

Safety Data Sheet

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

REF: 920006 VISOCOLOR HE Ammonium Page: 1/12 Date of issue: 16.03.2022 Printing date: 22.11.2022 Version: 2.2.2.2

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

1.1 **Product identifier**

REF 920006

no data available VISOCOLOR HE Ammonium 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 16 g NH₄-2 UFI: TWTT-G3J6-520X-JQXV 2 x 30 mL NH 4-1 UFI: CHST-D3GU-9201-Y8MU

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

Phone: +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 mbH + CO KG
DE: Gemeinsames Giftinformationszentrum (GGIZ)
99089 Erfurt tel. +49 361 730 730. <a href="https://www.content.com/htms://www.content.com Schoemperlenstr. 3-5 <a href="http://www.mn-net.com/sps="http://www.m

You find our current versions of SDS in Internet:

sicherheit@carlroth.de

SECTION 2: Hazard identification

2.0 Classification of the complete product according to Regulation (EC) 1272/2008







GHS05

DANGER Signal word

Hazard identification	Hazard classes/categories
H290	Met. Corr. 1
H314	Skin Corr. 1B
H319	Eye Irrit. 2
H361	Repr. 2
H361f	Renr 2

2.1 Classification of the substance or mixture according to Regulation (EC) 1272/2008

30 mL NH 4 -1





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Safety Data Sheet

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 REF: 920006
 VISOCOLOR HE Ammonium
 Page: 2/12

 Printing date: 22.11.2022
 Date of issue: 16.03.2022
 Version: 2.2.2.2

Signal word DANGER

Hazard identificationHazard classes/categoriesH290Met. Corr. 1H314Skin Corr. 1B

16 g NH 4 -2





GHS07

0110

Signal word WARNING

Hazard identification Hazard classes/categories
H319 Eye Irrit. 2
H361 Repr. 2
H361f Repr. 2

List of H phrases: see section 16.2

2.2 Label elements according regulation (EC) 1272/2008

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). Metal corrosive solutions **do not have to** be labelled with GHS symbol, signal word, H and P phrases **until 125 mL** (EU 1272/2008 Annex I - 1.5.2.1.3).

30 mL NH ₄ -1



GHS05

Signal word: DANGER

H314

Causes severe skin burns and eye damage.

P260sh, P280sh, P303+361+353, P305+351+338, P310

Do not breathe dust/vapours. Wear protective gloves/eye protection. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

16 g NH ₄ -2





GHS07

GHS08

Signal word: WARNING

H361f

Suspected of damaging fertility.

P201, P280sh

Obtain special instructions before use. Wear protective gloves/eye protection.

Label elements of the complete product





GHS05 GHS08



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Safety Data Sheet

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

 REF: 920006
 VISOCOLOR HE Ammonium
 Page: 3/12

 Printing date: 22.11.2022
 Date of issue: 16.03.2022
 Version: 2.2.2.2

Signal word: DANGER

H314, H361f

Causes severe skin burns and eye damage. Suspected of damaging fertility.

P201, P260sh, P280sh, P303+361+353, P305+351+338, P310

Obtain special instructions before use.Do not breathe dust/vapours.Wear protective gloves/eye protection.IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.Immediately call a POISON CENTER/doctor.

2.3 Other hazards

Possible hazards from physicochemical properties

Generally in the case of pH values are less than 2 or higher than 11.5 then it is corrosive. H290 "May be corrosive to metals." has only relevance for higher concentrations and larger amounts. The labelling GHS05 would be creating an "OVERLABELLING" (see GHS Directive 1272/2008/EC Annex I, chapter 1.5.2.1.3., until 125 mL no labelling necessary).

Information pertaining to particular risks to human and possible symptoms

Causes varying degrees of acid burns on the skin, to the eyes and to the mucous membranes and wounds which do not heal quickly depending on the concentration, temperature and the exposure time. Vapours especially which steam from hot liquids and mist can have a severe irritant effect upon the eyes and the respiratory organs.

Suspected of damaging fertility.

Information pertaining to particular risks to the environment

Avoid contact of substance/mixture to environment.

