

# Material Safety Data Sheet

Filtration · Testing · Chromatography · Bioanalysis  
Filterieren · Testen · Chromatographie · Bioanalytik

according to EC Directive 1907/2006/EC

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## 1. Identification of the substance/ mixture and company

### 1.1 Identification/product name

VISOCOLOR® HE Chloride CL 500 Reagent Indicator, HNO<sub>3</sub>  
Cat. No./REF 915004

### 1.2 Use of the substance/ mixture

Product for analytical use (RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0)

**1.3 Manufacturer** MACHEREY-NAGEL GmbH & Co. KG  
Neumann-Neander-Strasse 6-8, D-52355 Dueren**Information from** MACHEREY-NAGEL GmbH & Co. KG  
☎ +49 (0)2421 969 0 e-mail: [msds@mn-net.com](mailto:msds@mn-net.com)

### 1.4 Emergency telephone

Call your regional Poisons Information Service or call local Life Saving Service.

## 2. Hazards identification

### 2.1 Hazard description

This is not a hazardous substance/mixture.

According to our current status of knowledge and experience we state, that this product does not contain any substances, which – in accordance with EC regulations 1907/2006/EC, 1999/45/EC, 67/548/EEC and German Regulations for Hazardous goods – have to be declared as dangerous goods, either because of their applied concentration or because of their total amount in anyone kit. An individual package has considerably less hazardous potential.

**Hazard symbols** -

## 3. Composition/Information on ingredients

### Chemical characterisation

Substance(s): No hazardous substances in reportable concentrations, which must be labelled (-)

**CAS No.:** n.n. **EC No.:** n.n.**INDEX No.:** n.n.**R reference:** - **S reference:** -

## 4. First aid measures

### 4.1 First aid instructions

Read information from Material Safety Data Sheet.

#### After contact with skin:

Rinse the affected skin thoroughly with water.

#### After contact with the eyes:

Rinse thoroughly under running water with the eyelid wide open.

### 4.2 Further medical treatment/attention

### 4.3 Specific means of treatment which should always be available at the workplace

## 5. Fire-fighting measures

### 5.1 Suitable extinguishing media

Fire extinguishers appropriate to the fire classification, and, if applicable, a fire blanket must be available in a prominent location in the work area.

### 5.2 Hazards, combustion products/gases

### 5.3 Special protective equipment required

### 5.4 Additional information

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The substance itself is not flammable. Product package burns like paper or plastic. Cool any undamaged containers in water, and remove from the danger zone if possible.

## 6. Accidental release measures

### 6.1 Personal precautions

### 6.2 Methods of cleaning-up

Bind any escaping liquid with universal binder and dispose.

## 7. Handling and storage

### 7.1 Handling

In accordance with the testing instructions, that comes with the product.

### 7.2 Storage

The original product package of MACHEREY-NAGEL allows a safe storage. Keep packages tightly closed during handling and storage (conditions see packing insert or label).

## 8. Exposure controls/ personal protection

### 8.1 Exposure limit values

### 8.2 Exposure controls

<b>Respiratory protection:</b>	not necessary	<b>Hand protection:</b>	not necessary
<b>Eye protection:</b>	not necessary	<b>Skin protection:</b>	not necessary
<b>Personal hygiene:</b>			

## 9. Physical and chemical properties

### 9.1 General information

<b>Appearance:</b>	liquid or solid	<b>Colour:</b>		<b>Odour:</b>	
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### 9.2 Important health, safety and environmental information

<b>pH in aqueous solution:</b>	-
<b>Melting point [°C]:</b>	-
<b>Boiling point [°C]:</b>	-
<b>Relative density:</b> (at 20 °C)	- g/cm <sup>3</sup>
<b>Solubility in water:</b> (at 20 °C)	-

## 10. Stability and reactivity

<b>10.1 Conditions to avoid</b>	not necessary
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<b>10.2 Materials to avoid</b>	not necessary
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### 10.3 Hazardous decomposition products

For safety separation the reagents should be stored in the original package. Decompositions are not observed during the expiration period under recommended conditions (see instruction leaflet).

## 11. Toxicological information

### 11.1 Toxicological effects

### 11.2 Toxicological tests

<b>Corrosive effects:</b>	not observed
<b>Irritant effects:</b>	not observed
<b>Effects after multiple exposition:</b>	not observed
<b>Cancerogen / mutagen effects:</b>	
<b>Other effects:</b>	

<b>LD<sub>50</sub> oral rat</b>	> 2000 mg/kg	<b>LC<sub>50</sub></b>		<b>LD<sub>50</sub></b>	
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## 12. Ecological information

### 12.1 Ecotoxicity

## 13. Disposal considerations

## 14. Transport information

Not necessary

## 15. Regulatory information

### 15.1 Labelling

**Code:** - **Description:** not necessary  
**Constituents which are crucial to the hazard:** non  
**R reference:** - **S reference:** -

### 15.2 International and national regulations

1. European Community Directive 67/548/EEC governing the classification, packaging and labelling of dangerous substances, including Adaptation to Technical Progress (ATP), 2006/121/EC
2. German act governing protection from hazardous substances (Chemicals Act / Chemikaliengesetz- ChemG), revised on May 2008
3. German order governing protection from hazardous substances (Ordinance on Hazardous Substances / Gefahrstoffverordnung - GefStoffV), revised on December 2004, according to Directive 98/24/EC
4. Directive 1998/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work
5. Directive 1999/45/EC concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations
6. Regulation (EC) 1907/2006/EC concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency
7. TRGS 200, German engineering rules governing the classification and labelling of hazardous substances, preparations and products, updated February 2007
8. Announcement 220 (German Committee for Hazardous Substances) Safety Data Sheet, September 2007
9. TRGS 900, German engineering rules governing limits in air at work, updated December 2006
10. SUVA.CH, Limits in air at work 2009, revised on 01.2009
11. TRGS 905, German engineering rules governing carcinogens and mutagens, updated May 2008

### 15.3 Other national regulations

DE: Water hazard class: WGK -

## 16. Other information

### R references

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### S references

### Recommended usage and restriction:

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An individual package of this product or of this test kit has considerably less hazardous potential.

### You find our current versions of MSDS in Internet:

[www.mn-net.com](http://www.mn-net.com) link "Services"

### Bibliographical sources

KÜHN, BIRETT: Merkblätter Gefährliche Arbeitsstoffe  
(Data Sheets of Hazardous Substances)

**Reason for alteration:** REACH Regulation 1907/2006/EC, RIP 3.2

### Further information from

Customer Service Center ☎ +49 (0)2421 969 0 📠 +49 (0)2421 969 199

MACHEREY-NAGEL GmbH & Co. KG provides the information contained herein in good faith being up-to-date of own realizations at that time of 2009-07-08. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the

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