

**1 Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**Trade name: CUCURBITACIN E ROTICHROM® HPLC

Article number: 9741

CAS Number:

18444-66-1

EC number:

242-325-2

**Registration number**

A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

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

No further relevant information available.

**Application of the substance / the preparation**

Laboratory chemical

**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

Carl Roth GmbH + Co. KG

Schoemperlenstraße 3-5

76185 Karlsruhe

Germany

Telefon: +49/(0)721 5606-0

Telefax: +49/(0)721 5606-149

E-Mail: [sicherheit@carlroth.de](mailto:sicherheit@carlroth.de)**Further information obtainable from:** Department Health, Safety and Environment**1.4 Emergency telephone number:**

Poison Centre Munich

Telefon +49/(0)89 19240

**2 Hazards identification****2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H312 Harmful in contact with skin.

**Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

Xn; Harmful

R21/22: Harmful in contact with skin and if swallowed.

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008**

The substance is classified and labelled according to the CLP regulation.

**Hazard pictograms**

GHS07

**Signal word** Warning

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**Hazard statements**

H302+H312 Harmful if swallowed or in contact with skin.

**Precautionary statements**

P280 Wear protective gloves / eye protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

**Additional information:**

-

**2.3 Other hazards**

All chemicals are potentially dangerous. They are therefore only be handled by specially trained personnel with the necessary care.

**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**3 Composition/information on ingredients****3.1 Chemical characterization: Substances****CAS No. Description**18444-66-1 2,16 $\alpha$ ,20,25-tetrahydroxy-9 $\beta$ -methyl-10 $\alpha$ ,-19-norlanosta-1,5,23(E)-triene-3,11,22-trione 25-acetate**Identification number(s)****EC number:** 242-325-2**Formula:** C<sub>32</sub>H<sub>44</sub>O<sub>8</sub> (Hill)**Molar mass [g/mol]:** 556,69**4 First aid measures****4.1 Description of first aid measures****General information:**

Remove any clothing soiled by the product.

**After inhalation:**

Supply fresh air; if there is any trouble seek medical help.

**After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If there is any trouble seek medical help.

**After eye contact:**

Rinse opened eye for 10 minutes under running water. Then consult a doctor.

To be sure rinse opened eye under running water. If there is any trouble seek medical help.

**After swallowing:**

Rinse out mouth and drink a glass of water. Do not induce vomiting.

Seek medical treatment.

**4.2 Most important symptoms and effects, both acute and delayed**

We have no description of any toxic symptoms.

**4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

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## 5 Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing agents:**

Use fire extinguishing methods suitable to surrounding conditions.  
CO<sub>2</sub>, powder, foam.

**For safety reasons unsuitable extinguishing agents:**

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

### 5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

In the event of fire development of hazardous combustion gases or vapours possible.  
Carbon monoxide and carbon dioxide

### 5.3 Advice for firefighters

**Protective equipment:**

Wear self-contained respiratory protective device.  
Wear fully protective suit.

## 6 Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with the eyes and skin.  
Ensure adequate ventilation  
Avoid formation of dust.

### 6.2 Environmental precautions

Do not allow to enter sewers/ground water or penetrate the soil.

### 6.3 Methods and material for containment and cleaning up

Pick up mechanically.  
Avoid formation of dust  
Dispose of the material collected according to regulations.  
Ensure adequate ventilation.

### 6.4 Reference to other sections

See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## 7 Handling and storage

### 7.1 Precautions for safe handling

Keep containers, equipment and working place clean.  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of dust.

**Information about fire - and explosion protection:**

Keep respiratory protective device available.

### 7.2 Conditions for safe storage, including any incompatibilities

**Storage:**

**Requirements to be met by storerooms and receptacles:**  
Store in a cool location.

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**Information about storage in one common storage facility:**

Store away from foodstuffs.

**Further information about storage conditions:**Store in cool, dry conditions in well sealed receptacles.  
Protect from exposure to the light.**Recommended storage temperature:** +4 °C**7.3 Specific end use(s)**

No further relevant information available.

**8 Exposure controls/personal protection****Additional information about design of technical facilities:**

No further data; see item 7.

**8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:** Not required.**Additional information:**

The lists valid during the making were used as basis.

**8.2 Exposure controls****Personal protective equipment:****General protective and hygienic measures:**Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.**Individual protection measures**

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

**Respiratory protection:**

Particle filter required when dusts are generated.

Recommended filter typ:

Filter P2 (colour code: white)

**Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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**Material of gloves**

Nitrile, thickness &gt;0,3 mm.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

**Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**As protection from splashes gloves made of the following materials are suitable:**Nitrile rubber, thickness:  $\geq 0.11$  mm**Eye protection:**

Tightly sealed goggles

**Body protection:**

Protective work clothing

## 9 Physical and chemical properties

**9.1 Information on basic physical and chemical properties****General Information****Appearance:**

<b>Form:</b>	Powder
<b>Colour:</b>	Whitish
<b>Odour:</b>	Odourless
<b>Odour threshold:</b>	No information available.

