

Revision: 09.01.2012

Printing date 17.01.2012

Version number 1

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

· Product identifier

· Trade name: Kaempferol-3-rhamnosidoglucoside ROTICHROM® HPLC

· Article number: 4526

· **CAS Number:** 17650-84-9

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

· Application of the substance / the preparation Laboratory chemical

· 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

· Further information obtainable from: Department Health, Safety and Environment

• Emergency telephone number: Poison Centre Munich Telefon +49/(0)89 19240

2 Hazards identification

- · Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

Acute Tox. 4 H302 Harmful if swallowed.

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

Xn; Harmful

R22: Harmful if swallowed.

- · 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
- · Hazard statements

H302 Harmful if swallowed.

· Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/clothing.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Other hazards

All chemicals are potentially dangerous. They should only be handled by specially trained personnel.

- Results of PBT and vPvB assessment
- · PBT: Not applicable.
- vPvB: Not applicable.

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3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description

17650-84-9 Kaempferol-3-rhamnosidoglucoside

· Identification number(s) -

4 First aid measures

- · Description of first aid measures
- · General information:

Remove any clothing soiled by the product.

General advice: No induce of vomiting by layman.

- · After inhalation: Supply fresh air and to be sure call for a doctor.
- · After skin contact:

Immediately rinse with water.

If there is any trouble seek medical help.

· After eye contact:

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 advice immediately and show the container or label.

- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Firefighting measures

- Extinguishing media
- · Suitable extinguishing agents:

Use fire extinguishing methods suitable to surrounding conditions.

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Avoid formation of dust.

- · Environmental precautions: Do not allow to enter sewers/ground water or penetrate the soil.
- Methods and material for containment and cleaning up:

Pick up mechanically.

Dispose of the material collected according to regulations.

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.

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7 Handling and storage

- · Handling:
- · Precautions for safe handling

Handling corresponding to laboratory safety guidelines.

Prevent formation of dust.

- · Information about fire and explosion protection: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Store away from foodstuffs.
- · Further information about storage conditions: Protect from exposure to the light.
- · Recommended storage temperature: +4 °C
- · 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.
- · 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.
- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:

Do not eat, drink or smoke while working.

Do not breathe dust.

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.

· Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Required when dusts are generated.

· Protection of hands:

Due to missing tests no recommendation to the glove material can be given for the product.



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

Material of gloves

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.

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· Eye protection:

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Tightly sealed goggles

· Body protection: Protective work clothing

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Information on basic physical and chemical properties
· General Information

· Appearance:

Appearance

· pH-value:

Form: Solid Yellow
Odour: Odourless
Odour threshold: Not determined.

Change in condition
 Melting point/Melting range:
 Boiling point/Boiling range:

190-192 °C°C Undetermined.

Not applicable.

Not applicable.

· Flash point:
· Flammability (solid, gaseous):

Product is not flammable.

· Ignition temperature:

Decomposition temperature:

Not determined.

· Danger of explosion:

Product does not present an explosion hazard.

· Explosion limits:

Lower: Upper:

· Self-igniting:

Not determined.

· Vapour pressure:

Not determined.

Not applicable.

· Density:

Not determined.

Relative densityVapour densityEvaporation rate

Not applicable.

Solubility in / Miscibility with

water:

Partly soluble.

· Segregation coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic: Kinematic:

Not applicable.
Not applicable.

Other information

No further relevant information available.

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10 Stability and reactivity

- · Reactivity
- Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

- · Possibility of hazardous reactions No information available.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: Strong oxidizing agents.
- · Hazardous decomposition products: No information available.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- LD/LC50 values relevant for classification: Quantitative data on the toxicity of this product are not available.
- · 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.
- Additional toxicological information:

Harmful if swallowed.

We have no description of any toxic symptoms.

· Further information: The product should be handled with the care usual when dealing with chemicals.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: Quantitative data on the ecological effect of this product are not available.
- · Persistence and degradability No further relevant information available.
- Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Do not allow to enter waters, waste water, or soil!
- Additional ecological information:
- · General notes: Do not allow product to reach ground water, water course or sewage system.
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation

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

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

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- · Uncleaned packaging:
- · Recommendation: Disposal according to official regulations.

4 Transport information	
· UN-Number · ADR, ADN, IMDG, IATA	Void
· UN proper shipping name · ADR, ADN, IMDG, IATA	Void
· Transport hazard class(es)	
· ADR, ADN, IMDG, IATA · Class	Void
· Packing group · ADR, IMDG, IATA	Void
· Environmental hazards: · Marine pollutant:	No
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR · Remarks:	Not subject to transport regulations.
· UN "Model Regulation":	-

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- National regulations:
- · Information about limitation of use: In dealing with chemicals the national laws must be observed.
- · Waterhazard class: Generally not hazardous for water (German regulation).
- · 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:

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

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

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

· * Data compared to the previous version altered.