8,10-Dodecadien-1-ol, (8E,10E)- (cas 33956-49-9) MSDS

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

1.1 Product identifiers

Product name: Codlemone

Product Number: 32716
Brand: Fluka
CAS-No.: 33956-49-9

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

Identified uses: Laboratory chemicals, Manufacture of substances

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]
- Skin irritation (Category 2)
- Respiratory sensitization (Category 1)
- Acute aquatic toxicity (Category 1)

Classification according to EU Directives 67/548/EEC or 1999/45/EC
- Irritating to skin. May cause sensitization by skin contact.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 [CLP]

Pictogram

Signal word: Danger

Hazard statement(s)
- H315: Causes skin irritation.
- H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H400: Very toxic to aquatic life.

Precautionary statement(s)
- P261: Avoid breathing vapours.
- P273: Avoid release to the environment.
- P342 + P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Supplemental Hazard Statements: None


Hazard symbol(s)

R-phrase(s)
- R38: Irritating to skin.
- R43: May cause sensitization by skin contact.

S-phrase(s)
- S36/37: Wear suitable protective clothing and gloves.

2.3 Other hazards - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms: trans-8, trans-10-Dodecadienol

Formula: C12H22O
Molecular Weight: 182,3 g/mol

Component

<table>
<thead>
<tr>
<th>Codlemone</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS-No.</td>
<td>33956-49-9</td>
</tr>
<tr>
<td>EC-No.</td>
<td>251-761-2</td>
</tr>
<tr>
<td>Concentration</td>
<td></td>
</tr>
</tbody>
</table>
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
   Flush eyes with water as a precaution.
   If swallowed
   Do NOT induce vomiting. 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
4.3 Indication of any immediate medical attention and special treatment needed
   no data available

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 fire fighting if necessary.

5.4 Further information
   Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES
6.1 Personal precautions, protective equipment and emergency procedures
   Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.
   Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
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
   Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.
6.4 Reference to other sections
   For disposal see section 13.

7. HANDLING AND STORAGE
7.1 Precautions for safe handling
   Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
   Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.
7.2 Conditions for safe storage, including any incompatibilities
   Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
   Store in the dark.
7.3 Specific end uses
   no data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION
8.1 Control parameters
   Components with workplace 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.

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

**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 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 standards such as NIOSH (US) or CEN (EU).

9. **PHYSICAL AND CHEMICAL PROPERTIES**

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Appearance</td>
<td>Form: liquid</td>
</tr>
<tr>
<td>b) Colour</td>
<td>light yellow</td>
</tr>
<tr>
<td>c) Odour</td>
<td>characteristic</td>
</tr>
<tr>
<td>d) Odour Threshold</td>
<td>no data available</td>
</tr>
<tr>
<td>e) pH</td>
<td>no data available</td>
</tr>
<tr>
<td>f) Melting point/freezing point</td>
<td>30 - 32 °C</td>
</tr>
<tr>
<td>g) Initial boiling point and boiling range</td>
<td>110 - 120 °C at 2,7 hPa</td>
</tr>
<tr>
<td>h) Flash point</td>
<td>91 °C - closed cup</td>
</tr>
<tr>
<td>i) Evaporation rate</td>
<td>no data available</td>
</tr>
<tr>
<td>j) Flammability (solid, gas)</td>
<td>no data available</td>
</tr>
<tr>
<td>k) Upper/lower flammability or explosive limits</td>
<td>no data available</td>
</tr>
<tr>
<td>l) Vapour pressure</td>
<td>no data available</td>
</tr>
<tr>
<td>m) Vapour density</td>
<td>no data available</td>
</tr>
<tr>
<td>n) Relative density</td>
<td>0,85 - 0,87 g/cm3 at 25 °C</td>
</tr>
<tr>
<td>o) Water solubility</td>
<td>25,48 g/l</td>
</tr>
<tr>
<td>p) Partition coefficient: n-octanol/water</td>
<td>no data available</td>
</tr>
<tr>
<td>q) Autoignition temperature</td>
<td>no data available</td>
</tr>
<tr>
<td>r) Decomposition temperature</td>
<td>no data available</td>
</tr>
<tr>
<td>s) Viscosity</td>
<td>no data available</td>
</tr>
<tr>
<td>t) Explosive properties</td>
<td>no data available</td>
</tr>
<tr>
<td>u) Oxidizing properties</td>
<td>no data available</td>
</tr>
</tbody>
</table>

9.2 Other safety information

no data available

10. **STABILITY AND REACTIVITY**

10.1 Reactivity

no data available

10.2 Chemical stability

no data available
10.3 Possibility of hazardous reactions
   no data available

10.4 Conditions to avoid
   Keep away from direct sunlight.
   Heat, flames and sparks.

10.5 Incompatible materials
   Strong oxidizing agents

10.6 Hazardous decomposition products
   Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION
11.1 Information on toxicological effects
   Acute toxicity
   LD50 Oral - rat - > 4.000 mg/kg
   LD50 Oral - mouse - > 4.000 mg/kg
   LC50 Inhalation - rat - 5 mg/l
   Skin corrosion/irritation
   Skin - rabbit - Skin irritation
   Serious eye damage/eye irritation
   no data available
   Respiratory or skin sensitization
   guinea pig - Skin sensitization
   May cause sensitization by inhalation.
   Germ cell mutagenicity
   no data available
   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
   Specific target organ toxicity - single exposure
   no data available
   Specific target organ toxicity - repeated exposure
   no data available
   Aspiration hazard
   no data available
   Potential health effects
   Inhalation May be harmful if inhaled. Causes respiratory tract irritation.
   Ingestion May be harmful if swallowed.
   Skin May be harmful if absorbed through skin. Causes skin irritation.
   Additional Information
   RTECS: Not available

12. ECOLOGICAL INFORMATION
12.1 Toxicity
   Toxicity to fish
   LC50 - Oncorhynchus mykiss (rainbow trout) - > 120 mg/l - 96 h
   Toxicity to daphnia and other aquatic invertebrates
   EC50 - Daphnia - 0,3 mg/l - 48 h
   Toxicity to algae
   EbC50 - Algae - 0,074 mg/l - 72 h
   ErC50 - Algae - 0,221 mg/l - 72 h

12.2 Persistence and degradability
   Expected to be biodegradable

12.3 Bioaccumulative potential
   no data available

12.4 Mobility in soil
   no data available

12.5 Results of PBT and vPvB assessment
12.6 Other adverse effects
Very toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Product
This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

14.1 UN number
ADR/RID: 3082
IMDG: 3082
IATA: 3082

14.2 UN proper shipping name
ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Codlemone)
IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Codlemone)
IATA: Environmentally hazardous substance, liquid, n.o.s. (Codlemone)

14.3 Transport hazard class(es)
ADR/RID: 9
IMDG: 9
IATA: 9

14.4 Packaging group
ADR/RID: III
IMDG: III
IATA: III

14.5 Environmental hazards
ADR/RID: yes
IMDG Marine pollutant: yes
IATA: yes

14.6 Special precautions 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.

15. REGULATORY INFORMATION

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

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
no data available

15.2 Chemical Safety Assessment
no data available

16. OTHER INFORMATION

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 this document is based on the resent state of our knowledge and is applicable to the product with regard to appropriate safety precautions. The above information is subject to change due to formulation changes or technical or market driven issues. See reverse side of invoice or packing slip for additional terms and conditions of sale.