

Safety Data Sheet

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

REF: 931006

VISOCOLOR ECO Aluminium

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Printing date: 01.10.2019

Date of issue: 25.07.2018

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

1.1 Product identifier

REF 931006
Product name VISOCOLOR ECO Aluminium

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 2 g Al-1
1 x 12 mL Al-2
1 x 28 mL Al-3

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 (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

2.0 Classification of the complete product

2.1 Classification of the substance or mixture

2 g Al-1

Signal word Do not need labelling as hazardous
-

No hazard class

12 mL Al-2

Signal word Do not need labelling as hazardous
-

No hazard class

28 mL Al-3

Signal word Do not need labelling as hazardous
-

No hazard class

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2.2 Label elements

2 g AI-1

Do not need labelling as hazardous
Signal word: -

12 mL AI-2

Do not need labelling as hazardous
Signal word: -

28 mL AI-3

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. The property H314 "Causes severe skin burns and eye damage." of some salts is not applicable, because the mixture is buffered to pH >3-4 (see GHS Directive 1272/2008/EC Annex I, chapter 3.2.3.1.2.). ---

Information pertaining to particular risks to human and possible symptoms

Information pertaining to particular risks to the environment

Other hazards

SECTION 3: Composition/information on ingredients

3.1 Substances or 3.2 Mixtures

2 g AI-1

Chemical:	<i>L(+)-ascorbic acid</i>	CAS No.:	50-81-7
Classification:	No criteria for classification or naming of chemical not required.		
Formula:	C ₆ H ₈ O ₆		
Pseudonym:	vitamin C		
TSCA Inventory:	listed		
REACH Reg. No.:	exempt, Annex IV		
EC No.:	200-066-2		
RTECS:	CI7650000	MFCD:	00064328
KE No.:	KE-01947		
Concentration:	90 - <100 %		
acc. CLP (GHS):	The criteria for classification are not fulfilled.		

12 mL AI-2

Chemical:	<i>chromoazurol S (Mordant Blue 29)</i>	CAS No.:	1667-99-8
Classification:	No criteria for classification or naming of chemical not required.		
Formula:	C ₂₃ H ₁₃ Cl ₂ Na ₃ O ₉ S		
Pseudonym:	Benzoic acid, 5-[(3-carboxy-5-methyl-4-oxo-2,5-cyclohexadien-1-ylidene)(2,6-dichloro-3-sulfophenyl)methyl]-2-hydroxy-3-methyl-, trisodium salt		
TSCA Inventory:	listed		
EC No.:	216-787-0	MFCD:	00001615
Concentration:	< 1,00 %		
acc. CLP (GHS):	The criteria for classification are not fulfilled.		

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Chemical:	<i>hydrochloric acid</i>	CAS No.:	7647-01-0
Classification:	H290, Met. Corr. 1, H314, Skin Corr. 1B, H331, Acute Tox. 3 inh.		
Formula:	HCl•H ₂ O		
Pseudonym:	aqueous hydrogen chloride		
TSCA Inventory:	listed		
REACH Reg. No.:	01-2119484862-27-xxxx	Indice No.:	017-002-01-X
EC No.:	231-595-7		
RTECS:	MW4025000		
KE No.:	KE-20189, >10% Toxic 97-1-203, Acc. Precaution Chem.		
Concentration:	0,1 - <1 %		
acc. CLP (GHS):	The criteria for classification are not fulfilled.		

28 mL Al-3

Chemical:	<i>ammonium acetate</i>	CAS No.:	631-61-8
Classification:	No criteria for classification or naming of chemical not required.		
Formula:	C ₂ H ₇ NO ₂		
TSCA Inventory:	listed		
REACH Reg. No.:	01-2119828440-45-xxxx	MFCID:	00013066
EC No.:	211-162-9		
RTECS:	AF3675000		
KE No.:	KE-01629		
Concentration:	40 - <60 %		
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%.

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

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.

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

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): 2

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

2 g AI-1

Chemical: *L(+)-ascorbic acid*

CAS No.: 50-81-7

12 mL AI-2

Chemical: *chromoazurol S (Mordant Blue 29)*

CAS No.: 1667-99-8

Chemical: *hydrochloric acid*

CAS No.: 7647-01-0

DNEL: [inh] 8 mg/m³
DNEL = Derived No-Effect Level (for workers)

PNEC_(fresh water): 36 µg/L
PNEC = Predicted No Effect Concentration

EU value: [TWA] 5 ppm / 8 mg/m³; [STEL] 10 ppm/ 15 mg/m³

TRGS 900 (DE): 2 mL/m³ / 3 mg/m³
 E/e respirable

Short-term exposure factor: 2 (I), Y
skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value: 2 ppm / 3* mg/m³