**pH-value:** Not determined.

**Change in condition**

<b>Melting point/Melting range:</b>	234 - 237 °C
<b>Boiling point/Boiling range:</b>	No information available.

**Flash point:** Not applicable.

**Flammability (solid, gaseous):** No information available

**Ignition temperature:** No information available

**Decomposition temperature:** No information available

**Self-igniting:** Not determined.

**Danger of explosion:** The product is not explosive. However, dust may form an explosive mixture with air.

**Explosion limits:**

<b>Lower:</b>	No information available.
<b>Upper:</b>	No information available.

**Oxidizing properties:** No information available.

**Vapour pressure:** Not applicable.

**Density:** Not determined.

**Relative density** No Information available.

**Vapour density** Not applicable.

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<b>Evaporation rate</b>	Not applicable.
<b>Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.
<b>Partition coefficient (n-octanol/water):</b>	Not determined.
<b>Viscosity:</b>	
<b>Dynamic:</b>	No information available.
<b>Kinematic:</b>	No information available.
<b>9.2 Other information</b>	No further relevant information available.

## 10 Stability and reactivity

**10.1 Reactivity**

No information available

**10.2 Chemical stability****Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.

**10.3 Possibility of hazardous reactions**

No information available.

**10.4 Conditions to avoid**

No information available.

**10.5 Incompatible materials:**

Strong oxidizing agents.

**10.6 Hazardous decomposition products:**

In case of fire: see item 5.

## 11 Toxicological information

**11.1 Information on toxicological effects****Acute toxicity:****LD/LC50 values relevant for classification:**

Oral | LD50 | 340 mg/kg (mouse) (TOXNET)

**Primary irritant effect:****on the skin:**

No information available.

**on the eye:**

No information available.

**after inhalation:**

No information available.

**Sensitization:**

No sensitizing effects known.

**CMR effects:****Germ cell mutagenicity:**

No known significant effects or critical hazards.

**Carcinogenicity:**

No known significant effects or critical hazards.

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**Reproductive toxicity:**

No known significant effects or critical hazards.

**Aspiration hazard:**

No aspiration toxicity classification.

**Specific target organ toxicity - single exposure**

The substance or mixture is not classified as specific target organ toxicant, single exposure.

**Specific target organ toxicity - repeated exposure**

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Additional toxicological information:**After swallowing:

Vomiting

gastric pain

Diarrhoea

Blood pressure drop

Circulatory collapse

**Further information:**

The product should be handled with the care usual when dealing with chemicals.

**12 Ecological information****12.1 Toxicity****Aquatic toxicity:**

Quantitative data on the ecological effect of this product are not available.

**12.2 Persistence and degradability**

No further relevant information available.

**12.3 Bioaccumulative potential**

No further relevant information available.

**12.4 Mobility in soil**

No further relevant information available.

**Ecotoxicological effects:****Remark:**

Do not allow to enter waters, waste water, or soil!

**12.5 Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**12.6 Other adverse effects**

No further relevant information available.

**13 Disposal considerations****Waste treatment methods****Recommendation**

This material and its container must be disposed of as hazardous waste.

The disposal is regionally differently regulated, therefore the kind of disposal is to be inquired at the responsible authorities.

**Uncleaned packaging:****Recommendation:**

Disposal according to official regulations.

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## 14 Transport information

<b>14.1 UN-Number</b>	
ADR, ADN, IMDG, IATA	Void
<b>14.2 UN proper shipping name</b>	
ADR, ADN, IMDG, IATA	Void
<b>14.3 Transport hazard class(es)</b>	
ADR, ADN, IMDG, IATA Class	Void
<b>14.4 Packing group</b>	
ADR, IMDG, IATA	Void
<b>14.5 Environmental hazards:</b>	
Marine pollutant:	No
<b>14.6 Special precautions for user</b>	Not applicable.
<b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
<b>UN "Model Regulation":</b>	-

## 15 Regulatory information

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

#### National regulations:

#### Information about limitation of use:

Employment restrictions concerning pregnant and lactating women must be observed.  
Employment restrictions concerning juveniles must be observed.

#### Waterhazard class:

Water hazard class 1 (Self-assessment): slightly hazardous for water.

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Department issuing MSDS:** Department: Health, Safety and Environment

**Contact:** Herr Heine

#### Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

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IATA: International Air Transport Association  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
LD50\*: Lethal Dose, 50 percent (Not relevant for classification)  
LD50\*: Lethal Concentration, 50 percent (Not relevant for classification)  
**\* Data compared to the previous version altered.**

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