

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

VISOCOLOR ECO Anionic detergents Page: 1/12

Printing date: 01.10.2019 Date of issue: 12.12.2018

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

#### 1.1 **Product identifier**

REF 931050

Product name VISOCOLOR ECO Anionic detergents

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.

1 x 30 mL AD-1 1 x 30 mL AD-2 1 x 10 mL AD-3 2 x 50 mL AD-4

#### 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.

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 (msds@mn-net.com)

#### 1.4 **Emergency telephone number**

Outside Germany (DE): Call your regional Poisons Information Service or call local Life Saving Service. 99089 Erfurt tel. +49 361 730 730 DE: Gemeinsames Giftinformationszentrum (GGIZ)

You find our current versions of SDS (22 languages) in Internet:

http://www.mn-net.com/SDS

## **SECTION 2: Hazard identification**

#### 2.0 Classification of the complete product







GHS06

GHS07

GHS08

**DANGER** Signal word

Hazard identification	Hazard classes/categories
H302	Acute Tox. 4 oral
H315	Skin Irrit. 2
H319	Eye Irrit. 2
H331	Acute Tox. 3 inh.
H336	STOT SE 3
H351	Carc. 2
H361	Repr. 2
H373	STOT RE 2

#### 2.1 Classification of the substance or mixture

30 mL AD-1

Do not need labelling as hazardous

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DE/international: CH: FR:

Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Tel.: +33 388 68 22 68 Tel.: +1 484 821 0984 Fax: +49 24 21 969-199 Fax: +41 62 388 55 05 Fax: +33 388 51 76 88 +1 484 821 1272 Fax:

Version: M V 4.10.1 E-mail: info@mn-net.com

E-mail: sales-ch@mn-net.com

E-mail: sales-fr@mn-net.com

E-mail: sales-us@mn-net.com

US:



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

REF: 931050 VISOCOLOR ECO Anionic detergents Page: 2/12 Printing date: 01.10.2019 Date of issue: 12.12.2018

Signal word

No hazard class

30 mL AD-2

Do not need labelling as hazardous

Signal word

No hazard class

10 mL AD-3

Do not need labelling as hazardous

Signal word

No hazard class

50 mL AD-4







Signal word **DANGER** 

Hazard identification	Hazard classes/categories
H302	Acute Tox. 4 oral
H315	Skin Irrit. 2
H319	Eye Irrit. 2
H331	Acute Tox. 3 inh.
H336	STOT SE 3
H351	Carc. 2
H361	Repr. 2
H373	STOT RE 2

#### 2.2 Label elements

According CLP directive inner packages must be only labelled with GHS symbol(s) and product identificator(s) (EU 1272/2008 Annex I - 1.5.1.2).

Harmful chemicals/mixtures with signal word: WARNING must not be labelled with H and P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2).

### 30 mL AD-1

Do not need labelling as hazardous Signal word: -

### 30 mL AD-2

Do not need labelling as hazardous Signal word: -

### 10 mL AD-3

Do not need labelling as hazardous Signal word: -

### 50 mL AD-4







GHS06

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DE/international: CH: FR:

Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Tel.: +33 388 68 22 68 Fax: +49 24 21 969-199 Fax: +41 62 388 55 05 Fax: +33 388 51 76 88 Version: M V 4.10.1 E-mail: info@mn-net.com E-mail: sales-ch@mn-net.com

E-mail: sales-fr@mn-net.com

Tel.: +1 484 821 0984 +1 484 821 1272 E-mail: sales-us@mn-net.com

US:



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

REF: 931050 VISOCOLOR ECO Anionic detergents Page: 3/12

Printing date: 01.10.2019 Date of issue: 12.12.2018

Signal word: DANGER

H331, H351, H361

Toxic if inhaled. Suspected of causing cancer. Suspected of damaging fertility or the unborn child.

P201, P261sh, P280sh, P311, P405

Obtain special instructions before use. Avoid breathing dust/vapours. Wear protective gloves/eye protection. Call a POISON CENTER/doctor. Store locked up.

