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Citronellol CAS No 106-22-9

MATERIAL SAFETY DATA SHEET SDS/MSDS

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

1.1	Product identifiers Product name	:	Citronellol
	CAS-No.	:	106-22-9
1.2	Relevant identified uses of	f th	e substance or mixture and uses advised against
	Identified uses	:	Laboratory chemicals, Industrial & for professional use only.
1.3	.3 Details of the supplier of the safety data sheet		
	Company	:	Central Drug House (P) Ltd 7/28 Vardaan House Ansari Road Daryaganj New Delhi-110002 INDIA
	Telephone Email	:	+91 11 49404040 care@cdhfinechemical.com

1.4 Emergency telephone number Emergency Phone # : +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 Skin irritation (Category 2), H315 Eye irritation (Category 2), H319 Skin sensitisation (Category 1), H317

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

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 Pictogram



Signal word

Hazard statement(s) H315 H317

Causes skin irritation. May cause an allergic skin reaction.

H319	Causes serious eye irritation.
Precautionary statement(s) P280 P305 + P351 + P338	Wear protective gloves. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Supplemental Hazard	none

Supplemental Hazard 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.

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms	:	(±)Citronellol 3,7-Dimethyl-6-octen-1-ol beta-Citronellol
Formula	:	C ₁₀ H ₂₀ O
Molecular weight	:	156.27 g/mol
CAS-No.	:	106-22-9
EC-No.	:	203-375-0

Hazardous ingredients according to Regulation (EC) No 1272/2008 Component Classification

Citronellol CAS-No. 106-22-9 Skin Irrit. 2: Eve Irrit. 2: Skin <= 10	
$CAS No$ 106.02.0 Skin krit 2: Evo krit 2: Skin \sim 10	
CAS-No. 106-22-9 Skin Irrit. 2; Eye Irrit. 2; Skin <= 10)%
EC-No. 203-375-0 Sens. 1; H315, 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

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. 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

Concentration

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

- 5.2 Special hazards arising from the substance or mixture Carbon oxides
- **5.3** Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.
- 5.4 Further information No data available

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. For personal protection see section 8.
- 6.2 Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
- 6.3 Methods and materials for containment and cleaning up Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections For disposal see section 13.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. For precautions see section 2.2.
- 7.2 Conditions for safe storage, including any incompatibilities Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): Combustible liquids not in Storage Class 3
- 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
- 8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

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

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use (US) or type ABEK (EN 14387) respirator cartridges as a backup to enginee 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

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

°C

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: clear, liquid Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pН	No data available
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	222 °C - lit.
g)	Flash point	99 °C - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
I)	Vapour density	5.4 - (Air = 1.0)
m)	Relative density	0.850-0.860 g/cm3 at 25
n)	Water solubility	No data available
o)	Partition coefficient: n- octanol/water	log Pow: 3.41
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available
Oth	er safety information	
	Relative vapour density	5.4 - (Air = 1.0)

SECTION 10: Stability and reactivity

10.1 Reactivity

9.2

No data available

- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** No data available
- 10.4 Conditions to avoid No data available
- **10.5 Incompatible materials** Strong oxidizing agents
- 10.6 Hazardous decomposition products
 Hazardous decomposition products formed under fire conditions. Carbon oxides
 Other decomposition products No data available
 In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - 3,450 mg/kg(Citronellol) LD50 Dermal - Rabbit - 2,650 mg/kg(Citronellol)

Skin corrosion/irritation

Skin - Human(Citronellol) Result: Skin irritation - 48 h

Serious eye damage/eye irritation No data available(Citronellol)

Respiratory or skin sensitisation

- Mouse(Citronellol) May cause sensitisation by skin contact.

Germ cell mutagenicity

No data available(Citronellol)

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity No data available(Citronellol)

Specific target organ toxicity - single exposure No data available(Citronellol)

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard No data available(Citronellol)

Additional Information RTECS: Not available

Cough, Shortness of breath, Headache, Nausea, Vomiting(Citronellol)

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	LC50 - Leuciscus idus (Golden orfe) - 10.0 - 22.0 mg/l - 96 h(Citronellol)
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia (water flea) - 17.0 mg/l - 48 h(Citronellol)

Toxicity to algae EC50 - Algae - 2.4 mg/l - 72 h(Citronellol)

12.2 Persistence and degradability

Biodegradability Result: - Readily biodegradable

Chemical Oxygen
Demand (COD)2,050 mg/g(Citronellol)Theoretical oxygen
demand2,961 mg/g(Citronellol)

Ratio BOD/ThBOD > 60 %(Citronellol)

- 12.3 Bioaccumulative potential No data available
- 12.4 Mobility in soil No data available(Citronellol)

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 Other adverse effects

Toxic to aquatic life.

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

14.1	UN number ADR/RID: 3		IMDG: 3082	IATA: 3082
14.2		ENVIRONMENTALLY	HAZARDOUS SUBSTANCE, LIQUI HAZARDOUS SUBSTANCE, LIQUII dous substance, liquid, n.o.s. (Citrone	D, N.O.S. (Citronellol)
14.3	Transport h ADR/RID: 9	nazard class(es) 9	IMDG: 9	IATA: 9
14.4	Packaging ADR/RID: I		IMDG: III	IATA: III
14.5	Environme ADR/RID: y	ntal hazards /es	IMDG Marine pollutant: no	IATA: yes
14.6	Special pre	cautions for user		

Further information

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

SECTION 15: Regulatory information

- **15.1** Safety, health and environmental regulations/legislation specific for the substance or mixture This safety datasheet 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

Full text of H-Statements referred to under sections 2 and 3.

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.