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

1.1. Product identifier

Mixture identification: premix  
Trade name: VéO® PREMIUM  
Trade code: VEO

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

1.3. Details of the supplier of the safety data sheet

Company:  
LABORATOIRES PHODE SAS  
Albipôle  
81 150 TERSSAC  
FRANCE

tél : 33 (0)5 63 77 80 60 (office hours)

Competent person responsible for the safety data sheet:

1.4. Emergency telephone number

tél : 33 (0)5 63 77 80 60 (office hours)

For emergency number in your country, please contact relevant local authorities and see on ECHA (European Chemicals Agency) website:

<http://echa.europa.eu/en/web/guest/support/helpdesks/national-helpdesks/list-of-national-helpdesks>



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## **SECTION 2: Hazards identification**

2.1. Classification of the substance or mixture

Directive criteria, 67/548/CE, 99/45/EC and following amendments thereof:

Properties / Symbols:

-  Xn Harmful
-  N Dangerous for the environment

R Phrases:



- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R65 Harmful: may cause lung damage if swallowed.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Symbols:

-  Xn Harmful
-  N Dangerous for the environment

R Phrases:

- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R65 Harmful: may cause lung damage if swallowed.

S Phrases:

- S25 Avoid contact with eyes.

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- S36/37 Wear suitable protective clothing and gloves.  
S56 Dispose of this material and its container to hazardous or special waste collection point.  
S57 Use appropriate container to avoid environmental contamination.  
S60 This material and its container must be disposed of as hazardous waste.  
S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

### Contents

- orange oil  
dipentene; limonene;: May produce an allergic reaction.  
citral: May produce an allergic reaction.

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

### 2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

N.A.

### 3.2. Mixtures

Hazardous components within the meaning of EEC directive 67/548 and CLP regulation and related classification:

>= 5% - < 15% orange oil

CAS: 8028-48-6, EC: 232-433-8

Xn,Xi,N; R10-38-43-65-50/53

⚠ 2.6/3 Flam. Liq. 3 H226

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.4.2/1-1A-1B Skin Sens. 1, 1A, 1B H317

⚠ 3.10/1 Asp. Tox. 1 H304

⚠ 4.1/C1 Aquatic Chronic 1 H410

>= 0.01% - < 0.5% CITRONELLYL ACETATE

CAS: 150-84-5, EC: 205-775-0

Xi,N; R38-51/53

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 4.1/C2 Aquatic Chronic 2 H411

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do NOT induce vomiting.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

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None

- 4.3. Indication of any immediate medical attention and special treatment needed  
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).  
Treatment:  
None

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### SECTION 5: Firefighting measures

- 5.1. Extinguishing media  
Suitable extinguishing media:  
Water.  
Carbon dioxide (CO<sub>2</sub>).  
Extinguishing media which must not be used for safety reasons:  
None in particular.
- 5.2. Special hazards arising from the substance or mixture  
Do not inhale explosion and combustion gases.  
Burning produces heavy smoke.
- 5.3. Advice for firefighters  
Use suitable breathing apparatus .  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Move undamaged containers from immediate hazard area if it can be done safely.

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### SECTION 6: Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures  
Wear personal protection equipment.  
Remove persons to safety.  
See protective measures under point 7 and 8.
- 6.2. Environmental precautions  
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.  
Retain contaminated washing water and dispose it.  
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.  
Suitable material for taking up: absorbing material, organic, sand
- 6.3. Methods and material for containment and cleaning up  
Wash with plenty of water.
- 6.4. Reference to other sections  
See also section 8 and 13

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### SECTION 7: Handling and storage

- 7.1. Precautions for safe handling  
Avoid contact with skin and eyes, inhalation of vapours and mists.  
Don't use empty container before they have been cleaned.  
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.  
Contaminated clothing should be changed before entering eating areas.  
Do not eat or drink while working.  
See also section 8 for recommended protective equipment.
- 7.2. Conditions for safe storage, including any incompatibilities

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Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

### 7.3. Specific end use(s)

None in particular

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No occupational exposure limit available

#### DNEL Exposure Limit Values

CITRONELLYL ACETATE - CAS: 150-84-5

Worker Industry: 4.8 mg/kg bw/day - Worker Professional: 4.8 mg/kg bw/day - Consumer: 2.4 mg/kg bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 17 mg/m<sup>3</sup> - Worker Professional: 17 mg/m<sup>3</sup> - Consumer: 4.2 mg/m<sup>3</sup> -

Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 2.4 mg/kg bw/day - Exposure: Human Oral - Frequency: Long Term, systemic effects

#### PNEC Exposure Limit Values

CITRONELLYL ACETATE - CAS: 150-84-5

Target: Soil (agricultural) - Value: 0.168 mg/kg

Target: Fresh Water - Value: 0.00348 mg/l

Target: Marine water - Value: 0.000348 mg/l

Target: Intermittent releases - Value: 0.0348 mg/l

Target: Freshwater sediments - Value: 0.851 mg/kg

Target: Marine water sediments - Value: 0.0851 mg/kg

Target: Intermittent releases - Value: 10 mg/l

### 8.2. Exposure controls

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Not needed for normal use.

Thermal Hazards:

None

Environmental exposure controls:

None

## SECTION 9: Physical and chemical properties

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

Appearance and colour: Poudre ivoire

Odour: characteristic

Odour threshold: N.A.

pH: N.A.

Melting point / freezing point: N.A.

Initial boiling point and boiling range: N.A.

Solid/gas flammability: N.A.

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A.

Flash point: N.A.

Evaporation rate: N.A.

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Vapour pressure:	N.A.
Relative density:	0.50 +/- 0.05
Solubility in water:	N.A.
Solubility in oil:	N.A.
Partition coefficient (n-octanol/water):	N.A.
Auto-ignition temperature:	N.A.
Decomposition temperature:	N.A.
Viscosity:	N.A.
Explosive properties:	N.A.
Oxidizing properties:	N.A.

### 9.2. Other information

Miscibility:	N.A.
Fat Solubility:	N.A.
Conductivity:	N.A.
Substance Groups relevant properties	N.A.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions

### 10.2. Chemical stability

Stable under normal conditions

### 10.3. Possibility of hazardous reactions

None

### 10.4. Conditions to avoid

Stable under normal conditions.

### 10.5. Incompatible materials

None in particular.

### 10.6. Hazardous decomposition products

None.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Toxicological information of the mixture:

N.A.

Toxicological information of the main substances found in the mixture:

orange oil - CAS: 8028-48-6

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 4400 mg/kg - Notes: Limonene

Test: LD50 - Route: Skin - Species: Rabbit = 5005 mg/kg - Notes: Limonene

Test: LD50 - Route: Oral - Species: Rat = 4950 mg/kg - Notes: Citral

Test: LD50 - Route: Skin - Species: Rabbit = 2250 mg/kg - Notes: Citral

Test: LD50 - Route: Oral - Species: Rat = 2420 mg/kg - Notes: Citronelhal

Test: LD50 - Route: Skin - Species: Rabbit = 2500 mg/kg - Notes: Citronelhal

LINALOL - CAS: 78-70-6

a) acute toxicity:

Test: LD50 - Route: Oral = 2790 mg/kg

Test: LD50 - Route: Skin = 5610 mg/kg

dipentene; limonene; - CAS: 5989-27-5

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 4400 mg/kg

BETA IONONE 95% - CAS: 14901-07-6

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- a) acute toxicity:  
Test: LD50 - Route: Oral - Species: Rat = 4590 mg/kg  
CITRONELLYL ACETATE - CAS: 150-84-5
- a) acute toxicity:  
Test: LD50 - Route: Oral - Species: Rat = 6800 mg/kg  
Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg
- b) skin corrosion/irritation:  
Test: Skin Corrosive - Route: Skin - Species: Rabbit Yes
- e) germ cell mutagenicity:  
Test: Mutagenesis No
- f) carcinogenicity:  
Test: Carcinogenicity No
- g) reproductive toxicity:  
Test: Reproductive Toxicity No  
citral - CAS: 5392-40-5  
LD50 (RAT) ORAL: 4960 MG/KG

If not differently specified, the information required in Regulation 453/2010/EC listed below must be considered as N.A.:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

## SECTION 12: Ecological information

### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.  
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
orange oil - CAS: 8028-48-6

- a) Aquatic acute toxicity:  
Endpoint: LC50 Fish = 0.619-0.796 mg/l - Duration h: 96 - Notes: Pimephales promelas (espèce) Limonene (substance)  
Endpoint: LC50 Fish > 35 mg/l - Duration h: 96 - Notes: Oncorhynchus mykiss (espèce) limonene (substance)  
Endpoint: LC50 Fish > 4.6-10 mg/l - Duration h: 96 - Notes: Citral  
Endpoint: EC50 Daphnia = 7 mg/l - Duration h: 48 - Notes: Citral

