## Safety data sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)

## [6]-Gingerol ROTICHROM® HPLC

article number: $\mathbf{T 8 9 5}$
Version: 3.0 en
Replaces version of: 2021-12-02
Version: (2)

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

### 1.1 Product identifier

Identification of the substance
Article number
CAS number
[6]-Gingerol ROTICHROM® HPLC
T895
23513-14-6
1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses:

Uses advised against:
1.3 Details of the supplier of the safety data sheet

Carl Roth GmbH + Co. KG
Schoemperlenstr. 3-5
D-76185 Karlsruhe
Germany
Telephone:+49 (0) 721-56 060
Telefax: +49 (0) 721-56 06149
e-mail: sicherheit@carlroth.de
Website: www.carlroth.de
Competent person responsible for the safety data sheet:
e-mail (competent person):
1.4 Emergency telephone number

Laboratory chemical Laboratory and analytical use

Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household). Food, drink and animal feedingstuffs.

| Name | Street | Postal <br> code/city | Telephone | Website |
| :---: | :---: | :---: | :---: | :---: |
| National Poisons Information <br> Service <br> City Hospital | Dudley Rd | B187QH <br> Birmingham | 8448920111 |  |

## SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification acc. to GHS

| Section | Hazard class | Cat- <br> egory | Hazard class and <br> category | Hazard <br> statement |
| :---: | :---: | :---: | :---: | :---: |
| 3.10 | Acute toxicity (oral) | 3 | Acute Tox. 3 | H301 |
| 3.2 | Skin corrosion/irritation | 2 | Skin Irrit. 2 | H315 |
| 3.3 | Serious eye damage/eye irritation | 2 | Eye Irrit. 2 | H 319 |
|  |  |  |  |  |

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| Section | Hazard class | Cat- <br> egory | Hazard class and <br> category | Hazard <br> statement |
| :---: | :---: | :---: | :---: | :---: |
| 3.8 R | Specific target organ toxicity - single exposure (respirat- <br> ory tract irritation) | 3 | STOT SE 3 | H335 |

For full text of abbreviations: see SECTION 16

### 2.2 Label elements

Labelling
Signal word Danger

Pictograms

GHSO6


## Hazard statements

| H301 | Toxic if swallowed |
| :--- | :--- |
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |
| H335 | May cause respiratory irritation |

## Precautionary statements

Precautionary statements - prevention
P280 Wear protective gloves/protective clothing/eye protection/face protection

## Precautionary statements - response

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor
P302+P352 IF ON SKIN: Wash with plenty of water
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

### 2.3 Other hazards

Special danger of slipping by leaking/spilling product.
Results of PBT and vPvB assessment
According to the results of its assessment, this substance is not a PBT or a vPvB.

## Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1 \%$.

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## SECTION 3: Composition/information on ingredients

### 3.1 Substances

| Name of substance | $[6]-$ Gingerol |
| :--- | :--- |
| Molecular formula | $\mathrm{C}_{17} \mathrm{H}_{26} \mathrm{O}_{4}$ |
| Molar mass | $294,4 \mathrm{~g} / \mathrm{mol}$ |
| CAS No | $23513-14-6$ |

Substance, Specific Conc. Limits, M-factors, ATE

| Specific Conc. Limits | M-Factors | ATE | Exposure route |
| :---: | :---: | :---: | :---: |
| - | - | $250 \mathrm{mg} / \mathrm{kg}$ | oral |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures



## General notes

Take off contaminated clothing.

## Following inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.
Following skin contact
Rinse skin with water/shower. In case of skin irritation, consult a physician.
Following eye contact
Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. In case of eye irritation consult an ophthalmologist.

