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# LINALOOL OXYDE

# 1. SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

#### 1.1. Product identifier

Name of the substance/mixture : LINALOOL OXYDE

N° CAS TSCA : 1365-19-1

N° CE : 215-723-9 / 262-038-6

N° index REACH An VI

N° REACH (partially) : **01-2120120151-80-xxxx** 

IUPAC Name : 2-Methyl-2-Vinyl-5-(1-Hydroxy-1-Methylethyl)Tetrahydrofuran

Chemical / REACH name : 2-(Tetrahydro-5-methyl-5-vinyl-2-furyl)propan-2-ol

Molecular formula : C10 H18 O2

Molecular weight: 170,20

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

Use of the substance/mixture : Industrial use only

End use : Fragrances / Cosmetic / Flavours

1.3. Details of the supplier of the safety data sheet

SAS PCW

Aromagrasse - 45 bd Marcel Pagnol 06130 Grasse - FRANCE

Tel: +33 (0)4 92 42 35 00 Fax: +33 (0)4 92 42 35 19 Web: www.pcwfrance.com Email: info@pcwfrance.com

Technical manager: regulatory@pcwfrance.com

# 1.4. Emergency telephone number

Emergency information service of the company

+33(6) 07 85 74 60 (24h/24h)

National emergency information service

INERIS: +33(8) 20 20 18 16

Anti poison Centers in France

ORFILA: +33(1) 45 42 59 59



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# 2. SECTION 2 - HAZARDS IDENTIFICATION

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

#### **GHS Classification:**

(RegulationCLP)

Acute Tox. 4 Acute toxicity oral 4

Eye Irrit. 2 Serious eye damage / eye irritation 2

H302 - Harmful if swallowed.

H319 - Causes serious eye irritation.

#### 2.2. Label elements

#### **GHS Classification:**

(RegulationCLP)



Warning mention: Warning

Acute Tox. 4 Acute toxicity oral 4

Eye Irrit. 2 Serious eye damage / eye irritation 2

H302 - Harmful if swallowed.

H319 - Causes serious eye irritation.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor/... if you feel unwell.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P330 - Rinse mouth.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P501 - Dispose of contents/container according to the local/ regional / national / international Regulation.

#### 2.3. Other hazards

# Contains 2-(tetrahydro-5-methyl-5-vinyl-2-furyl)propan-2-ol

PBT: This substance is not considered as persistent, neither bioaccumalable

nor toxin

VPVB: This substance is not considered as very persistent nor very

bioaccumulative

VOC Swiss - Annex 1 : **Not listed** LVP-VOC / INORGANIC / EXEMPTED **100%** 

VOC (CARB):



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CMR (Reg. 1223/2009/EEC) : See certificate

# 3. SECTION 3 - COMPOSITION INFORMATION ON INGREDIENTS

#### 3.1. Substances

Material	C.A.S	EINECS	Classification	Percent %
2-(tetrahydro-5-methyl-5-vinyl-2-furyl)propan-2- ol (Regist.: N° REACH 01-2120120151-80-xxxx)	1365-19-1	215-723-9 / 262-038-6	Acute Tox. 4, Eye Irrit. 2 - H302, H319	> 50 %

#### 3.2. Mixtures

NO CONCERNED

# 4. SECTION 4 - FIRST AID MEASURES

#### 4.1. Description of first aid measures

General notes: Please refer to the risk and safety statements (section 2)

**Following inhalation:** If inhaled: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Remove collar, belt, tie... Give artificial respiration if not breathing.

**Following ingestion:** If swallowed: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.

Following skin contact: If on skin (or hair) or clothing rinse immediately contaminated clothing and skin with plenty of water

before removing clothes. If the symptom persists, consult a doctor.

**Following eye contact:** Rinse cautiously with water for several minutes (15 minutes open eyelids). Remove contact lenses, if present and easy to do. Continue rinsing. In case of disorder, consult an ophtalmologist.

**Self-protection of the first aider :** In lack of appropriate formation, none initiative should imply an individual risk.

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

See section 2

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

See section 2

# 5. SECTION 5 - FIREFIGHTING MEASURES

## 5.1. Extinguishing media

Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire. CO2, powder, foam, specific liquid.

**Unsuitable extinguishing media:** Never use a direct stream of water.



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

Flammability: The product is not flammable.

Prevention: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Particular risks linked to exposure: see section 2

### Hazardous combustion products:

Release of poison gases: Monoxide de carbone (CO), Dioxyde de carbon (CO2), Oxyde d'azotes (NOx), Dioxyde de soufre (SO2), Cyanures (CN) ....

Auto-ignition temperature (°C): 360

## 5.3. Advice for firefighters

**Fire-fighting equipment:** use an appropriate personal protective equipment with an approved positive-pressure self-contained breathing apparatus.

