

SAFETY DATA SHEET

Printed : 03/01/2020

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1. PRODUCT AND COMPANY IDENTIFICATION

1.1. Product identifier

< = 6) 5 \$ * 5 \$ 1 & (2 , / / (0 2 1 * 5 \$ 6 6 * 8 \$ 7 (0 \$ / \$

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

Use : industrial. Reserved for professional use

1.3. Details of the supplier of the safety data sheet

* LOGHZHUN % 9
 A. Hofmanweg 41
 2031 BH Haarlem
 Nederland
 Tel. 31 - (0)23 - 532 22 55
 Fax 31 - (0)23 - 534 09 65
 E-mail: holland@gildewerk.com

2. HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture

GHS Classification :

(RegulationCLP)

Asp. Tox. 1	Aspiration hazard 1	H304 : May be fatal if swallowed and enters airways.
Eye Irrit. 2	Serious eye damage / eye irritation 2	H319 : Causes serious eye irritation.
Aquatic Chronic 2	Hazardous to the aquatic environment, long-term hazard	H411 : Toxic to aquatic life with long lasting effects.
Skin Irrit. 2	Skin corrosion / irritation 2	H315 : Causes skin irritation.
Skin Sens. 1B	Sensitisation, skin 1B	H317 : May cause an allergic skin reaction.

NATURE :

**Obtained by steam distillation of the herbaceous parts of
 CYMBOPOGON CITRATUS STAFF**

2.2. Label elements

GHS Classification :

(RegulationCLP)

Warning mention : Danger

Asp. Tox. 1 Aspiration hazard 1
 Eye Irrit. 2 Serious eye damage / eye irritation 2
 Aquatic Chronic 2 Hazardous to the aquatic environment, long-term hazard 2

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Skin Irrit. 2 Skin corrosion / irritation 2
Skin Sens. 1B Sensitisation, skin 1B

H304 - May be fatal if swallowed and enters airways.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H411 - Toxic to aquatic life with long lasting effects.

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 - Wash hands thoroughly after handling.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor/...



2.3. Other hazards

Contains Citral, Geraniol, Acetate Geranyle, beta-Caryophyllene, Nerol, Terpinolene, Cis iso citral\, Trans iso citral\, Linalool, Camphene, Alpha Pinene, Isoeugenol, Citronellol, CARVONE LAEVO, Limonene, Eugenol

3. COMPOSITION / INFORMATION ON INGREDIENT

3.1. Substances

Material	C.A.S	EINECS	Risk Symbol	%
Citral (No REACH : 01-2119462829-23-0000)	5392-40-5	226-394-6	Skin Irrit. 2, Skin Sens. 1 - H315, H317	> 50 %
Geraniol (No REACH : 01-2119552430-49)	106-24-1	203-377-1	Eye Dam. 1, Skin Irrit. 2, Skin Sens. 1B - H315, H317, H318	[5-10]
Acetate Geranyle	105-87-3	203-341-5	Aquatic Chronic 3, Skin Irrit. 2, Skin Sens. 1 - H315, H317, H412	[1-5]
beta-Caryophyllene	87-44-5	201-746-1	Asp. Tox. 1, Aquatic Chronic 4, Skin Sens. 1B - H304, H317, H413	[1-5]
Alpha Pinene (No REACH : enregistré)	80-56-8	201-291-9	Asp. Tox. 1, Flam. Liq. 3, Skin Irrit. 2, Skin Sens. 1B - H226, H304, H315, H317	[0-1]
Camphene	79-92-5	201-234-8	Aquatic Acute 1, Aquatic Chronic 1, Flam. Sol. 2 - H228, H400, H410	[0-1]
Cis iso citral\	72203-97-5		Eye Irrit. 2, Aquatic Chronic 3, Skin Sens. 1B - H317, H319, H412	[0-1]
Isoeugenol (No REACH : Exempté < 1t)	97-54-1	202-590-7	Acute Tox. 4, Acute Tox. 4, Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1A - H302+H312, H315, H317, H319	[0-1]
Linalool (No REACH : 01-2119474016-42)	78-70-6	201-134-4	Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1B - H315, H317, H319	[0-1]
Nerol (No REACH : 01-2119560621-44)	106-25-2	203-378-7	Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1B - H315, H317, H319	[0-1]
Terpinolene	586-62-9	209-578-0	Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1, Skin Sens. 1B - H304, H317, H400, H410	[0-1]

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Trans iso citral	72203-98-6		Eye Irrit. 2, Aquatic Chronic 3, Skin Sens. 1B - H317, H319, H412	[0-1]
Citronellol (No REACH : Enregistré 01-2119453995-23-0000)	106-22-9	203-375-0	Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1B - H315, H317, H319	[0-1]
CARVONE LAEVO	6485-40-1	229-352-5	Skin Sens. 1B - H317	[0-1]
Eugenol	97-53-0	202-589-1	Eye Irrit. 2, Skin Sens. 1B - H317, H319	[0-1]
Limonene	5989-27-5	227-813-5	Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1, Flam. Liq. 3, Skin Irrit. 2, Skin Sens. 1B - H226, H304, H315, H317, H400, H410	[0-1]

3.2. Mixtures

NO CONCERNED

4. FIRST AID MEASURES

4.1. Description of first aid measures

NO CONCERNED

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

NO CONCERNED

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

Contact with skin : wash immediately and abundantly with water and soap. Rinse then with clear water.

