                     |
| Color                                   | Dark orange to reddish     |
| Odor                                    | Characteristic             |
| Odor threshold                          | Not available              |
| pH                                      | Not available              |
| Melting or freezing point.              | Not available              |
| Bolling point.                          | 175°C                      |
| Distillation range.                     | Not available              |
| Flashpoint.                             | 49°C.Method Pensky-Martens |
| Evaporation speed                       | Not available              |
| Lower inflammability limit.             | Not available              |
| Upper inflammability limit..            | Not available              |
| Lower explosive limit.                  | Not available              |
| Upper explosive limit                   | Not available              |
| Vapour pressure.                        | Not available              |
| Vapour density                          | Not available              |
| Specific gravity                        | 0,8500-0,8550 kg/l         |
| Solubility                              | Insoluble in water         |
| Partition coefficient: n-octanol/water: | Not available              |
| Ignition temperature.                   | Not available              |
| Decomposition temperature.              | Not available              |
| Comburent properties                    | Not available              |
| Viscosity                               | Not available              |
| Reactive Properties                     | Not available              |

## 10. Stability and reactivity

### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

### 10.2. Chemical stability.

The product is stable in normal conditions of use and storage.

### 10.3. Possibility of hazardous reactions.

No hazardous reactions are foreseeable in normal conditions of use and storage.

### 10.4. Conditions to avoid.

None in particular, however the usual precautions used for chemical products should be respected.

### 10.5. Incompatible materials.

Information not available

### 10.6. Hazardous decomposition products.

In the event of thermal decomposition or fire, vapours potentially dangerous to health may be released.



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## 11. Toxicological information.

### 11.1. Information on toxicological effects.

Acute effects: contact with skin may cause: irritation, erythema, edema, dryness and chapped skin. Vapour inhalation may slightly irritate the upper respiratory tract. Ingestion may cause health disorders, including stomach pain and sting, nausea and sickness. Upon contact with skin, this product causes sensitization (dermatitis). Dermatitis derives from skin irritation on the areas which repeatedly come into contact with the sensitizing agent. Cutaneous lesions may include: erythemas, edemas, papules, vesicles, pustules, scurries, ulcerations and exudative phenomena, whose intensity varies according to illness seriousness and affected areas. Erythemas, edemas and exudative phenomena prevail during the acute phase. Scurry skin, dryness, ulcerations and skin thickening prevail during the chronic phase. The introduction of even small quantities of this liquid into the respiratory system in case of ingestion or vomit may cause bronchopneumonia and pulmonary edema.

## 12. Ecological information

This product is dangerous for the environment and highly toxic for aquatic organisms. In the long term, it may even have negative effects on aquatic environment.

### 12.1. Toxicity.

See section 2

### 12.2. Persistence and degradability

INFORMATION NOT AVAILABLE

### 12.3. Bioaccumulative potential.

INFORMATION NOT AVAILABLE

### 12.4. Mobility in soil.

Information not available.

### 12.5. Results of PBT and vPvB assessment

Information not available.

### 12.6. Other adverse effects.

Information not available.

## 13. Disposal considerations

### 13.1. Waste treatment methods.

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations. Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

#### CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

## 14. Transport information

These goods must be transported by vehicles authorized to the carriage of dangerous goods according to the provisions set out in the current edition of the Code of International Carriage of dangerous Goods by Road (ADR) and in all the applicable national regulations. These goods must be packed in their original packagings or in packagings made of materials resistant to their content and not reacting dangerously with it. People loading and unloading dangerous goods must be trained on all the risks deriving from these substances and on all actions that must be taken in case of emergency situations.



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## Road and rail transport:

ADR/RID Class: 3  
UN: 1169  
Packing Group: III  
Label: 3  
Nr. Kemler: 30  
Limited Quantity: 5L  
Tunnel restriction code: (D/E)  
Proper Shipping Name: EXTRACTS, AROMATIC, LIQUID



## Carriage by sea (shipping):

IMO Class: 3  
UN: 1169  
Packing Group: III  
Label: 3  
EMS: F-E, S-D  
Marine Pollutant: YES  
Proper Shipping Name: EXTRACTS, AROMATIC, LIQUID



## Transport by air:

IATA: 3  
UN: 1169  
Packing Group: III  
Label: 3  
Cargo:  
Packaging instructions: 366  
Maximum quantity: 220 L  
Pass.:  
Packaging instructions: 355  
Maximum quantity: 60 L  
Special Instructions:  
Proper Shipping Name: EXTRACTS, AROMATIC, LIQUID



## 15. Regulatory information

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

Seveso category. 9i, 6.

Restrictions relating to the <sup>P</sup>roduct or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product.  
Point 3 - 40.

Substances in Candidate List (Art. 59 REACH).  
None.

Sostanze soggette ad autorizzazione (Allegato XIV REACH).  
None.

### Healthcare controls.

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.



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## 15.2. Chemical safety assessment.

No chemical safety assessment has been processed for the this substance.  
Phase-in substance, registration deadline 2018 (art. 23 Regulation 1907/2006)

## 16. Other information.

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

**Flam. Liq. 3** Flammable liquid, category 3

**Asp. Tox. 1** Aspiration hazard, category 1

**Skin Irrit. 2** Skin irritation, category 2

**Skin Sens. 1** Respiratory/skin sensitization, category 1

**Aquatic Acute 1** Hazardous to the aquatic environment, acute toxicity category 1

**Aquatic Chronic 1** Hazardous to the aquatic environment, chronic toxicity category 1

**H226** Flammable liquid and vapour.

**H304** May be fatal if swallowed and enters airways.

**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.

Text of risk (R) phrases mentioned in section 2-3 of the sheet:

**R10** FLAMMABLE.

**R38** IRRITATING TO SKIN.

**R43** MAY CAUSE SENSITIZATION BY SKIN CONTACT.

**R50/53** VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

**R65** HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED.

## GENERAL BIBLIOGRAPHY

1. Directive 67/548/EEC and following amendments and adjustments
2. Regulation (EC) 1907/2006 (REACH) of the European Parliament
3. Regulation (EC) 1272/2008 (CLP) of the European Parliament
4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
5. Regulation (EC) 453/2010 of the European Parliament
6. The Merck Index. - 10th Edition
7. Handling Chemical Safety
8. Niosh - Registry of Toxic Effects of Chemical Substances
9. INRS - Fiche Toxicologique (toxicological sheet)
10. Patty - Industrial Hygiene and Toxicology
11. N.I. Sax - Dangers properties of Industrial Materiale-7, 1989 Edition

### Note for users:

*The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product. This document must not be regarded as a guarantee on any specific product property.*

*The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.*

### Changes to previous review:

*The following sections were modified: 1.1 -1.4 - 2.1.1. - 2.2 – 3.1 – 14 – 15.2 -16*