NIOSH: [C] 5 ppm / 7 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: List of highly hazardous chemicals, toxics and reactives Yes (TQ = 5000 lbs) n/a; TWA 5 ppm / 7 mg/m³

28 mL AI-3

Chemical: *ammonium acetate*

CAS No.: 631-61-8

NIOSH: not listed

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

OSHA: not listed

8.2 Exposure controls

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

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- 8.2.1 **Respiratory protection**
Not necessary.
- 8.2.2 **Hand protection**
Not necessary.
- 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

2 g Al-1

Appearance: powder (solid)	Colour: colourless	Odor: odorless
pH:	6	
Melting point:	191 instable °C	
Specific gravity:	1,65 sol. g/cm ³	
Solubility in water:	0-25 %	
Flashing temperature:	380 °C	

12 mL Al-2

Appearance: liquid	Colour: red	Odor: odorless
pH:	1-2	
Specific gravity:	1,0 g/cm ³	

28 mL Al-3

Appearance: liquid	Colour: colourless	Odor: acetic
pH:	4-5	

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

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.

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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.

2 g AI-1

Chemical:	<i>L(+)-ascorbic acid</i>	CAS No.: 50-81-7
TSCA Inventory:	listed	
Korea Exist.Chem.Inventory:	KE-01947	
LD50 _{orl rat} :	11900 mg/kg	
LD50 _{ivn mus} :	518 mg/kg	

12 mL AI-2

Chemical:	<i>chromoazurol S (Mordant Blue 29)</i>	CAS No.: 1667-99-8
TSCA Inventory:	listed	

Chemical:	<i>hydrochloric acid</i>	CAS No.: 7647-01-0
TSCA Inventory:	listed	California Proposition 65 List: not listed
Exposure Routes:	inhalation, ingestion (solution), skin and/or eye contact	
Target Organs:	Eyes, skin, respiratory system	
Symptoms:	irritation nose, throat, larynx; cough, choking; dermatitis; solution: eye, skin burns; liquid: frostbite; in animals: laryngeal spasm; pulmonary ede	
Australia NICNAS:	not listed	Canada CEPA 1999: DSL Yes
Japan CSCL/PRTR:	not listed, Japan PDSC: Deleterious Substance	
Japan ISHL:	listed ≥0,2%/≥0,1%, Article 57-2 (SDS required)	
South Korea TCCA:	Accident Precaution Chemical Yes	
Korea Exist.Chem.Inventory:	KE-20189, >10% Toxic 97-1-203, Acc. Precaution Chem.	
LD50 _{orl rat} :	900 mg/kg	
LC50 _{drm rbt} :	>5010 mg/kg	

28 mL AI-3

Chemical:	<i>ammonium acetate</i>	CAS No.: 631-61-8
TSCA Inventory:	listed	California Proposition 65 List: not listed
Australia NICNAS:	not listed	Canada CEPA 1999: DSL Yes
Japan CSCL/PRTR:	not listed, Japan PDSC: not listed	
Japan ISHL:	not listed	
South Korea TCCA:	not listed	
Korea Exist.Chem.Inventory:	KE-01629	
LD50 _{orl rat} :	632 mg/kg	

SECTION 12: Ecological information

12.1 Toxicity

Following information is valid for pure substances.

2 g AI-1

Chemical:	<i>L(+)-ascorbic acid</i>	CAS No.: 50-81-7
Water hazard class (DE):	1	WGK No.: 0737
Storage class (VCI):	13	

12 mL AI-2

Chemical:	<i>chromoazurol S (Mordant Blue 29)</i>	CAS No.: 1667-99-8
Water hazard class (DE):	2	

Chemical:	<i>hydrochloric acid</i>	CAS No.: 7647-01-0
PNEC _(fresh water) :	36 µg/L	
PNEC = Predicted No Effect Concentration		
LC50 _{fish/96h} :	24.6 mg/L	
EC50 _{daphnia/48h} :	0.492 mg/L	
EC50 _{pseudokirchneriella subcapitata/72h} :	0.78 mg/L	
Water hazard class (DE):	1	WGK No.: 0238
Storage class (VCI):	8 B	

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28 mL Al-3

Chemical: *ammonium acetate*
 Bio Toxicity: 1/4.5/4.8
 LC50_{fish/96h}: 238 mg/L
 Water hazard class (DE): 1 WGK No.: n.n.
 Storage class (VCI): 12-13

CAS No.: 631-61-8

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

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
 Look for your country-specific regulations.

15.2 Chemical safety assessment

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

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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, 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

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

Revisions/Updates

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