



# Safety Data Sheet

Printed : 17/09/2020

Revised : V1-R-2-CLP from 17/09/2020

## CITRONELLYL FORMIATE

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

#### 1.1. Product identifier

Name of the substance/mixture : **CITRONELLYL FORMIATE**

N° CAS TSCA : **105-85-1**

N° CE : **203-338-9**

N° index REACH An VI : **/**

N° REACH (partially) : **Exempt UE**

IUPAC Name : **(1)-3,7-Dimethyloct-6-enyl formate**

Chemical / REACH name : **Citronellyl formate**

Molecular formula : **C<sub>10</sub> H<sub>20</sub> O<sub>2</sub>**

Molecular weight : **184.28**

#### 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](http://www.pcwfrance.com)

Email : [info@pcwfrance.com](mailto:info@pcwfrance.com)

Technical manager : [regulatory@pcwfrance.com](mailto: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**

# Safety Data Sheet

Printed : 17/09/2020

CITRONELLYL FORMIATE

Revised : V1-R-2-CLP from 17/09/2020

## 2. SECTION 2 - HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

GHS Classification :

(RegulationCLP)

Skin. Sens. 1      Sensitisation skin 1

H317 - May cause an allergic skin reaction.

### 2.2. Label elements

GHS Classification :

(RegulationCLP)



Warning mention : Warning

Skin. Sens. 1      Sensitisation skin 1

H317 - May cause an allergic skin reaction.

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P272 - Contaminated work clothing should not be allowed out of the workplace.

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

P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P363 - Wash contaminated clothing before reuse.

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

### 2.3. Other hazards

**Contains Citronellol**

PBT : **No data**

vPvB : **No data**

VOC Swiss - Annex 1 : **Not listed**

LVP-VOC / INORGANIC / EXEMPTED **100%**

VOC (CARB) :

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

## 3. SECTION 3 - COMPOSITION INFORMATION ON INGREDIENTS

### 3.1. Substances

# Safety Data Sheet

Printed : 17/09/2020

CITRONELLYL FORMIATE

Revised : V1-R-2-CLP from 17/09/2020

Material	C.A.S	EINECS	Classification	Percent %
Citronellol (Regist. : /)	106-22-9	203-375-0	Skin Irrit. 2, Skin. Sens. 1B - H315	[ 1-5 ]

## 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.

### 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.

# Safety Data Sheet

Printed : 17/09/2020

CITRONELLYL FORMIATE

Revised : V1-R-2-CLP from 17/09/2020

**Particular risks linked to exposure** : see section 2

**Hazardous combustion products :**

Release of poison gases : Monoxide de carbone (CO), Dioxyde de carbon (CO<sub>2</sub>), Oxyde d'azotes (NO<sub>x</sub>), Dioxyde de soufre (SO<sub>2</sub>), Cyanures (CN) ....

Auto-ignition temperature (°C) : **242**

## **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 or flame).

Avoid skin/eye contact. Do not inhale 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 papers, filters) are immediately soaked into water. The chemical waste are rapidly treated according to the local regulation

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.

# Safety Data Sheet

Printed : 17/09/2020

CITRONELLYL FORMIATE

Revised : V1-R-2-CLP from 17/09/2020

## 7. 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 on coming in contact with the ground, waterways, drains and vents.

Advice on general occupational hygiene:

Follow the general hygiene rules.

Precautions of use :

-

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

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

Technical measures: 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 :

**Store at 25°C max. in tightly sealed original container. Avoid prolonged exposure to light, heat and air.**

Storage areas and packaging conditions :

-

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.

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

### 8.1. Control parameters

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

**Monitoring procedures :** If the product contains ingredients presenting exposure limits, he can turn out necessary to

# Safety Data Sheet

Printed : 17/09/2020

CITRONELLYL FORMIATE

Revised : V1-R-2-CLP from 17/09/2020

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/m<sup>3</sup> (98/24/CE) : **No data**VLEP (8h) mg/m<sup>3</sup> (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 significant 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.

