*

*

Printing date 27.10.2011

Safety data sheet according to Regulation (EC) No. 1907/2006

Version number 1



1 Identification of the substance/mixture and of	the company/undertaking	
· Product identifier		
· Trade name: Cichoric acid ROTICHROM® HPLC		
 Article number: 1130 CAS Number: 70831-56-0 Relevant identified uses of the substance or mixture an Application of the substance / the preparation Laborato 		
 Details of the supplier of the safety data sheet Manufacturer/Supplier: Carl Roth GmbH + Co. KG Schoemperlenstraße 3-5 76185 Karlsruhe Telefon: +49/(0)721 5606-0 	Telefax: +49/(0)721 5606-149 E-Mail: info@carlroth.de	
 Further information obtainable from: Department Heal Emergency telephone number: Poison Centre Munich 	th, Safety and Environment Telefon +49/(0)89 19240	
2 Hazards identification		
 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/20 	08 Void	
· Classification according to Directive 67/548/EEC or Di		
 Label elements Labelling according to Regulation (EC) No 1272/2008 Void Hazard pictograms Void Signal word Void Hazard statements Void 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. 		
 3 Composition/information on ingredients • Chemical characterization: Substances • CAS No. Description 70831-56-0 2,3-Dicaffeoyltartaric acid 		
· Identification number(s) -		
4 First aid measures		
 Description of first aid measures General information: Immediately remove any clothing s After inhalation: Supply fresh air; if there is any trouble s After skin contact: Immediately rinse with water. If skin irritation continues, consult a doctor. After eye contact: Rinse opened eye for 10 minutes under After swallowing: Rinse out mouth and drink a glass of water. Do not induce If symptoms persist consult doctor. Information for doctor: 	seek medical help. running water. If symptoms persist, consult a doctor. vomiting.	
· Most important symptoms and effects, both acute and	delayed No further relevant information available. (Contd. on page 2) GB	

Safety data sheet

according to Regulation (EC) No. 1907/2006

Printing date 27.10.2011

Version number 1

Revision: 27.10.2011

Trade name: Cichoric acid ROTICHROM® HPLC

(Contd. of page 1)

• 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, foam or water spray.
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures 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.

7 Handling and storage

· Handling:

- · Precautions for safe handling Handling corresponding to laboratory safety guidelines.
- · 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: Store in cool, dry conditions in well sealed receptacles.
- 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.
- \cdot 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. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.
- Respiratory protection: Not required.

 $(Contd. \ on \ page \ 3)$



Safety data sheet according to Regulation (EC) No. 1907/2006

Printing date 27.10.2011

Version number 1



Revision: 27.10.2011

Trade name: Cichoric acid ROTICHROM® HPLC

(Contd. of page 2)

· Protection of hands:



Protective gloves

· Material of gloves

Nitrile, thickness: 0,4 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. \cdot **Eye protection:**



Tightly sealed goggles

· Body protection: Protective work clothing

9 Physical and chemical properties

 \cdot Information on basic physical and chemical properties

· General Information	
· Appearance: Form:	Crystalline
Colour:	Colourless
· Odour:	Odourless
 Change in condition Melting point/Melting range Boiling point/Boiling range: 	
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Product is not flammable.
· Danger of explosion:	Product does not present an explosion hazard.
· Density:	Not determined.
 Solubility in / Miscibility with water: Other information 	Slightly soluble. No further relevant information available.

10 Stability and reactivity

- · Reactivity
- · Chemical stability
- · Thermal decomposition / conditions to be avoided: No information available.
- · 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:
- \cdot on the skin: No information available.

(Contd. on page 4)

Safety data sheet according to Regulation (EC) No. 1907/2006 ROTH

Revision: 27.10.2011

Printing date 27.10.2011

Version number 1

Trade name: Cichoric acid ROTICHROM® HPLC

- \cdot on the eye: No information available.
- \cdot after inhalation: No information available.
- \cdot Sensitization: No sensitizing effects known.
- Additional toxicological information: When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.
- Further information: The product should be handled with the care usual when dealing with chemicals.

12 Ecological information

- $\cdot \ Toxicity$
- 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!
- \cdot Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- \cdot Waste treatment methods
- · Recommendation

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.

14 Transport information

ADR, ADN, IMDG, IATA	Void
UN proper shipping name ADR, ADN, IMDG, IATA Transport hazard class(es)	Void
ADR	
Class	Void
Label	void
ADN/R Class:	Void
Packing group	
ADR, IMDG, IATA	Void
Environmental hazards:	
Special precautions for user	Not applicable.
Transport in bulk according to Annex	II of
MARPOL73/78 and the IBC Code	Not applicable.

*

Safety data sheet according to Regulation (EC) No. 1907/2006



Printing date 27.10.2011	Version number 1	Revision: 27.10.2011
Trade name: Cichoric acid ROTIC	CHROM® HPLC	
		(Contd. of page 4)
· Transport/Additional informat	tion:	
· ADR · Remarks: · UN ''Model Regulation'':	Not subject to transport regulations.	
15 Regulatory information		
· Safety, health and environmen	tal regulations/legislation specific for the substance of	or mixture
· National regulations:		
• Waterhazard class: Not subject • Chemical safety assessment: A	to classification. Chemical Safety Assessment has not been carried out.	
16 Other information		
	ur present knowledge. However, this shall not const tablish a legally valid contractual relationship.	itute a guarantee for any specifi
This information is based on o product features and shall not est • Department issuing MSDS: De		itute a guarantee for any specifi
This information is based on o product features and shall not est • Department issuing MSDS: De • Contact: Herr Heine	tablish a legally valid contractual relationship.	itute a guarantee for any specifi
 This information is based on o product features and shall not est Department issuing MSDS: De Contact: Herr Heine Abbreviations and acronyms: ADR: Accord européen sur le transport 	tablish a legally valid contractual relationship.	
 This information is based on o product features and shall not est Department issuing MSDS: Det Contact: Herr Heine Abbreviations and acronyms: ADR: Accord européen sur le transpor Dangerous Goods by Road) RID: Règlement international concerna Transport of Dangerous Goods by Rail) 	tablish a legally valid contractual relationship. partment: Health, Safety and Environment rt des marchandises dangereuses par Route (European Agreement ant le transport des marchandises dangereuses par chemin de fer (concerning the International Carriage of
 This information is based on o product features and shall not est Department issuing MSDS: Det Contact: Herr Heine Abbreviations and acronyms: ADR: Accord européen sur le transpor Dangerous Goods by Road) RID: Règlement international concerna Transport of Dangerous Goods by Rail) IMDG: International Maritime Code for I IATA: International Air Transport Assoc 	tablish a legally valid contractual relationship. partment: Health, Safety and Environment rt des marchandises dangereuses par Route (European Agreement ant le transport des marchandises dangereuses par chemin de fer (Dangerous Goods iation	concerning the International Carriage o
 This information is based on o product features and shall not est Department issuing MSDS: Det Contact: Herr Heine Abbreviations and acronyms: ADR: Accord européen sur le transpor Dangerous Goods by Road) RID: Règlement international concerna Transport of Dangerous Goods by Rail) IMDG: International Maritime Code for I 	tablish a legally valid contractual relationship. partment: Health, Safety and Environment et des marchandises dangereuses par Route (European Agreement ant le transport des marchandises dangereuses par chemin de fer (Dangerous Goods iation nization lassification and Labelling of Chemicals	concerning the International Carriage o