## Following ingestion

 Rinse mouth immediately and drink plenty of water. Call a physician immediately.
### 4.2 Most important symptoms and effects, both acute and delayed

Irritation, Cough, Dyspnoea
4.3 Indication of any immediate medical attention and special treatment needed none

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media



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Suitable extinguishing media
co-ordinate firefighting measures to the fire surroundings! water spray, dry extinguishing powder, BC-powder, carbon dioxide $\left(\mathrm{CO}_{2}\right)$
Unsuitable extinguishing media
water jet
5.2 Special hazards arising from the substance or mixture

Combustible.
Hazardous combustion products
In case of fire may be liberated: Carbon monoxide (CO), Carbon dioxide $\left(\mathrm{CO}_{2}\right)$

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

## SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures


For non-emergency personnel
Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Do not breathe vapour/spray.
6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.
6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill
Covering of drains.
Advice on how to clean up a spill
Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).
Other information relating to spills and releases
Place in appropriate containers for disposal.
6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8 . Incompatible materials: see section 10. Disposal considerations: see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Provision of sufficient ventilation. Clear contaminated areas thoroughly.
Advice on general occupational hygiene
When using do not eat or drink. Thorough skin-cleansing after handling the product.
7.2 Conditions for safe storage, including any incompatibilities

Keep in a cool place.
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Incompatible substances or mixtures
Observe hints for combined storage.
Consideration of other advice:
Store locked up.
Specific designs for storage rooms or vessels
Recommended storage temperature: $2-8{ }^{\circ} \mathrm{C}$

### 7.3 Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

National limit values
Occupational exposure limit values (Workplace Exposure Limits)
This information is not available.
8.2 Exposure controls

Individual protection measures (personal protective equipment)
Eye/face protection


Use safety goggle with side protection.
Skin protection


## - hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at $22^{\circ} \mathrm{C}$ and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

- type of material

NBR (Nitrile rubber)

- material thickness
$>0,11 \mathrm{~mm}$
- breakthrough times of the glove material
>480 minutes (permeation: level 6)


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- other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended
Respiratory protection


Respiratory protection necessary at: Aerosol or mist formation.
Environmental exposure controls
Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

| Physical state | liquid |
| :---: | :---: |
| Form | viscous |
| Colour | colourless - light yellow |
| Odour | odourless |
| Melting point/freezing point | $25-28^{\circ} \mathrm{C}$ |
| Boiling point or initial boiling point and boiling range | not determined |
| Flammability | this material is combustible, but will not ignite readily |
| Lower and upper explosion limit | not determined |
| Flash point | not determined |
| Auto-ignition temperature | not determined |
| Decomposition temperature | not relevant |
| pH (value) | not determined |
| Kinematic viscosity | not determined |
| Solubility(ies) |  |
| Water solubility | (poorly soluble) |
| Solubility in methanol | soluble |
| $\underline{\text { Partition coefficient }}$ |  |
| Partition coefficient n-octanol/water (log value): | 2,72 (TOXNET) |
| Vapour pressure | not determined |
| Density and/or relative density |  |
| Density | $1 \mathrm{~g} / \mathrm{cm}^{3}$ at $20^{\circ} \mathrm{C}$ |

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Relative vapour density
Information on this property is not available.

Particle characteristics not relevant (liquid)

Other safety parameters
Oxidising properties
none

### 9.2 Other information

Information with regard to physical hazard
hazard classes acc. to GHS classes:

Other safety characteristics:
(physical hazards): not relevant
There is no additional information.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This material is not reactive under normal ambient conditions.

### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### 10.3 Possibility of hazardous reactions

Violent reaction with: strong oxidiser

### 10.4 Conditions to avoid

Keep away from heat.

### 10.5 Incompatible materials

There is no additional information.

### 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Classification acc. to GHS

## Acute toxicity

Toxic if swallowed.
Acute toxicity

| Exposure route | Endpoint | Value | Species | Method | Source |
| :---: | :---: | :---: | :---: | :---: | :---: |
| oral | LD50 | $250^{\mathrm{mg}} / \mathrm{kg}$ | mouse |  | TOXNET |

Skin corrosion/irritation
Causes skin irritation.
Serious eye damage/eye irritation
Causes serious eye irritation.

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## Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

## Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

## Carcinogenicity

Shall not be classified as carcinogenic.

## Reproductive toxicity

Shall not be classified as a reproductive toxicant.

## Specific target organ toxicity - single exposure

May cause respiratory irritation.
Specific target organ toxicity - repeated exposure
Shall not be classified as a specific target organ toxicant (repeated exposure).

## Aspiration hazard

Shall not be classified as presenting an aspiration hazard
Symptoms related to the physical, chemical and toxicological characteristics

- If swallowed

Data are not available.

- If in eyes

Causes serious eye irritation

- If inhaled

Irritation to respiratory tract, cough, Dyspnoea

- If on skin
causes skin irritation
- Other information
none


### 11.2 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1 \%$.

### 11.3 Information on other hazards

There is no additional information.

