An ISO 9001: 2015 & GMP Certified Company 101, Aarkay Ruby Industrial Estate (1B), Opp Shree Narayan Industrial Estate, Chinchpada, Vasai East, Waliv, Maharashtra 401208. Tel: + 91 98200 41841

Email: info@ottokemi.com Web: www.ottokemi.com

Creation Date: 26-06-2025 Revision Date: 25-11-2

### MATERIAL SAFETY DATA SHEET (MSDS)

**SECTION 1. Product identifiers** 

Product name: Citronellol Product Code: C 2349 CAS No: 106-22-9

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

Use: Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet

Company identification OTTO CHEMIE PVT LTD

101, Aarkay Ruby Industrial Estate(1B), Opp Shree Narayan Industrial Estate,

Chinchpada, Vasai East, Waliv, Maharashtra 401208.

Email info@ottokemi.com

1.4. Emergency telephone number

Phone no.: + 91 22 2207 0099 (9:00am - 6:00 pm).

**SECTION 2: Hazards identification** 

2.1 Classification of the substance or mixture

Skin irritation, (Category 2) Eye irritation, (Category 2)

Skin sensitisation, (Sub-category

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram Signal word

Hazard Statements

H315

H317

H319

Precautionary Statements

P261 P264

P272

P280

P302 + P352

P305 + P351 + P338

Supplemental Hazard

Statements

Reduced Labelling (<= 125 ml)

Pictogram

Signal word

**Hazard Statements** 

**Precautionary Statements** 

P261

P272

P302 + P352

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H317: May cause an allergic skin reaction

Warning

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

Avoid breathing mist or vapours.

Wash skin thoroughly after handling.

Contaminated work clothing should not be allowed out of the

workplace.

Wear protective gloves/ eye protection/ face protection.

IF ON SKIN: Wash with plenty of water.

IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue

rinsing.

none

Warning

May cause an allergic skin reaction.

Avoid breathing mist or vapours.

Contaminated work clothing should not be allowed out of the

workplace.

IF ON SKIN: Wash with plenty of water.

#### DISCI AIMER

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Supplemental Hazard

none

Statements

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Toxicological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### **SECTION 3: Composition/information on ingredients**

3.1 Substances

Synonyms :  $(\pm)$ - $\beta$ -Citronellol

3,7-Dimethyl-6-octen-1-ol

beta-Citronellol : C10H20O

Formula : C10H200

Molecular weight : 156,27 g/mol
CAS-No. : 106-22-9
EC-No. : 203-375-0

Component	Classification	Concentration
citronellol		
CAS-No. 106-22-9	Skin Irrit. 2; Eye Irrit. 2; Skin Sens. 1B;	<= 100 %
EC-No.203-375-0	H3 <mark>15</mark> , H319, H317	

For the full text of the H-Statements mentioned in this Section, see Section 16.

### **SECTION 4: First aid measures**

4.1 Description of first aid measures

General advice

Show this safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air. In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with

water/ shower. Consult a physician.

In case of eye contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact

lenses.

If swallowed

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section

2.2) and/or in section 11

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

Carbon dioxide (CO2) Foam Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Carbon oxides

Combustible.

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Vapours are heavier than air and may spread along floors.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by

keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

### **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures Advice for non-emergency personnel: Do not breathe vapours, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

6.4 Reference to other sections

For disposal see section 13.

#### **SECTION 7: Handling and storage**

7.1 Precautions for safe handling

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Tightly closed.

