

# Safety Data Sheet

according to Regulations 1907/2006/EC (REACH) and 2015/830/EU

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

### 1.1 Product identifier

REF 914614  
 Product name VISOCOLOR B-case CAL-Refill, 4x100mL

REACH Registration number(s): see SECTION 3.1/3.2 or  
 A registration number for the substance(s) does not exist because the annual tonnage does not require registration or the substance or its use is excluded from registration.

4 x 100 mL CAL stock solution

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

**Relevant identified uses**  
 Product for analytical use.  
 Exposure Scenario Classification according REACH, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0  
 The exposure scenario is integrated into sections 1-16.

**Uses advised against**  
 not described

### 1.3 Details of the supplier of the safety data sheet

**Manufactured by:**  
 MACHEREY-NAGEL GmbH & Co. KG  
 Neumann-Neander-Str. 6-8, 52355 Dueren, GERMANY  
 Tel.: +49 2421 969 0

E-mail: [sds@mn-net.com](mailto:sds@mn-net.com) ([msds@mn-net.com](mailto:msds@mn-net.com))

### 1.4 Emergency telephone number

Information not necessary.

You find our current versions of SDS (22 languages) in Internet: <http://www.mn-net.com/SDS>

## SECTION 2: Hazard identification

### 2.1 Classification of the substance or mixture

**100 mL CAL stock solution**

Signal word Do not need labelling as hazardous  
 -

No hazard class

### 2.2 Label elements

**100 mL CAL stock solution**  
 Do not need labelling as hazardous  
 Signal word: -

### 2.3 Other hazards

**Possible hazards from physicochemical properties**  
 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 1272/2008/EC, 1907/2006/EC 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. ---

**Information pertaining to particular risks to human and possible symptoms**  
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**Information pertaining to particular risks to the environment**  
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## Other hazards

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## SECTION 3: Composition/information on ingredients

### 3.1 Substances or 3.2 Mixtures

#### 100 mL CAL stock solution

Chemical:	<i>calcium acetate</i>	CAS No.:	62-54-4
Classification:	No criteria for classification or naming of chemical not required.		
Formula:	$\text{Ca}(\text{CH}_3\text{COO})_2$		
Pseudonym:	Acetic acid, calcium salt (2:1)		
TSCA Inventory:	listed		
REACH Reg. No.:	01-2119987569-11-xxxx		
EC No.:	200-540-9		
RTECS:	AF75250000	MFCID:	00012448
Concentration:	1 - <10 %		
acc. CLP (GHS):	The criteria for classification are not fulfilled.		

Chemical:	<i>acetic acid</i>	CAS No.:	64-19-7
Classification:	H226, Flam. Liq. 3, H314, Skin Corr. 1B		
Formula:	$\text{C}_2\text{H}_4\text{O}_2$ ; $\text{CH}_3\text{-COOH}$		
TSCA Inventory:	listed		
REACH Reg. No.:	01-2119475328-30-xxxx		
EC No.:	200-580-7		
RTECS:	AF1225000	Indice No.:	607-002-00-6
KE No.:	KE-00013	MFCID:	00036152
Concentration:	1 - <10 %		
acc. CLP (GHS):	The criteria for classification are not fulfilled.		

### 3.3 Remarks

When not listed, mixtures are added with water [CAS No. 7732-18-5] to 100%.

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

Place insured person out of danger zone to fresh air immediately.

#### 4.1.1 After SKIN Contact

Not necessary.

#### 4.1.2 After EYE Contact

Not necessary.

#### 4.1.3 After INHALATION of vapours

Not necessary. ---

#### 4.1.4 After ORAL Intake

Not necessary. ---

### 4.2 Most important symptoms and effects, both acute and delayed

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### 4.3 Indication of any immediate medical attention and special treatment needed

No additionally recommendations. ---

## SECTION 5: Firefighting measures

### 5.1 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. All extinguishers like FOAM, WATER SPRAY, DRY POWDER, CARBON DIOXIDE can be used.

### 5.2 Special hazards arising from the substance or mixture

None.

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**5.3 Advice for firefighters**  
No, for listed product. Product package burns like paper or plastic.

**5.4 Additional information**  
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## SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures**  
Do not breathe vapours. Not necessary.

**6.2 Environmental precautions**  
not necessary

**6.3 Methods and material for containment and cleaning up**  
Clean working area with water. Flush used water into drains.

**6.4 Reference to other sections**  
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## SECTION 7: Handling and storage

**7.1 Precautions for safe handling**  
Handling in accordance with the test instruction, that comes with the product.

**7.2 Conditions for safe storage, including any incompatibilities**  
The original product package of MACHEREY-NAGEL allows a safe storage.  
Storage class (VCI): 8B  
Water hazard class (DE): 1

**7.2.1 Requirements for stock rooms and containers**  
Keep original product packages tightly closed during handling and storage.

**7.3 Specific end use(s)**  
Product for analytical use.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

<b>100 mL CAL stock solution</b>		
Chemical:	<i>calcium acetate</i>	CAS No.: 62-54-4
Chemical:	<i>acetic acid</i>	CAS No.: 64-19-7
DNEL:	[loc, inh] 25 mg/m <sup>3</sup>	
	<small>DNEL = Derived No-Effect Level (for workers)</small>	
PNEC <sub>(fresh water)</sub> :	3.058 mg/L	
	<small>PNEC = Predicted No Effect Concentration</small>	
EU value:	[TWA] 25 / [STEL] 50 mg/m <sup>3</sup>	
TRGS 900 (DE):	10 mL/m <sup>3</sup> / 25 mg/m <sup>3</sup>	
	<small>E/e respirable</small>	
Short-term exposure factor:	2(I), Y	
	<small>skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded</small>	
SUVA(CH) MAK value:	10 ppm / 25 mg/m <sup>3</sup>	
NIOSH:	[TWA] 10 ppm / 25 mg/m <sup>3</sup> ; [STEL] 15 ppm / 37 mg/m <sup>3</sup>	
	<small>[TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period</small>	
OSHA:	[TWA] 10 ppm / 25 mg/m <sup>3</sup>	

**8.2 Exposure controls**  
Not necessary. Good ventilation and extraction system in the room, floor resistant to chemicals with floor drainage and washing facilities.

