



Safety Data Sheet

Printed : 01/02/2022

Revised : MP V1-R-1-CLP from 01/02/2022

LIGEONAL - BOU/1

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

1.1. Product identifier

Name of the substance/mixture : **LIGEONAL - BOU/1**

N° CAS TSCA : **18127-01-0**

N° CE : **242-016-2**

N° index REACH An VI : **/**

N° REACH (partially) : **01-2119983533-30-xxxx**

IUPAC Name : **3-(4-tert-Butylphenyl)propionaldehyde**

Chemical / REACH name : **4-tert.-Butyldihydrocinnamaldehyde;
3-(4-tert-Butylphenyl)propionaldehyde**

Molecular formula : **C13 H18 O**

Molecular weight : **190.28**

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**

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

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Anti poison Centers in France

ORFILA : +33(1) 45 42 59 59

2. SECTION 2 - HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

GHS Classification :

(RegulationCLP)

Aquatic Chronic 3 Hazardous to the aquatic environment, long-term hazard 3
 Skin Irrit. 2 Skin corrosion / irritation 2
 Skin. Sens. 1 Sensitisation skin 1
 STOT RE 2 Specific target organ toxicity, repeated exposure 2

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

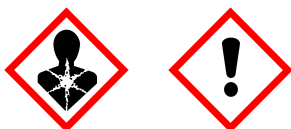
H373 - May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H412 - Harmful to aquatic life with long lasting effects.

2.2. Label elements

GHS Classification :

(RegulationCLP)



Warning mention : Warning

Aquatic Chronic 3 Hazardous to the aquatic environment, long-term hazard 3
 Skin Irrit. 2 Skin corrosion / irritation 2
 Skin. Sens. 1 Sensitisation skin 1
 STOT RE 2 Specific target organ toxicity, repeated exposure 2

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H373 - May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H412 - Harmful to aquatic life with long lasting effects.

P260 - Do not breathe 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.

P332+P313 - If skin irritation occurs: Get medical advice/attention.

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

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

2.3. Other hazards

Contains p-tert-Butyldihydrocinnamaldehyde (Rep. 2)

PBT : **This substance is not considered as persistent, neither bioaccumulable 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) :

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

3. SECTION 3 - COMPOSITION INFORMATION ON INGREDIENTS

3.1. Substances

Material	C.A.S	EINECS	Classification	Percent %
p-tert-Butyldihydrocinnamaldehyde (Rep. 2) (Regist. : N° REACH 01-2119983533-30-xxxx)	18127-01-0	242-016-2	Acute Tox. 3, Acute Tox. 4, Aquatic Chronic 2, Aquatic Chronic 3, Skin Irrit. 2, Skin. Sens. 1B, STOT RE 2 - H301, H302, H315, H317, H361, H373, H411, H412	> 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.

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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) : **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.

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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.

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

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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.

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 :

**Industrial : Keep under Nitrogen, in ambient temperature (10-30°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 Soil :

No data

PNEC Marine sediment :

No data

PNEC Marine water :

No data

PNEC Fresh water sediment :

No data

PNEC Fresh water :

No data

VLEP (8h) mg/m³ (98/24/CE) :

No data

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VLEP short term mg/m³ (98/24/CE) : **No data**

DNEL - Skin contact : **No data**

DNEL - Inhalation : **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 : **Floral, Fresh, Lily-of-the-valley, Green**

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Density at 20°C :	[0.958 ; 0.964]
Refractive index @ 20°C :	[1.508 ; 1.512]
Optical rotation (°) :	-
Acid Value :	[0 ; 3.00 mgKOH/g]
Melting point (°C) :	-11
Flash point (°C) (close cup) :	73
Boiling point (°C) :	207
Peak #1 (%) :	(main isomer) 91.0% min.
Peak #2 (%) :	[reagents intermediate synthesis phases ; 7.0% max.]
Impurities >0.01% :	0.013 % max. (lilial)
Vapor pressure :	0,002 hPa @ 20 °C 0.009000 mm/Hg @ 25.00 °C. (litt.)
Ignition temperature :	No data
Explosive properties :	No data
Partition coefficient n-octanol/water :	LogPow 3.2
Solvent Résiduel : Ethanol :	0.475%
Viscosity :	Viscosity, dynamic : 25,6 mPa.s - Viscosity, kinematic : 9,8 mm²/s at 20 °C Method: OECD Test Guideline 114
Refractive index at 25°C :	[1.506 ; 1.510]
Densité à 20/4°C :	[0.956 ; 0.962]
Relative density @ 25°C :	[0.955 ; 0.961]

9.2. Other information

Solubility in alcohol (°) :	Yes
Water solubility :	No 132 mg/l @ 20°C

10. SECTION 10 - STABILITY AND REACTIVITY

10.1. Reactivity

Avoid powerful oxidizing agents

10.2. Chemical stability

Stable under normal conditions.

Shelf life : **12 months, according to storage conditions**

10.3. Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.

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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

Genotoxicity in vivo :	No data
Genotoxicity in vitro :	Ames test Salmonella typhimurium negative Method: Mutagenicity Reverse Mutation Test on Salmonella typhimurium
Phototoxicity :	No data
LD50 oral (rat) :	2 660 mg/kg
LD50 Dermal (rabbit) :	> 5 000 mg/kg
Respiratory or Skin sensitization :	The mouse Result: The product is a skin sensitizer, subcategory 1B. Method: OECD Guideline 429
Skin irritation :	Species: Rabbit irritant Species: reconstructed human epidermis (RHE) irritant Method: Essay on the Human Skin Model EPISKIN
Eyes irritation :	Species: Rabbit No eye irritation Species: Bovine Cornea No eye irritation Method: OECD Guideline 437
Serious eye damage/irritation :	No data

12. SECTION 12 - ECOLOGICAL INFORMATION

12.1. Toxicity

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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 flora) :	4.3 mg / Exposure Time: 72 h Espèce: Pseudokirchneriella subcapitata (Micro-algae) static test Test substance: 2-Methyl-3- (4-isopropylphenyl) propanal Méthode: OECD Guideline 201
CE50 (Aquatic fauna) :	1.8 mg / l Exposure time: 48 h Species: Daphnia magna (Great daphnia) semi-static test Method: OECD Test Guideline 202
No observable adverse effect level (NOAEL) :	No data
No observed effect level (NOEL) :	No data

12.2. Persistence and degradability

Biodegradability :	Result: Inherently biodegradable. 77 % Method: OECD Test Guideline 302 C Result: Readily biodegradable. 65 % Method: OECD Test Guideline 301 F
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12.3. Bioaccumulative potential

Bioaccumulation (LogPow) :	3.2
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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	: This substance is not considered as very persistent nor very bioaccumulative
PBT	: This substance is not considered as persistent, neither bioaccumulable 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

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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 - ID 4411**

15.2. Chemical safety assessment

Exposure assessment : -

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16. SECTION 16 - OTHER INFORMATIONS

Full H sentences text in point 3 :

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H361	Suspected of damaging fertility or the unborn child <state specific effect if known> <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H373	May cause damage to organs (stomach, liver) through prolonged or repeated exposure (Oral)
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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 : 15.1