Contact with eyes : Abundant rinsing with water (15 minutes open eyelids) then washing with an ocular lotion standard Dacryoserum. In case of disorder, consult an ophthalmologist.

In the event of swallowed : Not make vomit, maintain the patient at rest. Resort to the medical care.

Soiled clothing : withdraw soiled clothing and re-use them only after decontamination.

5. FIRE FIGHTING

5.1. Extinguishing media

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2. Special hazards arising from the substance or mixture

Flammability : The product is not flammable. .

Prévention: Do not smoke. Do not use flame near.

5.3. Advice for firefighters

Never use a direct stream of water.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Use appropriate personal protective equipment during clean-up.

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6.2. Environmental precautions

Do not allow to enter sewers/ surface or ground water.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.4. Reference to other sections

NO CONCERNED

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Close packing after use. Reproduce labelling if transfer in another container.

7.2. Conditions for safe storage, including any incompatibilities

- Avoid any useless exposure. Keep away from food and drinks.
- Preserve only in the container of origin in a fresh place and broken down well. Keep the containers closed out of their use.
- Do not leave it near heat source, direct rays of the sun

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. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

NO CONCERNED

8.2. Exposure controls

General protective and hygienic measures: Avoid skin and eyes contact. Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work.

Personal Protection :

- Hand protection: Wear gloves.
- Eye protection: Wear glasses.
- Respiratory protection : Wear a mask.
- Ingestion : Do not use, drink and smoke during use.

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance :	Liquid
Odor :	Citrus, fresh
Color :	Pale yellow to yellow orange
Relative density (d ₂₀ /20) :	[0.8720 ; 0.8970]
Angular rotation (°) :	[-10 ; 0]
Refractive index at 20°C :	[1.4830 ; 1.4890]
Flash point (° C) :	+80

9.2. Other information

NO CONCERNED

10. STABILITY AND REACTIVITY

10.1. Reactivity

·**Dangerous reactions** : No dangerous reactions known.

Conservation : **2 ans**

10.2. Chemical stability

NO CONCERNED

10.3. Possibility of hazardous reactions

NO CONCERNED

10.4. Conditions to avoid

NO CONCERNED

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. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological

Toxicological Information : No data available.

Toxicological Informations Acute :

- Orale

Not Determined

- Inhalation

Not Determined

- Skin

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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.

12.2. Persistence and degradability

NO CONCERNED

12.3. Bioaccumulative potential

NO CONCERNED

12.4. Mobility in soil

NO CONCERNED

12.5. Results of PBT and vPvB assessment

NO CONCERNED

12.6. Other adverse effects

NO CONCERNED

13. DISPOSAL RECOMMENDATIONS

13.1. Waste treatment methods

Product : Recommendation : Does not have to be evacuated with the refuse . Not to let penetrate in the sewers.
Not cleaned packing : Recommendation : Evacuation in accordance with the regulations.

14. TRANSPORT INFORMATION

ADR:



IMDG:



IATA:



14.1. UN number

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ADR : 3082 (Tunnel code(E))
IMDG:3082
IATA :3082

Custom code : **33012941**

14.2. UN proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, n.o.s .(citral)
IMDG:ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, n.o.s .(citral)
IATA :ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, n.o.s .(citral)

14.3. Transport hazard class(es)

ADR : 9
IMDG:9
IATA :9

14.4. Packing group

ADR : III
IMDG:III
IATA :III

14.5. Environmental hazards

IMDG : Marine Pollutant

14.6. Special precautions for user

NOT REGULATED

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

NOT REGULATED

15. REGULATORY INFORMATION

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

Class of water contamination (Germany) : WGK

15.2. Chemical safety assessment

NO CONCERNED

16. OTHER INFORMATION

Full H sentences text in point 3 :

H226	Flammable liquid and vapour.
H228	Flammable solid.
H302	Harmful if swallowed.
H302+H312	Harmful if swallowed or in contact with skin
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

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- H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
H413 May cause long lasting harmful effects to aquatic life.

Material security data sheet according to 2001/58/CEE.

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 : 2.1 2.2 2.3 3.1 6.1 8.2 11.1 14 14.2 16