



Safety Data Sheet

Printed : 22/09/2020

Revised : V1-R-2-CLP from 22/09/2020

LACTONE OF CIS-JASMONE

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

1.1. Product identifier

Name of the substance/mixture : **LACTONE OF CIS-JASMONE**

N° CAS TSCA : **70851-61-5**

N° CE : **274-942-8**

N° index REACH An VI : **/**

N° REACH (partially) : **Exempt**

IUPAC Name : **(Z)-5-Hex-3-enyldihydro-5-methylfuran-2(3H)-one**

Chemical / REACH name : **(Z)-5-Hex-3-enyldihydro-5-methylfuran-2(3H)-one**

Molecular formula : **C11 H18 O2**

Molecular weight : **182.26**

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)

H000 - Not classified according to the Regulation 1272/2008/EC

2.2. Label elements

GHS Classification :

(RegulationCLP)

H000 - Not classified according to the Regulation 1272/2008/EC

2.3. Other hazards

PBT :	No data
vPvB :	No data
VOC Swiss - Annex 1 :	Not listed
LVP-VOC / INORGANIC / EXEMPTED VOC (CARB) :	100%
CMR (Reg. 1223/2009/EEC) :	See certificate

3. SECTION 3 - COMPOSITION INFORMATION ON INGREDIENTS

3.1. Substances

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

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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 ophthalmologist.

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.

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 (NO_x), Dioxyde de soufre (SO₂), Cyanures (CN)

Auto-ignition temperature (°C) : -

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.

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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 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.

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.

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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.

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 : **Keep under Nitrogen, in fraiche temperature (max 18°C). Avoid prolonged exposure to light, humidity and air.**

Storage areas and packaging conditions : **Close carefully any already opened recipient and store it vertically to avoid any flow**

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, it 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**

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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.

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 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 : Recommanded : lab coat (sarrau), general.

Type 3 : Liquid impermeability

Type 4 : Aerosol impermeability

Type 6 : Impermeability limited to liquid splashes

Foot : Recommanded : 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 :	Liquid
Color :	Colorless to pale yellow
Odour :	Fruity, jasmine
Relative density @ 25°C :	[0.963 ; 0.970]
Refractive index @ 20°C :	[1.463 ; 1.468]
Acid Value :	-

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Melting point (°C) :	-		
Boiling point (°C) :	293.75		
Flash point (°C) (close cup) :	136		
Ignition temperature :	-		
Explosive properties :	-		
Vapor pressure :	0.004000 mmHg @ 25.00 °C (litt)		
cis Isomer % :	[95.0 ; 99.9]		
trans Isomer % :	[0.1 ; 5.0]		
Impurities >0.01% :	-		
Partition coefficient n-octanol/water :	LogPow 2.81		

9.2. Other information

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

10. SECTION 10 - STABILITY AND REACTIVITY

10.1. Reactivity

Avoid powerful oxidizing agents

10.2. Chemical stability

Stable under normal conditions.

Shelf life : **36 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**

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Genotoxicity in vitro :		No data	
Genotoxicity in vivo :		No data	
LD50 oral (rat) :		> 5000 mg/kg	
LD50 Dermal (rabbit) :		> 5000 mg/kg	
Respiratory or Skin sensitization :		No data	
Skin irritation :		No data	
Eyes irritation :		No data	
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 :	No data
EC50 Ecology :	No data
CE50 (Aquatic fauna) :	No data
CE50 (Aquatic flora) :	No data
No observed effect level (NOEL) :	No data
No observable adverse effect level (NOAEL) :	No data

12.2. Persistence and degradability

Biodegradability :	No data
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12.3. Bioaccumulative potential

Bioaccumulation (LogPow) :	2.81
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12.4. Mobility in soil

PNEC sol	: No data
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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.

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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

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-ID6166**
Custom tariff : **2932 20 60 00**

15.2. Chemical safety assessment

Exposure assessment : -

16. SECTION 16 - OTHER INFORMATIONS



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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

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.

Modified points : 7.1 9.1 11.1