#### 6. SECTION 6 - ACCIDENTAL RELEASE MEASURES

# 6.1. Personal precautions, protective equipment and emergency procedures

Call immediately the emergency personnel.

Promote adequate ventilation in the area.

#### For non-emergency personnel

Keep them away from the area. Avoid all sources of ignition (spark of flame).

Avoid skin/eye contact. Do not inhal vapours.

# For emergency responders

Use personal protective equipment. In case of accidental spills, wear protective gloves during the handling.

#### 6.2. Environmental precautions

Avoid the dispersion and flow of the product. Keep away from drains, surface and ground water. Inform the competent authorities if the product enters in ground or surface waters.

# 6.3. Methods and material for containment and cleaning up

### For containment

The spillage is contained with sand or inert powder. The chemical waste is placed in sealed containers.

## For cleaning up

The soiled elements (rags, absorbent papiers, filters) are immediately soaked into water. The chemical waste are rapidly treated according to the local reglementation



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Other informations

Only qualified personnel is allowed to clean up.

#### 6.4. Reference to other sections

See section 8 for personal protective equipment and section 13 for waste treatment.

#### SECTION 7 - HANDLING AND STORAGE

## 7.1. Precautions for safe handling

# Protective measures: See section 2.2











#### Measures to prevent fire:

Do not smoke. Do not expose to excessive heat or ignition sources (spark or flame).

# Measures to prevent aerosol and dust generation:

Maintain adequate ventilation in the area.

# Measures to protect the environment:

Avoid spreading product and keep it from spilling. Precautions or coming in contact with the ground, waterways, drains and vents.

# Advice on general occupational hygiene:

Follow the general hygiene rules.

Precautions of use: Avoid any direct contact with the product.

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

Storage conditions: Store in its original packaging in a cool dry place, away from light.

<u>Technical measures:</u> Close the container after use. In case of transferring, reproduce the labelling.

Packaging materials: Preserve only in the container of origin.

Respect the general rules of incompatibility.

Storage areas and packaging

Close carefully any already opened recipient and store it vertically to

avoid any flow

conditions : Storage :

Store at 25°C max. in tightly sealed original container. Avoid

prolonged exposure to light, heat and air.

Protection against the fire and the

explosion:

Non flammable

# 7.3. Specific end use(s)

Wash the hands and any other zone exposed with soap and water before eating, drinking, to smoke and before leaving work.



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#### SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1. Control parameters

**Measures of technical order:** Avoid contact with eyes, skin and closes. Do not ingest. Do not inhal vapors. Use proper personal protective equipment.

**Monitoring procedures**: If the product contains ingredients presenting exposure limits, he can turn out necessary to make an examination followed by the persons, by the atmosphere in the workplace either bodies living to end the efficiency of the ventilation or the other control measures or estimate the need to use of the material of protection of respiratory tracts. It is important to put back you in the European standard EN 689 concerning the methods to estimate the exhibition by inhalation to the chemical agents and to the national general documents of politics relative to the methods to determine dangerous substances.

PNEC Fresh water: No data PNEC Fresh water sediment: No data PNEC Marine water: No data PNEC Marine sediment: No data PNEC Soil: No data VLEP short term mg/m3 (98/24/CE): No data VLEP (8h) mg/m3 (98/24/CE): No data DNEL - Inhalation: No data DNEL - Skin contact: No data

### 8.2. Exposure controls

# Appropriate technical controls:

No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure.

# Personal protection measures :

# Personal protection:

-Protection des mains : Protection non requise.-Protection des yeux : Protection non requise.

-Protection respiratoire : En cas de ventilation insuffisante, porter un appareil respiratoire approprié.

**Respiratory protection**: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates that is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Filter apparatus (dust masks or half masks)

Type of filters

Type AX (Brown) : Organic compounds boiling point < 65°C Type A (Brown) : Organic compounds boiling point > 65°C

Type B (Grey): Inorganic gasses and fumes. Type P (White): Particles, dusts and aerosols

**Hand protection**: Impermeable and chemical resistant gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary >8 hours before piercing: vinyle disposable.

**Remark**: Recommended impermeable goggles do not only depend of his matter. Other factors can have a signifiant effect on impermeability, like their thickness or specific use or temperature conditions. In all cases, matter certificates should be selected. Ask your supply if the goggles are appropriate to this use.



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Eyes protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Recommanded: Splash googles, safety glasses with side-shields.

Skin protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Body: Recommanded: lab coat (sarrau), general.

Type 3: Liquid impermeability Type 4: Aerosol impermeability

Type 6: Impermeability limited to liquid splashs

Foot: Recommanded: neoprene

Upper and sole resistant and impermeable (Hydrocarbure resistant).

#### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES 9.

