

Page 1/10

## Safety data sheet

## according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.05.2024 Version number 1 Revision: 22.05.2024

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

#### 1.1 Product identifier

Trade name: MANDARINE 12116/44

Article number: 23627700

UFI

7E6E-61MX-U00E-H9RH

The product does not contain any nanomaterials.

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

Life cycle stages IS Use at industrial Sites

Sector of Use SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

Product category PC28 Perfumes, fragrances

**Technical function** Food flavouring

Application of the substance / the mixture

Flavouring agents

Food

Uses advised against Not for personal use in this form or concentration

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

#### Manufacturer/Supplier:

VIORYL S.A.

28th km Athens - Lamia Nat. Road

Afidnes, 190 14

Greece

+30 22950 45100

regulatory@vioryl.gr

Further information obtainable from: Regulatory Affairs Department

1.4 Emergency telephone number:

Poison centre

(+30) 210 7793777

#### **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS08 health hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



Page 2/10

## Safety data sheet

## according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.05.2024 Version number 1 Revision: 22.05.2024

Trade name: MANDARINE 12116/44

(Contd. of page 1)



Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

#### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008** The product is classified and labelled according to the CLP regulation. **Hazard pictograms** 









GHS02

GHS07

GHSUS

GHS09

#### Signal word Danger

#### Hazard-determining components of labelling:

(R)-p-mentha-1,8-diene

Mandarine oil (Citrus nobilis peel oil expressed) Citrus aurantium dulcis peel oil (orange oil)

### Hazard statements

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H304 May be fatal if swallowed and enters airways.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

#### **Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P321 Specific treatment (see on this label).

P331 Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

#### 2.3 Other hazards

#### Results of PBT and vPvB assessment

**PBT:** Not applicable. **vPvB:** Not applicable.

### **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

**Description:** Mixture of substances listed below with nonhazardous additions.

(Contd. on page 3)



Page 3/10

## Safety data sheet

## according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.05.2024 Version number 1 Revision: 22.05.2024

Trade name: MANDARINE 12116/44

(Contd. of page 2)

#### **Dangerous components:**

CAS: 5989-27-5 (R)-p-mentha-1,8-diene >50–≤100%

EINECS: 227-813-5 🕟 Flam. Liq. 3, H226; 🗞 Asp. Tox. 1, H304; 🕸 Aquatic Acute 1, H400 (M=1); 🗘 Skin Irrit.

2, H315; Skin Sens. 1B, H317; Aquatic Chronic 3, H412

CAS: 84929-38-4 Mandarine oil (Citrus nobilis peel oil expressed) >25–≤50%

EINECS: 284-521-0 🌑 Flam. Liq. 3, H226; 🗞 Asp. Tox. 1, H304; 🕸 Aquatic Chronic 2, H411; 🕦 Skin Irrit. 2,

H315; Skin Sens. 1, H317

CAS: 8008-57-9 Citrus aurantium dulcis peel oil (orange oil) >2.5—<10%

EC number: 616-926-9 🚸 Flam. Liq. 3, H226; 🗞 Asp. Tox. 1, H304; 🕸 Aquatic Chronic 2, H411; 🕔 Skin Irrit. 2,

H315; Skin Sens. 1, H317

CAS: 85-91-6 Methyl N-methylanthranilate >2.5—<10%

perfumes

Additional information: For the wording of the listed hazard phrases refer to section 16.

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

### **General information:**

Immediately remove any clothing soiled by the product.

Take affected persons out into the fresh air.

#### After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

### After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

#### After swallowing:

If symptoms persist consult doctor.

A person vomiting while laying on their back should be turned onto their side.

Seek immediate medical advice.

- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

#### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture No further relevant information available.

5.3 Advice for firefighters

Protective equipment: No special measures required.

#### **SECTION 6: Accidental release measures**

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

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation



Page 4/10

## Safety data sheet

## according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.05.2024 Version number 1 Revision: 22.05.2024

Trade name: MANDARINE 12116/44

(Contd. of page 3)

Keep away from ignition sources.

Wear protective clothing.

#### 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

#### 6.3 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 section 13.

Ensure adequate ventilation.

