# 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Wear protective gloves.

Avoid contact with skin and eyes.

3,7-Dimethyl-2,6-octadienal

**Irritant** 

Product name Citral

# Classification of the substance or mixture

According to Regulation (EC) No1272/2008

Skin irritation (Category 2) Skin sensitization (Category 1)

2. HAZARDS IDENTIFICATION

According to European Directive 67/548/EEC as amended. May cause sensitization by skin contact. Irritating to skin.

Label elements

Pictogram

Signal word

P280

Warning

Hazard statement(s)

H315

Causes skin irritation. H317 May cause an allergic skin reaction.

Precautionary statement(s)

Hazard symbol(s)

Xi R-phrase(s)

S-phrase(s)

S24/25

R38 Irritating to skin. May cause sensitization by skin contact.

R43

S37 Wear suitable gloves.

Other hazards - none

3. COMPOSITION/INFORMATION ON INGREDIENTS Geranial and neral mixture

Synonyms

Formula C10H16O 152,23 g/mol Molecular Weight

Citral 226-394-6 5392-40-5

EC-No.

Skin Irrit. 2; Skin Sens. 1; H315, H317 Xi, R38 - R43

Classification

Concentration

CAS-No.

For the full text of the H-Statements mentioned in this Section, see Section 16. 4. FIRST AID MEASURES

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

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

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

In case of eye contact

5. FIRE-FIGHTING MEASURES

**Personal precautions** 

containers for disposal.

7. HANDLING AND STORAGE

Suitable extinguishing media

General advice

In case of skin 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.

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary. 6. ACCIDENTAL RELEASE MEASURES

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed

### Do not let product enter drains. Methods and materials for containment and cleaning up

**Environmental precautions** 

Precautions for safe handling Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

**Conditions for safe storage** Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Normal measures for preventive fire protection.

## standards such as NIOSH (US) or CEN (EU). Hand protection

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Personal protective equipment

**Respiratory protection** 

Handle with gloves.

work place.

Form

Colour

Safety data

рΗ

Melting point

Lower explosion limit

Upper explosion limit

Vapour pressure

Hygiene measures

the end of workday.

Eye protection Face shield and safety glasses Skin and body protection Choose body protection according to the amount and concentration of the dangerous substance at the

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

Where risk assessment shows air-purifying respirators are appropriate use a full-face 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

9. PHYSICAL AND CHEMICAL PROPERTIES **Appearance** 

clear, liquid

light yellow

no data available

no data available

4,3 %(V)

9,9 %(V)

< 1 hPa at 50 °C

Hazardous decomposition products formed under fire conditions. - Carbon oxides

#### Boiling point 229 °C - lit. Flash point 95 °C - closed cup no data available Ignition temperature

0,888 g/cm3 at 25 °C Density no data available Water solubility Relative vapour 5,26 density - (Air = 1.0)10. STABILITY AND REACTIVITY Chemical stability Stable under recommended storage conditions. **Conditions to avoid** no data available

Strong oxidizing agents, Strong acids, Strong bases

Hazardous decomposition products

11. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 4.960 mg/kg Remarks: Behavioral:Somnolence (general depressed activity). LD50 Dermal - rabbit - 2.250 mg/kg

Skin corrosion/irritation

Germ cell mutagenicity

Reproductive toxicity

no data available

Carcinogenicity

no data available

Aspiration hazard no data available

Inhalation

Ingestion

RTECS: RG5075000

**Toxicity** 

no data available

no data available

no data available

**Product** 

ADR/RID

**IATA** 

12. ECOLOGICAL INFORMATION

Persistence and degradability

**Bioaccumulative potential** 

13. DISPOSAL CONSIDERATIONS

Contaminated packaging Dispose of as unused product.

14. TRANSPORT INFORMATION

Skin Eyes

Potential health effects

Signs and Symptoms of Exposure

Skin - rabbit - Skin irritation - 24 h

Serious eye damage/eye irritation

Materials to avoid

**Acute toxicity** 

no data available Respiratory or skin sensitization May cause allergic skin reaction.

no data available Overexposure may cause reproductive disorder(s) based on tests with laboratory animals. Specific target organ toxicity - single exposure no data available Specific target organ toxicity - repeated exposure

Cough, Shortness of breath, Headache, Nausea, Vomiting, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. **Additional Information** 

May cause eye irritation.

May be harmful if swallowed.

May be harmful if inhaled. May cause respiratory tract irritation.

May be harmful if absorbed through skin. Causes skin irritation.

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.

Mobility in soil no data available PBT and vPvB assessment no data available Other adverse effects no data available

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste

in a chemical incinerator equipped with an afterburner and scrubber.

disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn

Not dangerous goods **IMDG** Not dangerous goods

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. 16. OTHER INFORMATION

Xi

R38

R43

Not dangerous goods

Text of H-code(s) and R-phrase(s) mentioned in Section 3 H315 Causes skin irritation. H317 May cause an allergic skin reaction.

Skin irritation Skin Irrit. Skin Sens. Skin sensitization

www.lookchem.com

**Further information** 

**Irritant** Irritating to skin. May cause sensitization by skin contact.

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