#### 2.3 Other hazards

### Possible hazards from physicochemical properties

In the case of pH values are less than 5 or higher than 9 then it is irritant. ---

### Information pertaining to particular risks to human and possible symptoms

Cause severe after inhalation of vapours, impairments of health or can lead to death even when only ingested in small quantities. Cause after oral intake, impairments of health when ingested in small quantities. Suspected of causing cancer. Suspected of damaging fertility or the unborn child.

### Information pertaining to particular risks to the environment

PBT: not applicable vPvB: not applicable

Other hazards

## **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances or 3.2 Mixtures

### 30 ml AD-1

Chemical: phosphate buffer solution CAS No .: -

Classification: No criteria for classification or naming of chemical not required. K/Na<sub>1-3</sub> H<sub>2-0</sub> PO<sub>4</sub> • x H<sub>2</sub> O Formula:

TSCA Inventory: all listed KF No . listed 1 - < 5 % Concentration:

acc. CLP (GHS): The criteria for classification are not fulfilled.

### 30 mL AD-2

Chemical: methylene blue CAS No.: 61-73-4

Classification: No criteria for classification or naming of chemical not required.

C<sub>16</sub> H<sub>18</sub> CIN<sub>3</sub> S Formula:

Basic Blue 9, phenothiazin-5-ium, 3,7-bis(dimethylamino)-, chloride (1:1) Pseudonym:

TSCA Inventory: listed EC No.: 200-515-2

RTECS: SO5600000 MFCD: 00012111

KE No .: KE-06942 Concentration: < 1,00 %

acc. CLP (GHS): The criteria for classification are not fulfilled.

Chemical: sulfuric acid (diluted < 5 %) CAS No.: 7664-93-9d

Classification: No criteria for classification or naming of chemical not required.

H<sub>2</sub> SO<sub>4</sub> •H<sub>2</sub> O Formula: TSCA Inventory: listed

01-2119458838-20-xxxx REACH Reg. No.:

EC No.: 231-639-5 Indice No.: 016-020-00-8

RTECS: WS5600000 KE No.: KE-32570 Concentration: < 0.10 %

acc. CLP (GHS): The criteria for classification are not fulfilled

10 mL AD-3

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REF: 931050 VISOCOLOR ECO Anionic detergents Page: 4/12

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Chemical: methylene blue CAS No.: 61-73-4

Classification: No criteria for classification or naming of chemical not required.

Formula: C<sub>16</sub> H<sub>18</sub> ClN<sub>3</sub> S

Pseudonym: Basic Blue 9, phenothiazin-5-ium, 3,7-bis(dimethylamino)-, chloride (1:1)

TSCA Inventory: listed

EC No.: 200-515-2 RTECS: SO5600000

RTECS: SO5600000 MFCD: 00012111

KE No.: KE-06942 Concentration: < 1,00 %

acc. CLP (GHS): The criteria for classification are not fulfilled.

Chemical: sulfuric acid (diluted < 5 %) CAS No.: 7664-93-9d

Classification: H315, Skin Irrit. 2, H319, Eye Irrit. 2

Formula:  $H_2 SO_4 \cdot H_2 O$ 

TSCA Inventory: listed REACH Reg. No.: 01-2119458838-20-xxxx

EC No.: 231-639-5 Indice No.: 016-020-00-8

RTECS: WS5600000 KE No.: KE-32570 Concentration: 1 - <5 %

acc. CLP (GHS): The criteria for classification are not fulfilled

50 mL AD-4

Chemical: chloroform CAS No.: 67-66-3

Classification: H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H319, Eye Irrit. 2, H331, Acute Tox. 3 inh., H336, STOT

