

**Material Safety Data Sheet**  
According to 1907/2006 EC

Printing date 12.12.2003

Reviewed on 30.09.2009

**Trade name: Isomate C LR**

### 1. Identification of substance

**Product details**

**Trade name: Isomate C LR**

**Application of the substance / the preparation:** Pheromone for mating disruption.

**Manufacturer/Supplier:**

**CBC (EUROPE) Ltd** Phone: +39-0362-365079

Via E. Majorana, 2 Fax: +39-0362-41273

20054 Nova Milanese (MI), Italy

**Manufacturer:** Shin-Etsu Chemical co. Ltd

6-1 Ohtemachi 2-chome - Chiyoda-ku, Tokyo; 100-0004, Japan

**Informing department:** Sales.

**Emergency information:** As above or next toxicological information centre.

### 2. Hazards identification

**Hazard designation:**

Xi, Irritant.

**Information pertaining to particular dangers for man and environment:**

R 36/38 Irritating to eyes and skin.

**Classification system:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

### 3. Composition / Data on components

**Chemical characterization**

**Description:** Mixture of the substances listed below with harmless products.

**Dangerous components:**

<b>(E,E)-8,10-Dodecadien-1-ol</b>	Xi;	R 36/38	36-38 %
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CAS:	33956-49-9
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EINECS:	260-506-4
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<b>(Z)-11-Tetradecenyl acetate</b>	Xi;	R 38	37-39 %
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CAS:	20711-10-8
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EINECS:	243-982-8
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<b>(Z)-9-Tetradecenyl acetate</b>	Xi;	R 38	6-8 %
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CAS :	16725-53-4
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EINECS :	240-780-1
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<b>Dodecan-1-ol</b>	Xi;	R 38	5-6 %
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CAS :	112-53-8
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EINECS:	203-982-0
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<b>Tetradecan-1-ol</b>	Xi;	R 38	1-1,3 %
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CAS:	112-72-1
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EINECS:	204-000-3
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**Additional information:** For the wording of the listed risk phrases refer to section 16.

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#### **4. First aid measures**

**General information:** Remove contaminated clothing.

**After inhalation:** Supply fresh air; consult doctor in case of symptoms.

**After skin contact:** Instantly wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

**After eye contact:** Rinse opened eye for several minutes under running water. Then consult doctor.

**After swallowing:** Rinse out mouth and then drink plenty of water. Consult immediately a doctor.

#### **5. Fire fighting measures**

**Suitable extinguishing agents:** CO<sub>2</sub>, extinguishing powder or water spray/fog. Fight larger fires with water spray/fog or alcohol-resistant foam.

**For safety reasons unsuitable extinguishing agents:** Water with a full water jet.

**Special hazards caused by the material, its products of combustion or flue gases:** Carbon monoxide and carbon dioxide.

**Protective equipment:** Put on breathing apparatus.

**Additional information:** Collect contaminated fire fighting water separately. It must not enter drains.

#### **6. Accidental release measures**

**Person-related safety precautions:** Avoid skin and eye contact.

**Measures for environmental protection:** Do not allow to enter drainage system, surface or ground water.

**Measures for cleaning/collecting:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste according to item 13. Ensure adequate ventilation.

#### **7. Handling and storage**

##### **Handling**

**Information for safe handling:** Ensure good ventilation/exhaustion at the workplace. Avoid skin and eye contact.

**Information about protection against explosions and fires:** Keep ignition sources away. Do not smoke.

##### **Storage**

**Requirements to be met by storerooms and containers:** Observe all local and national regulations for storage of water polluting products.

**Information about storage in one common storage facility:** Do not store together with oxidizing and acidic materials.

**Further information about storage conditions:** Store in cool, dry conditions in well sealed containers. Protect from heat and direct sunlight.

#### **8. Exposure controls and personal protection**

##### **IMPORTANT NOTICE**

This product contains hazardous chemicals. As delivered, this product is not hazardous and therefore not classified/labelled. This MSDS applies only in case that container breaks and the chemicals are set free.

All information given hereinafter refer to the contained chemicals, the product itself is safe for use.

##### **Components with critical values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**Additional information:** The lists that were valid during the compilation were used as basis.

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### Personal protective equipment

#### General protective and hygienic measures:

Keep away from foodstuffs, beverages and food. Instantly remove any contaminated garments. Avoid contact with the eyes and skin. Wash hands during breaks and at the end of the work.

**Breathing equipment:** Not necessary if room is well-ventilated.

**Protection of hands:** Protective gloves. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

**Material of gloves:** Nitrile or neoprene.

**Eye protection:** Safety glasses.

## 9. Physical and chemical properties

### General information

**Form:** Liquid.

**Color:** Colorless to yellowish.

**Smell:** Characteristic.

### Change in condition

**Melting point/Melting range:** 12 - 14°C

**Boiling point/Boiling range:** 110 - 134°C (2,7 hPa)

**Flash point:** 91°C (PMCC)

**Self-inflammability:** Product is not selfigniting.

**Danger of explosion:** Product is not explosive.

**Vapour pressure at 25°C:** 1,9 Pa

**Density at 20°C:** 0,872 g/cm<sup>3</sup>

**Solubility in / Miscibility with water at 20°C:** Insoluble.

## 10. Stability and reactivity

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

### Materials to be avoided:

Oxidizing agents

Strong acids.

**Dangerous reactions:** No dangerous reactions known.

**Dangerous products of decomposition:** Carbon monoxide and carbon dioxide.

## 11. Toxicological information

### Acute toxicity:

#### LD/LC50 relevant values for the assessment:

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

Oral LD50 > 5000 mg/kg (rat)

Skin LD50 > 2000 mg/kg (rat)

### Primary irritant effect:

**On the skin:** Irritating for the skin.

**On the eye:** Irritant effect.

**Sensitization:** No sensitizing effect known.

**Additional toxicological information:** The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version: Irritant.

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### 12. Ecological information

**Information about elimination (persistence and degradability)**

**Other information:** The product is easily biodegradable.

### 13. Disposal considerations

**Product**

**Recommendation:** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

**European waste catalogue**

Waste disposal key numbers from EWC have to be assigned depending on origin and processing.

**Uncleaned packagings**

**Recommendation:** Disposal must be made according to official regulations.

### 14. Transport information

**Land transport ADR/RID and GGVS/GGVE (cross-border/domestic):**

ADR/RID-GGVS/E Class: -

**Maritime transport IMDG/GGVSee:**

IMDG/GGVSee Class: -

**Air transport ICAO-TI and IATA-DGR:**

ICAO/IATA Class: -

**Transport/Additional information:** Not dangerous according to the above specifications.

### 15. Regulatory information

**Designation according to EC guidelines:**

The product has been classified/labelled in accordance with EC Directives / relevant national laws.

**Code letter and hazard designation of product:**



Xi, Irritant

**Risk phrases**

36/38. Irritating to eyes and skin.

**Safety phrases**

2. Keep out of the reach of children.

13. Keep away from food, drink and animal feedingstuffs.

20/21. When using do not eat, drink or smoke.

36/37. Wear suitable protective clothing and gloves.

46. If swallowed, seek medical advice immediately and show this container or label.

### 16. Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Relevant R-phrases:** The(se) R-phrases are those of the ingredient(s) and do(es) not necessarily represent the classification of the preparation.

36/38. Irritating to eyes and skin.

End