## SECTION 12: Ecological information

### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

### 12.2 Persistence and degradability

Theoretical Oxygen Demand: $2,337 \mathrm{mg} / \mathrm{mg}$
Theoretical Carbon Dioxide: $2,541 \mathrm{mg} / \mathrm{mg}$

### 12.3 Bioaccumulative potential

Does not significantly accumulate in organisms.
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| n-octanol/water (log KOW) | 2,72 (TOXNET) |
| :--- | :--- |

### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

Data are not available.

### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1 \%$.

### 12.7 Other adverse effects

Data are not available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

## Sewage disposal-relevant information

Do not empty into drains.

## Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

### 13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.
Properties of waste which render it hazardous
HP 4 irritant - skin irritation and eye damage
HP 5 specific target organ toxicity (STOT)/aspiration toxicity
HP 6 acute toxicity

### 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions. Non-contaminated packages may be recycled.

## SECTION 14: Transport information

### 14.1 UN number or ID number

| ADRRID | UN 2810 |
| :--- | :--- |
| IMDG-Code | UN 2810 |
| ICAO-TI | UN 2810 |

### 14.2 UN proper shipping name

ADRRID
TOXIC LIQUID, ORGANIC, N.O.S.

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IMDG-Code TOXIC LIQUID, ORGANIC, N.O.S.
ICAO-TI
Technical name

Toxic liquid, organic, n.o.s.
[6]-Gingerol
14.3 Transport hazard class(es)

ADRRID
6.1

IMDG-Code 6.1
ICAO-TI
6.1
14.4 Packing group

ADRRID III

IMDG-Code III
ICAO-TI III
14.5 Environmental hazards
non-environmentally hazardous acc. to the dangerous goods regulations

### 14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.
14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.
14.8 Information for each of the UN Model Regulations

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)Additional information

Proper shipping name
Particulars in the transport document

Classification code
Danger label(s)


Special provisions (SP)
Excepted quantities (EQ)
Limited quantities (LQ)
Transport category (TC)
Tunnel restriction code (TRC)
Hazard identification No 60

Emergency Action Code
T1
6.1

E1
5 L

TOXIC LIQUID, ORGANIC, N.O.S.
UN2810, TOXIC LIQUID, ORGANIC, N.O.S., ([6]Gingerol), 6.1, III, (E)

274, 614, 802(ADN)

Regulations concerning the International Carriage of Dangerous Goods by Rail (RID)Additional information

Classification code
T1
Danger label(s)
6.1

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| 倉 |  |
| :---: | :---: |
| Special provisions (SP) | 274, 614, 802(ADN) |
| Excepted quantities (EQ) | E1 |
| Limited quantities (LQ) | 5 L |
| Transport category (TC) | 2 |
| Hazard identification No | 60 |
| International Maritime Dangerous Goods Code (IMDG) - Additional information |  |
| Proper shipping name | TOXIC LIQUID, ORGANIC, N.O.S. |
| Particulars in the shipper's declaration | UN2810, TOXIC LIQUID, ORGANIC, N.O.S., ([6]Gingerol), 6.1, III |
| Marine pollutant | - |
| Danger label(s) | 6.1 |
| Special provisions (SP) | 223, 274 |
| Excepted quantities (EQ) | E1 |
| Limited quantities (LQ) | 5 L |
| EmS | F-A, S-A |
| Stowage category | A |
| International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information |  |
| Proper shipping name | Toxic liquid, organic, n.o.s. |
| Particulars in the shipper's declaration | UN2810, Toxic liquid, organic, n.o.s., ([6]-Gingerol), 6.1, III |
| Danger label(s) | 6.1 |
| Special provisions (SP) | A3, A4, A137 |
| Excepted quantities (EQ) | E1 |
| Limited quantities (LQ) | 2 L |
| TION 15: Regulatory information |  |

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

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Relevant provisions of the European Union (EU)
Seveso Directive

| $\mathbf{2 0 1 2 / 1 8 / E U ~ ( S e v e s o ~ I I I ) ~}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| No | Dangerous substance/hazard categories | Qualifying quantity (tonnes) for the ap- <br> plication of lower and upper-tier re- <br> quirements | Notes |