SE 3, H351, Carc. 2, H361, Repr. 2, H373, STOT RE 2

Formula: CHCl<sub>3</sub>
Pseudonym: trichloromethane

TSCA Inventory: listed

REACH Reg. No.: 01-2119486657-20-xxxx

EC No.: 200-663-8 Indice No.: 602-006-00-4 RTECS: FS9100000 MFCD: 00000826

KE No.: KE-34076, Toxic 97-1-281

Concentration: 95 - <100 %

acc. CLP (GHS): H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H319, Eye Irrit. 2, H331, Acute Tox. 3 inh., H336, STOT

SE 3, H351, Carc. 2, H361, Repr. 2, H373, STOT RE 2

### 3.3 Remarks

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

List of H and P phrases: see section 16.1

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

Place insured person out of danger zone to fresh air immediately. Ensure quiet, warmth, and provide resuscitation if necessary. If necessary contact medical advice. Take to a doctor, in a raised position if there are breathing difficulties.

### 4.1.1 After SKIN Contact

Remove contaminated clothing. Rinse the affected skin or mucous membrane thoroughly under running water. (If possible) use soap.

### 4.1.2 After EYE Contact

After contact with the eyes rinse thoroughly under running water with the eyelid wide open with eye washing bottle, eye douche or running water (protect intact eye).

### 4.1.3 After INHALATION of vapours

After inhalation of foam or vapour fresh air should be inhaled. Keep airways free. Administer a Dexamethasone spray as soon as possible. Ensure quiet, warmth, and provide resuscitation if necessary. In the event of respiratory distress ensure that the patient inhales oxygen. Secure the breathing, heart and circulatory function. ---

### 4.1.4 After ORAL Intake

After oral intake lots of water should be drunk after it has been ingested. ---

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

Carcinogenic Effects: Suspected of causing cancer. Suspected of damaging fertility or the unborn child. ---

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DE/international: CH: FR:

Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Tel.: +33 388 68 22 68 Tel.: +1 484 821 0984 Fax: +49 24 21 969-199 Fax: +41 62 388 55 05 Fax: +33 388 51 76 88 +1 484 821 1272 Fax:

Version: M V 4.10.1 E-mail: info@mn-net.com

E-mail: sales-ch@mn-net.com

E-mail: sales-fr@mn-net.com

E-mail: sales-us@mn-net.com



# Safety Data Sheet

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

REF: 931050 VISOCOLOR ECO Anionic detergents Page: 5/12 Printing date: 01.10.2019 Date of issue: 12.12.2018

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

In the event of RESPIRATORY DISTREES ensure that the patient inhales oxygen. ---

### 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

Formation of hazardous and caustic vapour-air mixtures possible. -

#### 5.3 Advice for firefighters

No, for listed product. Product package burns like paper or plastic.

#### 5.4 Additional information

### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapours. Wear suitable protective gloves (see 8.2.2). Regular staff training is necessary, indicating hazards and precautions on the basis of operating instructions. Restrictions on activity must be observed.

#### 6.2 **Environmental precautions**

not necessary

#### 6.3 Methods and material for containment and cleaning up

Bind any escaping liquid with inert absorbent. And dispose in accordance to local regulations for the disposal of hazardous chemicals. Clean any contaminated equipment and floors with plenty of water.

Collect small amounts of leaked liquid and flush with water into drains. Not for organic solvents (see section 13).

#### 6.4 Reference to other sections

## **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Handling in accordance with the test instruction, that comes with the product. Use only in well-ventilated working areas.

#### 7.2 Conditions for safe storage, including any incompatibilities

The original product package of MACHEREY-NAGEL allows a safe storage. Products containing also toxic substances should be kept locked up.

Storage class (VCI): 8B Water hazard class (DE):

#### Requirements for stock rooms and containers 7.2.1

Keep original product packages tightly closed during handling and storage, and store in a well-ventilated place at max. 25 °C, away or preferably separate from substances with which a hazardous reaction could take place, so that they are not immediately accessible to outside parties. Use inbreakable container for transport of glass bottles.

#### 7.3 Specific end use(s)

Product for analytical use.

### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

30 mL AD-1

Chemical: phosphate buffer solution CAS No .: -

30 mL AD-2

Chemical: methylene blue CAS No.: 61-73-4

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VISOCOLOR ECO Anionic detergents Page: 6/12

Printing date: 01.10.2019 Date of issue: 12.12.2018

> Chemical: sulfuric acid CAS No.: 7664-93-9d

50 µg/m³
DNEL = Derived No-Effect Level (for workers) DNEL:

PNEC (fresh water): 2.5 µg/L PNEC = Predicted No Effected Concentration TRGS 900 (DE): 0.1 E mg/m<sup>3</sup>

Short-term exposure factor:

skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value:

NIOSH: NTP Report on Carcinogens (RoC) List Yes (Known to be a human carcinogen); TWA 1 mg/m<sup>3</sup>

[TWA] Time-weighted ave age to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute per

OSHA: [TWA] 1 mg/m<sup>3</sup>

10 mL AD-3

CAS No.: 61-73-4 Chemical: methylene blue

Chemical sulfuric acid CAS No.: 7664-93-9d

50 µg/m³
DNEL = Derived No-Effect Level (for workers) DNEL: PNEC (fresh water): 2.5 µg/L PNEC = Predicted No Effected Concentration

TRGS 900 (DE): 0.1 E mg/m3 E/e respirable

Short-term exposure factor: 1 (I)

skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value:

NTP Report on Carcinogens (RoC) List Yes (Known to be a human carcinogen); TWA 1 mg/m³ NIOSH

[TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA: [TWA] 1 mg/m<sup>3</sup>

50 mL AD-4

CAS No.: 67-66-3 Chemical: chloroform

DNEL: [derm] 0.94 mg/kg bw/day; [inh] 2.5 mg/m<sup>3</sup>

DNEL = Derived No-Effect Level (for workers)

PNEC<sub>(fresh water)</sub>: 0.146 mg/L PNEC = Predicted No Effected Concentration 0.5 ppm / 2.5 mg/m<sup>3</sup> FU value:

0,5 mL/m<sup>3</sup> / 2,5 mg/m<sup>3</sup> TRGS 900 (DE): E/e respirable

Short-term exposure factor: 2 (II), H, X, Y

skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

0,5 ppm / 2,5 mg/m<sup>3</sup> SUVA(CH) MAK value:

NIOSH

l: Ca ST 2 ppm / 9.78<sub>60 min</sub> mg/m³ [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA: 50 ppm / 240 mg/m<sup>3</sup>

#### 8.2 **Exposure controls**

Good ventilation and extraction system in the room, floor resistant to chemicals with floor drainage and washing facilities. The highest level of cleanliness must be maintained at the workplace.

#### 8.2.1 Respiratory protection

Use for open access of these substances for example a protection filter, class A/AX. No additional recommendations.

### 8.2.2

Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC, natural latex, Neopren, or Nitril, for chlorinated carbons consist of viton (f.ex. from Ansell or KCL). Use for short times chemical resistant latex gloves with code EN 374-3 level 1.

#### 8.2.3 Eye protection

Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection.

#### 8.2.4 Skin protection

Recommended to avoid contamination with these hazards.

#### 8.2.5 Personal hygiene

Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and clothing. Rinse any clothing on which the substance has been spilled, and soak it in water. Wash hands thoroughly with soap and water when stopping work and before eating, and then apply protective skin cream.

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

VISOCOLOR ECO Anionic detergents Page: 7/12

Odor: odorless

Odor: odorless

Odor: odorless

Odor: like chloroform

Printing date: 01.10.2019 Date of issue: 12.12.2018

## **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

30 mL AD-1

Appearance: liquid Colour: colourless

pH: 10.5

Solubility in water: 0-100 %

30 mL AD-2

Appearance: liquid Colour: blue

pH: 1-2 Specific gravity: 1,0 g/cm<sup>3</sup> Solubility in water: 0-100 %

10 mL AD-3

Appearance: liquid Colour: blue

0-1 pH: Specific gravity: 1,01 g/cm<sup>3</sup> Solubility in water: 0-100 %

50 mL AD-4

Appearance: liquid Colour: colourless 50-200 mg/m<sup>3</sup>

Odor limit: -63.5 °C Melting point: 61.7 °C Boiling point: Vapour pressure (20°C): 211 hPa Vapour density(air=1): 4,12 Specific gravity: 1,48 g/cm<sup>3</sup> Solubility in water: < 1 % Flashing temperature: 982 °C Volatiles by volume: 1035 g/m<sup>3</sup>

#### 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** 

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

no further data available.

