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

1.1 Product identifier

REF 931206
Product name VISOCOLOR ECO Aluminium, refill pack

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
Valencienner Str. 11, 52355 Düren, 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

Do not need labelling as hazardous
Signal word -

No hazard class

12 mL Al-2

Do not need labelling as hazardous
Signal word -

No hazard class

28 mL Al-3

Do not need labelling as hazardous
Signal word -

No hazard class

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2.2 Label elements

2 g Al-1

Do not need labelling as hazardous
Signal word: -

12 mL Al-2

Do not need labelling as hazardous
Signal word: -

28 mL Al-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 Al-1

Chemical: *L(+)-ascorbic acid* 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 Al-2

Chemical: *chromoazurol S (Mordant Blue 29)* 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: < 0.10 %
acc. CLP (GHS): The criteria for classification are not fulfilled.

28 mL Al-3

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Chemical:	*ammonium acetate*		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		
EC No.:	211-162-9		
RTECS:	AF3675000	MFCD:	00013066
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

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): 12
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 Al-1
Chemical: *L(+)-ascorbic acid* CAS No.: 50-81-7

12 mL Al-2
Chemical: *chromoazurol S (Mordant Blue 29)* CAS No.: 1667-99-8

28 mL Al-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.

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/cm³	
Solubility in water:	0-25 %	
Flashing temperature:	380 °C	

12 mL Al-2

Appearance: liquid	Colour: red	Odor: odorless

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pH: 1-2
Specific gravity: 1,0 g/cm³

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.

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 Al-1

Chemical: *L(+)-ascorbic acid* 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 Al-2

Chemical: *chromoazurol S (Mordant Blue 29)* CAS No.: 1667-99-8
TSCA Inventory: listed

28 mL Al-3

Chemical: *ammonium acetate* 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 PDSCL: not listed
Japan ISHL: not listed
South Korea TCCA: not listed
Korea Exist.Chem.Inventory: KE-01629
$LD50_{orl\ rat}$: 632 mg/kg

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SECTION 12: Ecological information

12.1 Toxicity

Following information is valid for pure substances.

2 g Al-1
Chemical: *L(+)-ascorbic acid* CAS No.: 50-81-7
Water hazard class (DE): 1 WGK No.: 0737
Storage class (VCI): 13

12 mL Al-2
Chemical: *chromoazurol S (Mordant Blue 29)* CAS No.: 1667-99-8
Water hazard class (DE): 2

28 mL Al-3
Chemical: *ammonium acetate* CAS No.: 631-61-8
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

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.

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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

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
Regulation 1480/2018/EU, 4th adaptation of CLP regulation to technical and scientific progress
Regulation 849/2021/EU, 4th adaptation of CLP regulation to technical and scientific progress
TRGS 900, German engineering rules governing limits in air at work, updated 03/2019
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

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