# 9.1. Information on basic physical and chemical properties

Appearance: Liquid

Color: Clear yellow to yellow

Odour: Agreste, Earthy, Camphor, green

Density at 20°C: [0.941; 0.947] Densité à 20/4°C: [0.939; 0.945] Relative density @ 25°C: [0.938; 0.944] [1.451; 1.455] Refractive index @ 20°C: Indice de réfraction à 25°C: [1.449; 1.453]

Boiling point (°C): 188 Flash point (°C) (close cup): 74

Vapor pressure: 1.58 hPa @ 20°C

0.002000 mm/Hg @ 25.00 °C. (litt.)

Melting point (°C): <-100

Ignition temperature: Acid Value:

Explosive properties: Not explosive Partition coefficient n-octanol/water: log Pow 1.6 cis Isomer %: [48;58] trans Isomer %: [40;50]

9.2. Other information

Solubility in alcohol (°): Yes Water solubility: No

# 10. SECTION 10 - STABILITY AND REACTIVITY

# 10.1. Reactivity



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Avoid powerful oxidizing agents

### 10.2. Chemical stability

Stable under normal conditions.

Shelf life: 24 months, according to storage conditions

# 10.3. Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.

#### 10.4. Conditions to avoid

Avoid any potential source of heat.

#### 10.5. Incompatible materials

NO CONCERNED

### 10.6. Hazardous decomposition products

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications. **Dangerous decomposition products:** No dangerous decomposition products known.

# 11. SECTION 11 - TOXICOLOGICAL INFORMATION

# 11.1. Information on toxicological

Phototoxicity: No data
Genotoxicity in vivo: No data

Genotoxicity in vitro: Ames test - negative - Method: Mutagenicity Reverse Mutation Test on

Salmonella typhimurium

LD50 oral (rat) : **1 150 mg/kg** LD50 Dermal (rabbit) : **2 500 mg/kg** 

Respiratory or Skin sensitization: (HRIPT human) - Result: Non-sensitizing to 8% in petrolatum

Skin irritation : (Rabbit) OECD Guideline 404: Skin irritation

Eyes irritation : (Rabbit) OECD Guideline 405: Eye irritation

Serious eye damage/irritation : No data

# 12. SECTION 12 - ECOLOGICAL INFORMATION

# 12.1. Toxicity

Do not leave the product, even diluted or in great quantity, penetrate the ground water, water or the drains.

LC50 Ecotoxicity : >100 mg/l; 96h
EC50 Ecology : >117 mg/l; 48h

CE50 (Aquatic fauna) : No data



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CE50 (Aquatic flora) : No data

No observable adverse effect level No data

(NOAEL):

No observed effect level (NOEL): No data

12.2. Persistence and degradability

Biodegradability: Easily biodegradable 84%

12.3. Bioaccumulative potential

Bioaccumulation (LogPow): 1.6

12.4. Mobility in soil

PNEC sol : No data

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

vPvB : This substance is not considered as very persistent nor very bioaccumulative PBT : This substance is not considered as persistent, neither bioaccumalable nor toxin

#### 12.6. Other adverse effects

No data

# 13. SECTION 13 - DISPOSAL CONSIDERATIONS

## 13.1. Waste treatment methods

**Product**: Does not have to be evacuated with the refuse. Not let it penetrate in the sewers.

Not cleaned packing: Evacuation according to local reglementation.

# 14. SECTION 14 - TRANSPORT INFORMATION

#### 14.1. UN number

ADR : NR IMDG:NR IATA :NR

# 14.2. UN proper shipping name

ADR: Not regulated for transport IMDG:Not regulated for transport IATA:Not regulated for transport

# 14.3. Transport hazard class(es)

ADR: NO CONCERNED IMDG:NO CONCERNED IATA: NO CONCERNED

# 14.4. Packing group

ADR: NO CONCERNED IMDG:NO CONCERNED IATA: NO CONCERNED



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14.5. Environmental hazards

IMDG: NO CONCERNED

14.6. Special precautions for user

Avoid any direct contact with the product.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

(Except particular case)

IBC Liquid substances Metal (31A, 31B, 31N) Plastic (31H1, 31H2)

GRV Solid substances Metal (11A, 11B, 21A, 21N) Plastic (11H1, 11H2, 21H1, 21H2)

# 15. SECTION 15 - REGULATORY INFORMATION

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

WGK: **2 - ID 5843** 

Custom tariff: 2932 19 00 90

15.2. Chemical safety assessment

Exposure assessment : Not available

# 16. SECTION 16 - OTHER INFORMATIONS

# Full H sentenses text in point 3:

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

.....

Key literature references and sources for data

Sources for data: Information from supplier

Literature references : ECHA

Literature references EU: Reg. 1272/2008

Safety data sheet according to REG. 1272/2008/CE and its amendings

These indications are founded on the current state of our knowledge, but do not constitute a guarantee as for the properties of the product and do not give place to a contractual legal report.

Professional Professional Control of the Control of

Modified points: 2.1 2.2 2.3 5.2 7.1 9.1 10.5 11.1 12.2 12.3 16