#### 10.2 Chemical stability

No known instability

#### 10.3 Possibility of hazardous reactions

No further data available

#### 10.4 Conditions to avoid

Not necessary. ---

#### 10.5 Incompatible materials

Avoid contact with strong acids or alkalines.

#### 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.

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# Safety Data Sheet

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

VISOCOLOR ECO Anionic detergents Page: 8/12

Printing date: 01.10.2019 Date of issue: 12.12.2018

## **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.

30 mL AD-1

Chemical: phosphate buffer solution CAS No .: -

TSCA Inventory all listed Korea Exist.Chem.Inventory: listed

30 mL AD-2

Chemical: methylene blue CAS No.: 61-73-4

TSCA Inventory: listed Korea Exist.Chem.Inventory: KE-06942 LD50<sub>orl rat</sub>: 1180 ma/ka

Chemical: sulfuric acid CAS No.: 7664-93-9d

TSCA Inventory: listed California Proposition 65 List: not listed

ACGIH: 1 ppm

Exposure Routes: inhalation, ingestion, skin and/or eye contact

Target Organs: Eyes, skin, respiratory system, teeth

Symptoms: irritation eyes, skin, nose

Australia NICNAS: not listed Canada CEPA 1999: DSL Yes

Japan CSCL/PRTR: not listed, Japan PDSCL: Deleterious Substance Japan ISHL: listed ≥1,0%/≥1,0%, Article 57-2 (SDS required)

South Korea TCCA: Accident Precaution Chemical Yes

Korea Exist.Chem.Inventory: KE-32570

LD50<sub>orl rat</sub>: 2140 mg/kg

[8h] 600/ [4h] 850 mg/m<sup>3</sup> LC50ihl rat:

TRGS 905 (DE):

10 mL AD-3

Chemical: methylene blue CAS No.: 61-73-4

TSCA Inventory: listed Korea Exist.Chem.Inventory: KE-06942 LD50<sub>orl rat</sub>: 1180 mg/kg

Chemical: sulfuric acid CAS No.: 7664-93-9d

TSCA Inventory: California Proposition 65 List: not listed listed

ACGIH: 1 ppm

Exposure Routes: inhalation, ingestion, skin and/or eye contact **Target Organs:** Eyes, skin, respiratory system, teeth

Symptoms: irritation eyes, skin, nose

Australia NICNAS: not listed Canada CEPA 1999: DSL Yes

Japan CSCL/PRTR: not listed, Japan PDSCL: Deleterious Substance Japan ISHL: listed ≥1,0%/≥1,0%, Article 57-2 (SDS required)

South Korea TCCA: Accident Precaution Chemical Yes

Korea Exist.Chem.Inventory: KE-32570 LD50<sub>orl rat</sub>:

2140 mg/kg [8h] 600/ [4h] 850 mg/m<sup>3</sup> LC50<sub>ihl rat</sub>:

TRGS 905 (DE): R<sub>F</sub> C

50 mL AD-4

Chemical: chloroform CAS No.: 67-66-3 TSCA Inventory: California Proposition 65 List: listed: cancer, developmental listed

ACGIH: 10 ppm

**Exposure Routes:** inhalation, skin absorption, ingestion, skin and/or eye contact Target Organs: Liver, kidneys, heart, eyes, skin, central nervous system