Storage class

Storage class (TRGS 510): 10: Combustible liquids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## **SECTION 8: Exposure controls/personal protection**

8.1 Control parameters

Ingredients with workplace control parameters

8.2 Exposure controls

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0,4 mm

Break through time: 480 min

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Splash contact

Material: Nitrile rubber

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Minimum layer thickness: 0,11 mm Break through time: 30 min

Material tested: KCL 741 Dermatril® L

Body Protection protective clothing Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a fullface respirator with multi-purpose combination (US)

or type ABEK (EN 14387)

respirator cartridges as a backup to engineering controls. If the respirator is the sole

means of protection, use a full-face supplied air respirator. Use respirators and

components tested and approved under appropriate government standards such as

NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

#### **SECTION 9: Physical and chemical properties**

9.1 Information on basic physical and chemical properties

a) Physical state liquid b) Color colourless

c) Odor No data available d) Melting Melting point: < -20 °C

point/freezing point
e) Initial boiling point
222 °C - lit.

and boiling range

f) Flammability (solid, No data available gas)
g) Upper/lower No data available

g) Upper/lower flammability or explosive limits

h) Flash point 107 °C - closed cup - DIN 51758

i) Autoignition
No data available temperature

j) Decomposition No data available temperature

k) pH neutral

Viscosity, kinematic: No data available
Viscosity, dynamic: 5,33 mPa.s at 40 °C - OECD Test Guideline

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m) Water solubility 0,307 g/l at 25 °C

n) Partition coefficient: log Pow: 3,41 at 25 °C - Bioaccumulation is not expected.

n-octanol/water
o) Vapor pressure
p) Density
Relative density

- 1 hPa at 20 °C
0,857 g/cm3 at 25 °C - lit.
No data available

Relative density No data available q) Relative vapour No data available

r) Particle No data available characteristics

s) Explosive properties Not classified as explosive.

t) Oxidizing properties none

9.2 Other safety information

No data available

# **SECTION 10: Stability and reactivity**

10.1 Reactivity

density

Forms explosive mixtures with air on intense heating.

A range from approx. 15 Kelvin below the flash point is to be rated as critical.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

10.3 Possibility of hazardous reactions

Violent reactions possible with:

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Strong oxidizing agents

Bases

Acids

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

In the event of fire: see section 5

# **SECTION 11: Toxicological information**

11.1 Information on toxicological effects

Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Toxicity to Animals:

Oral LD50 Rat: 1500 mg/kg; Dermal LD50 Rabbit: 2000mg/kg

Inhalation LC50 Rat: > 50mg/L.

Chronic Effects on Humans: CARCINOGENIC EFFECTS: Classified None. by NTP, None. by OSHA, None. by NIOSH.

Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of inhalation (lung irritant).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available. Special Remarks on other Toxic Effects on Humans: Not available.

### **SECTION 12: Ecological information**

12.1 Toxicity

Toxicity to fish static test LC50 - Leuciscus idus (Golden orfe) - 14,66 mg/l - 96 h

Remarks: (ECHA) Toxicity to daphnia and other aquatic

invertebrates

static test EC50 - Daphnia magna (Water flea) - 17,48 mg/l - 48 h

Remarks: (ECHA)

Toxicity to algae static test ErC50 - Scenedesmus quadricauda (Green algae) - 2,4

mg/l - 72 h

Remarks: (ECHA)

Toxicity to bacteria Respiration inhibition EC50 - Pseudomonas putida - > 10.000 mg/l -

0,5 h

Remarks: (ECHA)

12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 28 d Result: 80 - 90 % - Readily biodegradable.

(OECD Test Guideline 301F)

Chemical Oxygen Demand (COD) 2.050 mg/g

Remarks: (External MSDS)

Theoretical oxygen

demand 2.961 mg/g

Remarks: (External MSDS)

12.3 Bioaccumulative potential

No data available 12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at

levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties

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according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

IATA: -

IATA: -

IATA: no

12.7 Other adverse effects
Additional ecological
information
Discharge into the environment must be avoided.

#### **SECTION 13: Disposal considerations**

13.1 Waste treatment methods
No data available

#### **SECTION 14: Transport information**

14.1 UN number

ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: - IMDG: -

14.4 Packaging group
ADR/RID: - IMDG: -

14.5 Environmental hazards

ADR/RID: no

14.6 Special precautions for user

No data available Further information

Not classified as dangerous in the meaning of transport regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

### **SECTION 15: Regulatory information**

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

## **SECTION 16: Other Information**

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

IMDG Marine pollutant: no

Creation Date: 26-06-2025 Revision Date: 25-11-2030