**8.2.1 Respiratory protection**  
Not necessary.

**8.2.2 Hand protection**  
Not necessary.

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- 8.2.3 **Eye protection**  
Not necessary.
- 8.2.4 **Skin protection**  
Not necessary.
- 8.2.5 **Personal hygiene**  
Information not necessary.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>100 mL CAL stock solution</b>		
Appearance: liquid	Colour: colourless	Odor: acetic
pH:	2-3	
Specific gravity:	1,02 g/cm <sup>3</sup>	
Solubility in water:	0-100 %	

### 9.2 Other information

Data for the other parameters of the mixtures are not available, because no registration and no chemical safety report is required.

#### Relevant Properties of Substance Group

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

None

### 10.2 Chemical stability

No known instability.

### 10.3 Possibility of hazardous reactions

None.

### 10.4 Conditions to avoid

Not known. ---

### 10.5 Incompatible materials

Not known.

### 10.6 Hazardous decomposition products

In the original package all parts/all reagents are safety and separated stored. Decompositions are not observed during the expiration period under recommended conditions.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Following information is valid for pure substances. Quantitative data on the toxicity of this product are not available.

#### 100 mL CAL stock solution

Chemical:	<i>calcium acetate</i>	CAS No.: 62-54-4
TSCA Inventory:	listed	
LD50 <sub>orl rat</sub> :	4280 mg/kg	

Chemical:	<i>acetic acid</i>	CAS No.: 64-19-7
TSCA Inventory:	listed	California Proposition 65 List: not listed
Exposure Routes:	inhalation, skin and/or eye contact	
Target Organs:	Eyes, skin, respiratory system, teeth	
Symptoms:	irritation eyes, skin, nose, throat; eye, skin burns; skin sensitization; dental erosion; black skin, hyperkeratosis; conjunctivitis, lacrimation (di	
Australia NICNAS:	not listed	Canada CEPA 1999: DSL Yes
Japan CSCL/PRTR:	not listed, Japan PDSCL: not listed	
Japan ISHL:	listed ≥1,0%/≥1,0%, Article 57-2 (SDS required)	
South Korea TCCA:	not listed	
Korea Exist.Chem.Inventory:	KE-00013	
LD50 <sub>orl rat</sub> :	3310 mg/kg	

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LC50 <sub>inh rat</sub> :	[4h] 8.5-12,7 mg/L
LD50 <sub>drm rbt</sub> :	1060 mg/kg
LD50 <sub>oral mouse</sub> :	4960 mg/kg

## SECTION 12: Ecological information

### 12.1 Toxicity

Following information is valid for pure substances.

#### 100 mL CAL stock solution

Chemical:	<i>calcium acetate</i>	CAS No.: 62-54-4
Water hazard class (DE):	1	
Storage class (VCI):	12-13	

Chemical:	<i>acetic acid</i>	CAS No.: 64-19-7
PNEC <sub>(fresh water)</sub> :	3.058 mg/L	
PNEC = Predicted No Effect Concentration		
LC50 <sub>fish/96h</sub> :	[4d] 301-1000 mg/L	
EC50 <sub>daphnia/48h</sub> :	301-1000 mg/L	
IC50 <sub>scenedesmus quadricauda/72h</sub> :	301-1000 mg/L	
Water hazard class (DE):	1	WGK No.: 0093
Dispersion coefficient <sub>(octanol-water)</sub> :	-0,17	
Storage class (VCI):	8 B	

### 12.2 Persistence and degradability

not necessary

### 12.3 Bioaccumulative potential

not necessary

### 12.4 Mobility in soil

not necessary

### 12.5 Results of PBT and vPvB assessment

no data available

### 12.6 Other adverse effects

no additional data available

## SECTION 13: Disposal considerations

Not necessary.

### 13.1 Waste treatment methods

GENERAL: Empty solids into municipal waste, empty liquids diluted into drains. Normally it is possible to empty small amounts (diluted!) into drains.

## SECTION 14: Transport information

14.1 - 14.4 Not necessary

### 14.5 Environmental hazards

none

### 14.6 Special precautions for user

not necessary

### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

not applicable

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## SECTION 15: Regulatory information

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

German act governing protection from hazardous substances (Chemicals Act / Chemikaliengesetz- ChemG), revised on August 2013  
 German order governing protection from hazardous substances (Ordinance on Hazardous Substances / Gefahrstoffverordnung - GefStoffV), revised on November 2010, according to Directive 98/24/EC  
 MN Leaflet/User manual, also see [www.mn-net.com](http://www.mn-net.com)  
 Look for your country-specific regulations.

### 15.2 Chemical safety assessment

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## SECTION 16: Other information

### 16.1 List of H and P phrases

#### 16.1.1 List of relevant H phrases

#### 16.1.2 List of relevant P phrases

### 16.2 Training advice

Regular safety training.

### 16.3 Recommended restriction on use

None

### 16.4 Further information

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### 16.5 Sources of key data

Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS

Regulation 487/2013/EU, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress

Regulation 669/2018/EU, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress

TRGS 900, German engineering rules governing limits in air at work, updated 03/2018

SUVA .CH, Limits in air at work 2009, revised on 01.2009

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

#### Revisions/Updates

Reason for Revision: 2016-03 Adaptation of regulation 1221/2015/EU