Symptoms: irritation eyes, skin; dizziness, mental dullness, nausea, confusion; headache, lassitude (weakness,

exhaustion); anesthesia; enlarged liver; [potent

Australia NÍCNAS: Canada CEPA 1999: DSL yes not listed

PCA Yes, PRTR: ≥1,0% class I, Japan PDSCL: Deleterious Substance Japan CSCL/PRTR:

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DE/international: CH: FR: US:

Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Tel.: +33 388 68 22 68 Tel.: +1 484 821 0984 Fax: +49 24 21 969-199 Fax: +41 62 388 55 05 Fax: +33 388 51 76 88 Fax: +1 484 821 1272 E-mail: sales-ch@mn-net.com E-mail: sales-fr@mn-net.com

Version: M V 4.10.1 E-mail: info@mn-net.com

E-mail: sales-us@mn-net.com



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

REF: 931050 VISOCOLOR ECO Anionic detergents Page: 9/12

Printing date: 01.10.2019 Date of issue: 12.12.2018

> Japan ISHL: listed ≥1,0%/≥0,1%, Article 57-1+2 (Labelling&SDS required)

South Korea TCCA: not listed

Korea Exist.Chem.Inventory: KE-34076, Toxic 97-1-281

908 mg/kg LD50<sub>orl rat</sub>: LC\_LoWihl hmn: LC\_LoWorl hum/rbt: 25000 mg/m<sup>3</sup> 140/500 mg/m<sup>3</sup> LC50<sub>ihl rat</sub>: 47.7<sub>4h</sub> g/m<sup>3</sup> LD50<sub>drm rat</sub>: >15800 mg/kg LD50<sub>drm rbt</sub>: > 20 g/kg

Acute Effects: Cause severe after inhalation of vapours, impairments of health or can lead to death even when only ingested in small quantities. Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities.

Chronic Effects: May cause damage to organs through prolonged or repeated exposure.

Carcinogenic Effects: Suspected of causing cancer. Suspected of damaging fertility or the unborn child.

carc. 2, repr. 2 TRGS 905 (DE): K2, M3, RE 3

## **SECTION 12: Ecological information**

#### 12.1 **Toxicity**

Following information is valid for pure substances.

30 mL AD-1

Chemical: phosphate buffer solution CAS No .: -

Water hazard class (DE): Storage class (VCI): 12

30 mL AD-2

Chemical: methylene blue CAS No.: 61-73-4

Water hazard class (DE): Storage class (VCI): 12

Chemical: sulfuric acid CAS No.: 7664-93-9d

PNEC (fresh water):
PNEC = Predicted No Effected Concentration 2.5 µg/L

[NOEC, 65d] 25 µg/L LC50<sub>fish/96h</sub>: EC50daphnia/48h: 100 mg/L EC10pseudomonas putita/16h : Water hazard class (DE): [72h] 100 mg/L

WGK No.: 0182

Storage class (VCI): 8 B

10 mL AD-3

Chemical: methylene blue CAS No.: 61-73-4

Water hazard class (DE): Storage class (VCI): 12

CAS No.: 7664-93-9d Chemical: sulfuric acid

PNEC<sub>(fresh water)</sub>: PNEC = Predicted No Effected Concentration  $2.5 \mu g/L$ 

LC50fish/96h: [NOEC, 65d] 25 µg/L 100 mg/L EC50<sub>daphnia/48h</sub>: [72h] 100 mg/L EC10<sub>pseudomonas putita/16h</sub>

Water hazard class (DE): WGK No.: 0182

Storage class (VCI):

50 mL AD-4

Chemical: chloroform CAS No.: 67-66-3

PNEC<sub>(fresh water)</sub>:
PNEC = Predicted No Effected Concentration 0.146 mg/L

 $LC50_{fish/96h}$ : 18 mg/L EC50<sub>daphnia/48h</sub>: 6.3<sub>21d</sub> NOEC mg/L Water hazard class (DE): 3 WGK No.: 0054

Dispersion coefficient<sub>(octanol-water)</sub>: 1.97 Storage class (VCI): 12

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DE/international: CH: FR: US:



# **Safety Data Sheet**

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

REF: 931050 VISOCOLOR ECO Anionic detergents Page: 10/12
Printing date: 01.10.2019 Date of issue: 12.12.2018

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**

Please observe local regulations for collection and disposal of hazardous waste and contact waste disposal company, where you will obtain information on laboratory waste disposal (waste code number 16 05 06). Or collect in solvent waste (waste code number 07 07 04). Close container tightly.

