

# SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

Revision number: 1 Revision date: 10/24/2019

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name: (±)-Citronellal Product code: (2)-Citronellal

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

Identified uses: Reagents.

1.3 Details of the supplier of the safety data sheet

Supplier:

TCI EUROPE N.V. Boerenveldseweg 6 Haven 1063 B-2070 Zwijndrecht

Telephone: +32(0)3 735 07 00 E-mail: sales-eu@tcichemicals.com

**1.4 Emergency telephone number:** +32(0)70 245 245

#### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008

Skin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 2Skin sensitizationCategory 1Long-term aquatic hazardCategory 3

2.2 Label elements

Pictograms or hazard symbols



Signal word Warning

Hazard statements H315-Causes skin irritation.

H319-Causes serious eye irritation. H317-May cause an allergic skin reaction.

H412-Harmful to aquatic life with long lasting effects.

**Precautionary statements** P261-Avoid breathing mist, vapours or spray.

P273-Avoid release to the environment.

P264-Wash hands and face thoroughly after handling.

P280-Wear protective gloves, eye protection.

P302+P352+P333+P313+P362+P364-IF ON SKIN: Wash with plenty of soap and water. If skin

irritation or rash occurs: Take off contaminated clothing. And wash it before reuse.

P305+P351+P338+P337+P313-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice

or attention.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable vPvB: Not applicable

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# SECTION 3: Composition/information on ingredients

3.1 Substances

 Components:
 (±)-Citronellal

 Percent:
 >98.0%(GC)

 CAS RN:
 106-23-0

 EC-No:
 203-376-6

**Synonyms:** (±)-3,7-Dimethyl-6-octenal

Chemical Formula: C<sub>10</sub>H<sub>18</sub>O

# SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical

advice/attention if you feel unwell.

Skin contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If

skin irritation or rash occurs: Get medical advice/attention.

**Eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion: Get medical advice/attention if you feel unwell. Rinse mouth.

Protection of first-aiders: A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

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

No data available

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

No data available

## SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Dry chemical, foam, carbon dioxide.
Unsuitable extinguishing media: Water (It may scatter and spread fire.)

5.2 Special hazards arising from the

substance or mixture

Carbon monoxide, Carbon dioxide

5.3 Advice for firefighters

Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so. When extinguishing fire, be sure to wear personal protective equipment

#### SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off,

6.2 Environmental precautions

Prevent product from entering drains

6.3 Methods and materials for containment and cleaning up

Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations. Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and

explosion-proof equipment.

6.4 Reference to other sections

For disposal see section 13.

# SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapour or mist. Keep away from flames and hot surfaces. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated. Avoid contact with skin, eyes and clothing.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store under inert gas. Store away from incompatible materials such as oxidizing agents.

Air-sensitive

**7.3 Specific end use(s)**No further relevant information available.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters No data available

**8.2 Exposure controls** Install a closed system or local exhaust as possible so that workers should not be exposed directly.

Also install safety shower and eye bath.

Respiratory protection:

Hand protection:

Protective gloves.

Safety glasses: A face-shield if the situation requires

**Eye protection:**Safety glasses. A face-shield, if the situation requires. **Skin and body protection:**Protective clothing. Protective boots, if the situation requires.

### SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state (20°C): Liquid Form: Clear

Colorless - Almost colorless

Odour: No data available pH: No data available Melting point/freezing point: No data available

**Boiling point/range**: 205°C **Flash point**: 75°C

Evaporation rate(Butyl Acetate=1): No data available Flammability(solid, gas): No data available

Flammability or explosive limits:

Lower: No data available
Upper: No data available
Vapour pressure: 0.03kPa/25°C
Vapour density: No data available

Relative density: 0.85

Solubility(ies):

[Water] Insoluble (70.2mg/L, 25°C)

[Other solvents]

Soluble: Ethanol
Partition coefficient: 3.83
n-octanol/water:
Autoignition temperature: 202°C

Decomposition temperature:No data availableDynamic Viscosity:No data availableKinematic viscosity:1.82mm²/s (20°C)

9.2 Other safety information No data available

## SECTION 10: Stability and reactivity

10.1 Reactivity No data available

**10.2 Chemical stability** Stable under proper conditions.

10.3 Possibility of hazardous reactions No special reactivity has been reported.

**10.4 Conditions to avoid** Open flame

10.5 Incompatible materials Oxidizing agents

10.6 Hazardous decomposition products Carbon monoxide, Carbon dioxide

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## SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute Toxicity: skn-rbt LD50:>2500 mg/kg

ipr-mus LD50:>200 mg/kg orl-rat LD50:2420 mg/kg

Skin corrosion/irritation:No data availableSerious eye damage/irritation:No data availableRespiratory or skin sensitization:No data availableGerm cell mutagenicity:No data available

Carcinogenicity:

IARC = No data available
NTP = No data available
Reproductive toxicity: No data available
STOT-single exposure: No data available
STOT-repeated exposure: No data available
Aspiration hazard: No data available
RTECS Number: RH2140000

# SECTION 12: Ecological information

12.1 Toxicity

Fish: No data available

Crustacea: 48h EC50:8.68 mg/L (Daphnia magna)

Algae: No data available

12.2 Persistence and degradability No data available

12.3 Bioaccumulative potential 160

12.4 Mobility in soil

Log Pow: 3.83 Soil adsorption (Koc): 650 Henry's Law (PaM ³/mol): 26.54

12.5 Results of PBT and vPvB assessment

PBT: Not applicable vPvB: Not applicable

12.6 Other adverse effects No data available

# SECTION 13: Disposal considerations

## 13.1 Waste treatment methods

Recycle to process, if possible. Consult your local regional authorities. You may be able to burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

# SECTION 14: Transport information

14.1 UN number Not listed

14.2 UN proper shipping name

ADR/RID Not listed IMDG/IMO Not listed ICAO/IATA Not listed

14.3 Transport hazard class(es)

ADR/RID Does not correspond to the classification standard of the United Nations
IMDG/IMO Does not correspond to the classification standard of the United Nations
ICAO/IATA Does not correspond to the classification standard of the United Nations

14.4 Packaging group

ADR/RID - IMDG/IMO - ICAO/IATA -

14.5 Environmental hazards

Marine pollutant -

**14.6 Special precautions for user** No data available

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## SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Substance of Very High Concern (SVHC) according to the Not listed

REACH Regulations (EC) No.1907/2006

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

Prepared by: TCI EUROPE N.V. Issue date: 10/24/2019

This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.

**End of Safety Data Sheet** 

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