## Notation

41)     - Category 2, all exposure routes

- category 3, inhalation exposure route

Deco-Paint Directive

| VOC content | $100 \%$ |
| :--- | :--- |
| VOC content | $1.000 \mathrm{~g} / \mathrm{I}$ |

Industrial Emissions Directive (IED)

| VOC content | $100 \%$ |
| :--- | :--- |
| VOC content | $1.000 \frac{\mathrm{~m} / \mathrm{I}}{}$ |

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)
not listed
Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)
not listed
Water Framework Directive (WFD)
not listed
Regulation on the marketing and use of explosives precursors
not listed
Regulation on drug precursors
not listed
Regulation on substances that deplete the ozone layer (ODS)
not listed
Regulation concerning the export and import of hazardous chemicals (PIC)
not listed
Regulation on persistent organic pollutants (POP)
not listed
National regulations(GB)
List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list not listed

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Dangerous substances with restrictions (GB REACH, Annex 17)

| Name of substance | Name acc. to inventory | CAS No | No |
| :---: | :---: | :---: | :---: |
| $[6]-G i n g e r o l$ | this product meets the criteria for classi- <br> fication in accordance with Regulation No <br> $1272 / 2008 / E C$ | 3 |  |

## Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive ( $92 / 85 / \mathrm{EEC}$ ) for expectant or nursing mothers.

National inventories

| Country | Inventory | Status |
| :---: | :---: | :---: |
| TW | TCSI | substance is listed |
| VN | NCI | substance is listed |

Legend
NCI
National Chemical Inventory
TCSI Taiwan Chemical Substance Inventory

### 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance.

## SECTION 16: Other information

Indication of changes (revised safety data sheet)

| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
| :---: | :---: | :---: | :---: |
| 2.2 | Labelling of packages where the contents do not exceed 125 ml : Signal word: Danger |  | yes |
| 2.2 |  | Labelling of packages where the contents do not exceed 125 ml : change in the listing (table) | yes |
| 2.2 |  | Labelling of packages where the contents do not exceed 125 ml : change in the listing (table) | yes |
| 2.2 |  | Labelling of packages where the contents do not exceed 125 ml : change in the listing (table) | yes |
| 2.3 |  | Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1 \%$. | yes |
| 14.8 |  | Regulations concerning the International Carriage of Dangerous Goods by Rail (RID)Additional information | yes |
| 14.8 |  | Classification code: T1 | yes |
| 14.8 |  | Danger label(s): $6.1$ | yes |

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| Section | Former entry (text/value) | Actual entry (text/value) | Safety- <br> relev- <br> ant |
| :---: | :---: | :---: | :---: |
| 14.8 |  | Danger label(s): <br> change in the listing (table) | yes |
| 14.8 | Special provisions (SP): <br> 274, 614, 802(ADN) |  |  |
| 14.8 | Excepted quantities (EQ): |  |  |
| E1 |  |  |  |

Abbreviations and acronyms

| Abbr. | Descriptions of used abbreviations |
| :---: | :---: |
| ADR | Accord relatif au transport international des marchandises dangereuses par route (Agreement concern- <br> ing the International Carriage of Dangerous Goods by Road) |
| ATE | Acute Toxicity Estimate |
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) |
| DGR | Dangerous Goods Regulations (see IATA/DGR) |
| ED | Endocrine disruptor |
| EmS | Emergency Schedule |

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| Abbr. | Descriptions of used abbreviations |
| :---: | :---: |
| GB REACH | The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended) |
| GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations |
| IATA | International Air Transport Association |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA) |
| ICAO | International Civil Aviation Organization |
| ICAO-TI | Technical instructions for the safe transport of dangerous goods by air |
| IMDG | International Maritime Dangerous Goods Code |
| IMDG-Code | International Maritime Dangerous Goods Code |
| LD50 | Lethal Dose $50 \%$ : the LD50 corresponds to the dose of a tested substance causing $50 \%$ lethality during a specified time interval |
| PBT | Persistent, Bioaccumulative and Toxic |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail) |
| VOC | Volatile Organic Compounds |
| vPvB | Very Persistent and very Bioaccumulative |

Key literature references and sources for data
Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).
List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text |
| :---: | :---: |
| H301 | Toxic if swallowed. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |

## Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