### 13.1 Waste treatment methods

Normally it is possible to empty small amounts (diluted!) into drains. Dispose of contents/container to regulated waste treatment.

### **SECTION 14: Transport information**

14.1. UN number: 3316 14.2. UN proper shipping name: Chemical Kit

14.3. Class: 9 14.4. Packing group:

Road transport

Classification code: M11 Tunnel restriction code: E

Limited Quantity: acc. ADR 3.3.1/251: see LQ in Alternative declaration for transportation

Air transport

PAX: 960 max. weight PAX: 10 KG CAO: 960 max. weight CAO: 10 KG Maritime transport EmS: F-A, S-P Storage category: A

### Or use Alternative declaration for transportation:

14.1 UN number: 1888 14.2 UN proper shipping name: Chloroform

14.3 Class: 6.1 14.4 Packing group: III

Road transport
Classification code: T1

Limited Quantity: 5 L Tunnel restriction code: E

Excepted Quantity: E 1

Air transport

PAX: 680 max. weight PAX: 60 L CAO: 680 max. weight CAO: 220 L

Maritime transport

EmS: F-A, S-A Storage category: A

## 14.5 Environmental hazards

none, contains only small quantities of hazardous substances

## 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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US:

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DE/international: CH: FR:



# Safety Data Sheet

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

VISOCOLOR ECO Anionic detergents REF: 931050 Page: 11/12

Printing date: 01.10.2019 Date of issue: 12.12.2018

## **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

TRGS 200, German engineering rules governing the classification and labelling of hazardous substances, preparations and products, updated October 2011

MN Leaflet/User manual, also see www.mn-net.com

Look for your country-specific regulations.

#### 15.2 Chemical safety assessment

not necessary for these small amounts ---

### SECTION 16: Other information

#### 16.1 List of H and P phrases

# 16.1.1

List of relevant H phrases H302 Harmful if swallowed. H315 Causes skin irritation. Causes serious eye irritation. H319

H331 Toxic if inhaled.

May cause drowsiness or dizziness. H336 H351 Suspected of causing cancer.

H361 Suspected of damaging fertility or the unborn child.

May cause damage to organs through prolonged or repeated exposure. H373

#### 16.1.2 List of relevant P phrases

Obtain special instructions before use. P201

P260D Do not breathe vapours. P260sh Do not breathe dust/vapours. P261sh Avoid breathing dust/vapours.

P264W Wash with water thoroughly after handling. P280sh Wear protective gloves/eye protection.

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P301+312 P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P311 Call a POISON CENTER/doctor.

P330 Rinse mouth.

P403+233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

#### 16.2 Training advice

Multiple safety training of staffs about danger and protection by using hazards in working area. Additionally training and introduction of staffs for using these products.

#### 16.3 Recommended restriction on use

Only for professional user.

Look about employee restrictions for young people (f. ex. 94/33/EC or DE § 22 JArbSchG)!

Look about employee restrictions for pregnant women and nursing women (f.ex. 92/85/EEC or for DE §§ 11-13 MuSchG 2017)! An individual package of this product or test kit has a moderate hazardous potential.

#### 16.4 Further information

MACHEREY-NAGEL GmbH & Co. KG provides the information contained herein in good faith being up-to-date of own realizations at revision time. 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 information must exercise their independent judgement in determining its appropriateness for a particular purpose.

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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, 4th adaptation of CLP regulation to technical and scientific progress

Regulation 669/2018/EU, 4th 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

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work

TRGS 905, German engineering rules governing carcinogens and mutagens, updated 03/18

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

Revisions/Updates

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

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