#### 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

#### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Keep receptacles tightly sealed.

Store in cool, dry place in tightly closed receptacles.

Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

#### Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

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

#### Storage:

Requirements to be met by storerooms and receptacles: Store in a cool location.

Information about storage in one common storage facility: Store away from foodstuffs.

#### Further information about storage conditions:

Keep container tightly sealed.

Store receptacle in a well ventilated area.

7.3 Specific end use(s) No further relevant information available.

### **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

#### Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**Additional information:** The lists valid during the making were used as basis.

#### 8.2 Exposure controls

**Appropriate engineering controls** No further data; see section 7.

Individual protection measures, such as personal protective equipment

#### General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the skin.



Page 5/10

## Safety data sheet

## according to Regulation (EC) No 1907/2006, Article 31

Version number 1 Printing date 22.05.2024 Revision: 22.05.2024

Trade name: MANDARINE 12116/44

(Contd. of page 4)

Avoid contact with the eyes and skin.

#### Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

#### Hand protection



The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### Eye/face protection



#### **SECTION 9: Physical and chemical properties**

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

**General Information** 

**Physical state** Fluid

Colour: Dark yellow to orange

Odour: Characteristic **Odour threshold:** Not determined. Melting point/freezing point: Undetermined.

Boiling point or initial boiling point and boiling range 36 °C (CAS: 84929-38-4 Mandarine oil (Citrus nobilis peel oil

> expressed)) Flammable.

**Flammability** 

Lower and upper explosion limit

0.7 Vol % (CAS: 5989-27-5 (R)-p-mentha-1,8-diene) Lower: Upper: 6.1 Vol % (CAS: 5989-27-5 (R)-p-mentha-1,8-diene)

Flash point: 54-56 °C (CAS: 8008-57-9 Citrus aurantium dulcis peel oil (orange

**Auto-ignition temperature:** 235 °C (CAS: 84929-38-4 Mandarine oil (Citrus nobilis peel oil

expressed))

**Decomposition temperature:** Not determined.

Mixture is non-soluble (in water). рΗ

Viscosity:

Kinematic viscosity Not determined. Not determined. Dynamic:

(Contd. on page 6)



Page 6/10

## Safety data sheet

## according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.05.2024 Version number 1 Revision: 22.05.2024

Trade name: MANDARINE 12116/44

(Contd. of page 5)

Solubility

water:Insoluble (10%)alcohols:Partly soluble.Partition coefficient n-octanol/water (log value)Not determined.

**Vapour pressure at 20 °C:** 2.3 hPa (CAS: 5989-27-5 (R)-p-mentha-1,8-diene)

Density and/or relative density

Density at 20 °C:0.831–0.871 g/cm³Relative densityNot determined.Vapour densityNot determined.

9.2 Other information

**Appearance:** 

Form: Oily

Important information on protection of health and

environment, and on safety.

**Ignition temperature:** Product is not selfigniting.

**Explosive properties:** Product is not explosive. However, formation of explosive air/vapour

mixtures are possible.

Solvent content:

 Organic solvents:
 54.4 %

 VOC (EC)
 54.38 %

 VOCV (CH)
 54.38 %

 Solids content:
 0.0 %

 Refractive index
 1.467-1.477

**Change in condition** 

Flammable solids

**Evaporation rate** Not determined.

Information with regard to physical hazard classes

ExplosivesVoidFlammable gasesVoidAerosolsVoidOxidising gasesVoidGases under pressureVoid

Flammable liquids Flammable liquid and vapour.

Self-reactive substances and mixtures Void **Pyrophoric liquids** Void **Pyrophoric solids** Void Self-heating substances and mixtures Void Substances and mixtures, which emit flammable gases in contact with water Void **Oxidising liquids** Void **Oxidising solids** Void **Organic peroxides** Void **Corrosive to metals** Void **Desensitised explosives** Void

#### **SECTION 10: Stability and reactivity**

**10.1 Reactivity** No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications.

Void



Page 7/10

## Safety data sheet

## according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.05.2024 Version number 1 Revision: 22.05.2024

Trade name: MANDARINE 12116/44

(Contd. of page 6)