**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.  
Recommended : Splash goggles, 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 : Recommended : lab coat (sarrau), general.

Type 3 : Liquid impermeability

Type 4 : Aerosol impermeability

Type 6 : Impermeability limited to liquid splashes

# Safety Data Sheet

Printed : 17/09/2020

CITRONELLYL FORMIATE

Revised : V1-R-2-CLP from 17/09/2020

Foot : Recommended : neoprene

Upper and sole resistant and impermeable (Hydrocarbure resistant).

## 9. SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

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

Appearance :	<b>Liquid</b>
Color :	<b>Colorless</b>
Odour :	<b>Conform to the commercial description.</b>
Densité à 20/4°C :	<b>[0.893 ; 0.906]</b>
Refractive index @ 20°C :	<b>[1.442 ; 1.448]</b>
Acid Value :	-
Melting point (°C) :	-
Boiling point (°C) :	-
Flash point (°C) (close cup) :	<b>95</b>
Ignition temperature :	-
Explosive properties :	-
Purity (%) :	<b>[90.0 ; 100.0]</b>
Impurities >0.01% :	-
Vapor pressure :	<b>0.03 mmHg @ 25°C</b>
Partition coefficient n-octanol/water :	<b>LogPow 4</b>

### 9.2. Other information

Water solubility :	<b>No</b>
Solubility in alcohol (°) :	<b>Yes</b>

## 10. SECTION 10 - STABILITY AND REACTIVITY

### 10.1. Reactivity

Avoid powerful oxidizing agents

### 10.2. Chemical stability

Stable under normal conditions.

Shelf life : **6 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.

## Safety Data Sheet

Printed : 17/09/2020

CITRONELLYL FORMIATE

Revised : V1-R-2-CLP from 17/09/2020

### 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 :	<b>No data</b>
Genotoxicity in vivo :	<b>No data</b>
Genotoxicity in vitro :	<b>No data</b>
LD50 oral (rat) :	<b>&gt;5000 mg/kg</b>
LD50 Dermal (rabbit) :	<b>&gt;2000 mg/kg</b>
Respiratory or Skin sensitization :	<b>No data</b>
Skin irritation :	<b>No data</b>
Serious eye damage/irritation :	<b>No data</b>
Eyes irritation :	<b>No data</b>

## 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 :	<b>No data</b>
EC50 Ecology :	<b>No data</b>
CE50 (Aquatic fauna) :	<b>No data</b>
CE50 (Aquatic flora) :	<b>No data</b>
No observable adverse effect level (NOAEL) :	<b>No data</b>
No observed effect level (NOEL) :	<b>No data</b>

### 12.2. Persistence and degradability

Biodegradability :	<b>Rapidly degradable</b>
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### 12.3. Bioaccumulative potential

Bioaccumulation (LogPow) :	<b>4</b>
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### 12.4. Mobility in soil

PNEC sol	: <b>No data</b>
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# Safety Data Sheet

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CITRONELLYL FORMIATE

Revised : V1-R-2-CLP from 17/09/2020

## 12.5. Results of PBT and vPvB assessment

vPvB : No data  
PBT : No data

## 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

### 14.5. Environmental hazards

IMDG : NO CONCERNED

### 14.6. Special precautions for user

-

### 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

## Safety Data Sheet

Printed : 17/09/2020

CITRONELLYL FORMIATE

Revised : V1-R-2-CLP from 17/09/2020

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-ID3483**

Custom tariff : **2915 13 00 90**

#### **15.2. Chemical safety assessment**

Exposure assessment : -

### 16. SECTION 16 - OTHER INFORMATIONS

#### **Full H sentences text in point 3 :**

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

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#### **Key literature references and sources for data**

Sources for data : Information from supplier

Literature references : ECHA

Literature references EU : Reg. 1272/2008

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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.

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Modified points : 2.1 2.2 2.3 3.1 10.5 11.1 16