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

Product identifier
Cinnamon bark ceylanicum CO2-se extract_034.013

Further trade names
Zimtrinden ceylanicum CO2-se Extrakt (ökol.), Typ Nr. 034.013
Cinnamon bark ceylanicum CO2-se extract (organic), type no. 034.013

CAS No.: 84649-98-9
EC No.: 283-479-0

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

Use of the substance/mixture
In food industry and in pharmaceuticals
In perfumery and in aromatherapy

SECTION 2: Hazards identification

Classification of the substance or mixture
Indications of danger: Harmful, Irritant
R-phrases:
Irritating to respiratory system and skin.
Risk of serious damage to eyes.
May cause sensitization by inhalation and skin contact.
Harmful: may cause lung damage if swallowed.

GHS classification
Hazard categories:
Skin corrosion/irritation: Skin Irrit. 2
Serious eye damage/eye irritation: Eye Irrit. 2
Respiratory/skin sensitization: Resp. Sens. 1
Respiratory/skin sensitization: Skin Sens. 1
Specific target organ toxicity - single exposure: STOT SE 3
Aspiration hazard: Asp. Tox. 1
Hazard Statements:
Causes skin irritation.
Causes serious eye irritation.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
May cause respiratory irritation.
Cinnamon bark ceylanicum CO2-se extract_034.013

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according to Regulation (EC) No. 1907/2006

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May be fatal if swallowed and enters airways.

Label elements

Signal word: Danger
Pictograms: GHS07-GHS08

Hazardous components which must be listed on the label

Cinnamomum zeylanicum, ext.

Hazard statements

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H304 May be fatal if swallowed and enters airways.

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Additional advice on labelling

The classification was undertaken in accordance with the method of calculation governed by the preparation regulations (1999/45/EC).

Other hazards

Special skid risk by leaking/spilling product.

May cause allergic reactions.

SECTION 3: Composition/information on ingredients

Chemical characterization

INCI-Name (CTFA): Cinnamomum Zeylanicum Bark Extract, CAS-no. 84649-98-9;
EC-no.: 283-479-0

contains 55 - 75 % Cinnamaldehyde [CAS-no. 104-55-2], < 5 % o-Methoxycinnamaldehyde

Hazardous components

<table>
<thead>
<tr>
<th>EC No.</th>
<th>Chemical name</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>283-479-0</td>
<td>Cinnamomum zeylanicum, ext.</td>
<td>100 %</td>
</tr>
<tr>
<td>84649-98-9</td>
<td>Xn, Xi R37/38-41-42/43-65</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, STOT SE 3, Asp. Tox. 1; H315 H319 H334 H317 H335 H304</td>
<td></td>
</tr>
</tbody>
</table>

Full text of R- and H-phrases: see section 16.
Further Information
no solvent residues

SECTION 4: First aid measures
Description of first aid measures

General information
In case of accident or if you feel unwell, seek medical advice immediately (show safety data sheet if possible).
Seek medical attention if problems persist.

After inhalation
Provide fresh air.

After contact with skin
After contact with skin, wash immediately with: Water and soap.
Seek medical attention if problems persist.

After contact with eyes
In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Consult an ophthalmologist.

After ingestion
Rinse mouth immediately and drink large quantities of water. Consult physician.

SECTION 5: Firefighting measures
Extinguishing media

Suitable extinguishing media
foam, CO2, powder

Extinguishing media which must not be used for safety reasons
water stream

Special hazards arising from the substance or mixture
formation of dangerous fumes possible

Advice for firefighters
In case of fire: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures
Personal precautions, protective equipment and emergency procedures
Avoid contact with skin and eyes, concentrated extracts should not be swallowed.
Wear personal protection equipment.
Provide adequate ventilation.
Wear respiratory protection when in the presence of vapour, dust, and aerosols.

Environmental precautions
keep away from canalisation, waterway, groundwater

Methods and material for containment and cleaning up
suck up with oil binding media. Remove mechanically, placing in appropriate containers for disposal.