**10.3 Possibility of hazardous reactions** No dangerous reactions known.

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

#### **SECTION 11: Toxicological information**

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

CAS: 5989-27-5 (R)-p-mentha-1,8-diene

Oral LD50 4400 mg/kg (rat)

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

**Reproductive toxicity** Based on available data, the classification criteria are not met.

**STOT-single exposure** Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

**Aspiration hazard** May be fatal if swallowed and enters airways.

11.2 Information on other hazards

**Endocrine disrupting properties** 

CAS: 25013-16-5 tert-butyl-4-methoxyphenol (BHA): List II; III

### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment

**PBT:** Not applicable.

vPvB: Not applicable.

12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.

12.7 Other adverse effects

Remark:

Very toxic for fish Toxic for fish

Additional ecological information:

#### **General notes:**

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

Toxic for aquatic organisms

(Contd. on page 8)



Page 8/10

## Safety data sheet

## according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.05.2024 Version number 1 Revision: 22.05.2024

Trade name: MANDARINE 12116/44

(Contd. of page 7)

#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

**Recommendation** Must not be disposed together with household garbage. Do not allow product to reach sewage system. **European waste catalogue** 

HP3 Flammable

HP4 Irritant - skin irritation and eye damage

HP13 Sensitising HP14 Ecotoxic

**Uncleaned packaging:** 

Recommendation: Disposal must be made according to official regulations.

#### **SECTION 14: Transport information**

14.1 UN number or ID number

ADR, IMDG, IATA UN1197

14.2 UN proper shipping name

ADR 1197 EXTRACTS, LIQUID, ENVIRONMENTALLY HAZARDOUS

**IMDG** EXTRACTS, LIQUID, MARINE POLLUTANT

IATA Extracts, liquid

14.3 Transport hazard class(es)

ADR, IMDG





Class 3 Flammable liquids.

Label

IATA



Class 3 Flammable liquids.

Label 3

14.4 Packing group

ADR, IMDG, IATA

**14.5 Environmental hazards:** Product contains environmentally hazardous substances: (R)-p-mentha-1,8-

diene

Marine pollutant:Symbol (fish and tree)Special marking (ADR):Symbol (fish and tree)14.6 Special precautions for userWarning: Flammable liquids.

Hazard identification number (Kemler code): 30
EMS Number: F-E,S-D
Stowage Category A

14.7 Maritime transport in bulk according to IMO

instruments Not applicable.

(Contd. on page 9)



Page 9/10

## Safety data sheet

## according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.05.2024 Version number 1 Revision: 22.05.2024

Trade name: MANDARINE 12116/44

(Contd. of page 8)

**Transport/Additional information:** 

ΔDR

Limited quantities (LQ) 5L

Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

Transport category 3
Tunnel restriction code D/E

**IMDG** 

Limited quantities (LQ) 5L Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

UN 1197 EXTRACTS, LIQUID, 3, III, ENVIRONMENTALLY HAZARDOUS

### **SECTION 15: Regulatory information**

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

**Seveso category** 

E1 Hazardous to the Aquatic Environment

P5c FLAMMABLE LIQUIDS

Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t

Qualifying quantity (tonnes) for the application of upper-tier requirements  $200\ t$ 

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

**REGULATION (EU) 2019/1148** 

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

#### **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **SECTION 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.

This Safety Data Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

(Contd. on page 10)



Page 10/10

## Safety data sheet

## according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.05.2024 Version number 1 Revision: 22.05.2024

Trade name: MANDARINE 12116/44

(Contd. of page 9)

#### Relevant phrases

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.

H319 Causes serious eye irritation.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

#### Department issuing SDS: Regulatory Affairs department

Contact:

Regulatory Affairs department

regulatory@vioryl.gr

Date of previous version: 22.05.2024

#### Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of

Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

**ELINCS: European List of Notified Chemical Substances** 

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweiz (Swiss Ordinance on volatile organic compounds)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

ATE: Acute toxicity estimate values

Flam. Lig. 3: Flammable liquids - Category 3

Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation - Category 1 Skin Sens. 1B: Skin sensitisation - Category 1B

Asp. Tox. 1: Aspiration hazard - Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

\* Data compared to the previous version altered.