- e) Plant toxicity:  
Endpoint: EC50 Algae = 16 mg/l - Duration h: 72 - Notes: Citral  
Endpoint: EC50 Algae = 19 mg/l - Duration h: 96 - Notes: Citral

dipentene; limonene; - CAS: 5989-27-5

- a) Aquatic acute toxicity:  
Endpoint: LC50 Fish 0.619-0796 mg/l - Duration h: 96 - Notes: flow through  
CITRONELLYL ACETATE - CAS: 150-84-5

- a) Aquatic acute toxicity:  
Endpoint: LC50 Fish = 6.1 mg/l - Duration h: 96 - Notes: Ligne directrice OCDE 203  
Endpoint: EC20 Activated sludges > 1000 mg/l - Duration h: 0.5 - Notes: Ligne directrice OCDE 209

### 12.2. Persistence and degradability

CITRONELLYL ACETATE - CAS: 150-84-5

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Biodegradability: Readily biodegradable - Test: N.A. - Duration: N.A. - %: N.A. - Notes: N.A.

- 12.3. Bioaccumulative potential  
N.A.
- 12.4. Mobility in soil  
N.A.
- 12.5. Results of PBT and vPvB assessment  
vPvB Substances: None - PBT Substances: None
- 12.6. Other adverse effects  
None

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### SECTION 13: Disposal considerations

- 13.1. Waste treatment methods  
Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

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### SECTION 14: Transport information

- 14.1. UN number  
Not classified as dangerous in the meaning of transport regulations.  
ADR-UN number: 3077  
IMDG-Un number: 3077
- 14.2. UN proper shipping name  
ADR-Shipping Name: environmentally hazardous substance, solid, n.o.s (Terpenes)  
IMDG-Technical name: environmentally hazardous substance, solid, n.o.s (Terpenes)  
N.A.
- 14.3. Transport hazard class(es)  
ADR-Class: 9  
IMDG-Class: 9  
N.A.
- 14.4. Packing group  
ADR-Packing Group: III  
IMDG-Packing group: III  
N.A.
- 14.5. Environmental hazards  
Marine pollutant: Marine pollutant  
N.A.
- 14.6. Special precautions for user  
ADR-Tunnel Restriction Code: E  
IMDG-Technical name: environmentally hazardous substance, solid, n.o.s (Terpenes)  
N.A.
- 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code  
N.A.

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### SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture  
Dir. 67/548/EEC (Classification, packaging and labelling of dangerous substances)

Dir. 99/45/EC (Classification, packaging and labelling of dangerous preparations)  
Dir. 98/24/EC (Risks related to chemical agents at work)  
Dir. 2000/39/EC (Occupational exposure limit values)  
Dir. 2006/8/EC  
Regulation (EC) n. 1907/2006 (REACH)  
Regulation (EC) n. 1272/2008 (CLP)  
Regulation (EC) n. 790/2009 (ATP 1 CLP)  
Regulation (EU) n. 453/2010 (Annex I)  
Regulation (EU) n. 286/2011 (ATP 2 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

None

Where applicable, refer to the following regulatory provisions :

Directive 2003/105/CE ('Activities linked to risks of serious accidents') and subsequent amendments.  
Regulation (EC) nr 648/2004 (detergents).  
1999/13/EC (VOC directive)

15.2. Chemical safety assessment

No

## **SECTION 16: Other information**

Full text of phrases referred to in Section 3:

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.  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R65 Harmful: may cause lung damage if swallowed.

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.  
H410 Very toxic to aquatic life with long lasting effects.  
H319 Causes serious eye irritation.  
H412 Harmful to aquatic life with long lasting effects.  
H400 Very toxic to aquatic life.  
H411 Toxic to aquatic life with long lasting effects.

Paragraphs modified from the previous revision:

SECTION 2: Hazards identification  
SECTION 3: Composition/information on ingredients  
SECTION 8: Exposure controls/personal protection  
SECTION 9: Physical and chemical properties  
SECTION 11: Toxicological information  
SECTION 12: Ecological information

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,  
Commission of the European Communities  
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van



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## VéO® PREMIUM



Nostrand Reinold  
CCNL - Appendix 1

Insert further consulted bibliography

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
LTE:	Long-term exposure.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STE:	Short-term exposure.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWATLV:	Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
WGK:	German Water Hazard Class.