SECTION 7: Handling and storage
Precautions for safe handling

Advice on safe handling
Avoid contact with skin and eyes, concentrated extracts should not be swallowed.
wear splash goggles and oilresistant gloves
Do not breathe gas/fumes/vapour/spray.
Safety Data Sheet

according to Regulation (EC) No. 1907/2006

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Advisory on protection against fire and explosion
Keep away from sources of ignition - No smoking.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels
no special measures necessary

Further information on storage conditions
keep dark and dry, avoid heat

SECTION 8: Exposure controls/personal protection

Control parameters

Exposure controls

Protective and hygiene measures
remove contaminated clothes

Respiratory protection
do not breathe vapour / aerosol
Respiratory protection required in case of: aerosol or mist generation.
Filter respirator with filter or ventilator type: A

Hand protection
When handling chemical substances, chemical protective gloves must be worn with CE label including a four digit code. German Industry Norms (DIN) / European Norms (EN): EN 374

Eye protection
wear splash goggles

Skin protection
wear clothing as usual in chemical industry, remove contaminated clothes. After contact with skin, wash immediately with: Water and soap.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state:</th>
<th>clear oil</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour:</td>
<td>brown - yellow</td>
</tr>
<tr>
<td>Odour:</td>
<td>cinnamon smell</td>
</tr>
<tr>
<td>pH-Value:</td>
<td>no data available</td>
</tr>
</tbody>
</table>

Changes in the physical state

<table>
<thead>
<tr>
<th>Melting point:</th>
<th>no data available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling point:</td>
<td>no data available</td>
</tr>
<tr>
<td>Sublimation point:</td>
<td>no data available</td>
</tr>
<tr>
<td>Softening point:</td>
<td>no data available</td>
</tr>
<tr>
<td>Flash point:</td>
<td>&gt;61 °C closed cup</td>
</tr>
<tr>
<td>Lower explosion limits:</td>
<td>no data available</td>
</tr>
<tr>
<td>Upper explosion limits:</td>
<td>no data available</td>
</tr>
<tr>
<td>Vapour pressure:</td>
<td>no data available</td>
</tr>
<tr>
<td>Density (at 20 °C):</td>
<td>1,020 - 1,029 g/cm³ pycnometer</td>
</tr>
<tr>
<td>Water solubility:</td>
<td>unsoluble</td>
</tr>
<tr>
<td>Solubility in other solvents:</td>
<td>good soluble in fat phases</td>
</tr>
</tbody>
</table>

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SECTION 10: Stability and reactivity

Conditions to avoid
heat, open flame, sun light

Incompatible materials
Oxidizing agents.

Hazardous decomposition products
none - when carefully used

Further information
no decomposition in the application field

SECTION 11: Toxicological information

Information on toxicological effects

Toxicocinetics, metabolism and distribution
According to our knowledge, the chemical, physical and toxicological properties have not been examined extensively.

Acute toxicity
no data available

Specific effects in experiment on an animal
no data available

Irritation and corrosivity
Cinnamaldehyde [CAS-no. 104-55-2]:
Irritant effect on the skin: Human. 40 mg 48 h strong irritant effect

Sensitizing effects
may cause sensitization by skin contact

Severe effects after repeated or prolonged exposure
no data available

Carcinogenic/mutagenic/toxic effects for reproduction
no data available

Empirical data on effects on humans
Irritating to eyes, respiratory system and skin
May cause allergic reactions of the skin

Further information
Acute toxicity, irritation of the skin and mucous membrane, and mutagenic potential of the preparation assessed by the manufacturer on the basis of the data sheets available on the main components. Information gaps exist on some of the main individual components. However, according to the experience of the manufacturer, no dangers above and beyond those on the product label are to be expected.

SECTION 12: Ecological information

Toxicity
No data for ecological evaluation on hand Under appropriate use there are no ecological problems to expect.

Persistence and degradability
no data available
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Bioaccumulative potential
no data available

Mobility in soil
no data available

Results of PBT and vPvB assessment
no data available

Further information
no heavy metals and inorganic components

SECTION 13: Disposal considerations

Waste treatment methods

Advice on disposal
in accordance with valid regulations

Waste disposal number of waste from residues/unused products
160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing dangerous substances
Classified as hazardous waste.

Contaminated packaging
in accordance with valid regulations

SECTION 14: Transport information

Other applicable information
no dangerous good in the sense of the transport regulations

SECTION 15: Regulatory information

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

National regulatory information
Employment restrictions: Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.
Water contaminating class (D): 2 - water contaminating

Chemical Safety Assessment
For this substance a chemical safety assessment is not required.

SECTION 16: Other information

Changes
Reason for revision: general revision of whole document

Full text of R-phrases referred to under sections 2 and 3
37/38 Irritating to respiratory system and skin.
41 Risk of serious damage to eyes.
42/43 May cause sensitization by inhalation and skin contact.
65 Harmful: may cause lung damage if swallowed.

Full text of H-Statements referred to under sections 2 and 3
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

The receiver of our product is singulary responsible for adhering to existing laws and regulations.