PBT: not applicable
vPvB: not applicable

Possible endocrine disrupting effects

no data available

SECTION 3: Composition / information on ingredients

3.1 Substances or 3.2 Mixtures

30 mL NH ₄ -1

Substance name: sodium hydroxide solution

CAS No.: 1310-73-2

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

Formula: NaOH•H 2 O Pseudonym (de): Natronlauge

REACH Reg. No.: 01-2119457892-27-xxxx

EC No.: 215-185-5 Indice No.: 011-002-00-6

Concentration: 2 - <5 %

acc. CLP (GHS): H290, Met. Corr. 1, H314, Skin Corr. 1B

Substance name: *tri-sodium citrate* CAS No.: *tri-sodium citrate* 6132-04-3

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

Formula: C ₆ H ₅ Na ₃ O ₇ •2H ₂ O Pseudonym (de): Na-citrat, E331 REACH Reg. No.: 01-2119457027-40-xxxx

EC No.: 200-675-3 Concentration: 10 - <20 %

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

16 g NH 4 -2

Substance name: sodium nitroprusside

CAS No.: 13755-38-9

Substance rating: H301, Acute Tox. 3 oral Formula: Na $_2$ [Fe(CN) $_5$ NO] $_2$ •2 H $_2$ O Natriumpentacyanonitrosylferrat(II)

EC No.: 238-373-9 Concentration: 0,1 - <1 %

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



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Safety Data Sheet

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

 REF: 920006
 VISOCOLOR HE Ammonium
 Page: 4/12

 Printing date: 22.11.2022
 Date of issue: 16.03.2022
 Version: 2.2.2.2

Substance name: sodium salicvlate

CAS No.: 54-21-7

Substance rating: H302, Acute Tox. 4 oral, H319, Eye Irrit. 2, H361, Repr. 2, H361d, Repr. 2

Formula: C₇H₅NaO₃

REACH Reg. No.: 01-2119918289-28-xxxx

EC No.: 200-198-0 Concentration: 10 - <35 %

acc. CLP (GHS): H319, Eye Irrit. 2, H361, Repr. 2, H361f, Repr. 2

Substance name: sodium chloride CAS No.: sodium chloride

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

Formula: NaCl
Pseudonym (de): Kochsalz
REACH Reg. No.: exempt, Annex V
EC No.: 231-598-3
Concentration: 50 - <80 %

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%.List of H and P phrases: see section 16.2.

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. Remove contaminated clothing. Show product package, packing insert and this material safety data sheet to the doctor.

4.1.1 After SKIN Contact

Remove contaminated clothing immediately. Rinse the affected skin or mucous membrane thoroughly for min. 15 minutes under running water. (If possible) use soap. Avoid neutralisation. Then apply a loose bandage.

4.1.2 After EYE Contact

After contact with the eyes rinse thoroughly under running water with the eyelid wide open for min. 10 minutes with eye washing bottle, eye douche or running water (protect intact eye). Before (if possible) apply eye drops Proxymetacaine 0.5%, if the opening the eyelid convulsion is painful. Further treatment to be carried out by an eye specialist.

4.1.3 After INHALATION of vapours

After inhalation of foam or vapour fresh air should be inhaled. Keep airways free. If vomiting and if insensible place patient in recovery position and keep airways free. ---

4.1.4 After ORAL Intake

After oral intake lots of water with activated charcoal supplement should be drunk after it has been ingested. Do not induce vomiting under any circumstances. Do not make any efforts to neutralise it. Contact medical advice for possible consequences.

4.2 Most important symptoms and effects, both acute and delayed

Rapid penetration and destruction of the skin. Especially in the heated form.

Causes severe skin burns and eye damage. CMR Effekte: Suspected of damaging fertility.

4.3 Indication of any immediate medical attention and special treatment needed

CORROSIVE DAMAGE: After SKIN CONTACT rinse with water for a long time. Efforts to neutralise the substance can frequently make matters worse. Apply glucocorticosteroides following inflammatory reactions. After EYE CONTACT rinse immediately with plenty of water for a long time. Eyelid convulsion measures. Name the corrosive chemical. Further treatment must to be carried out by an eye specialist. After INTAKE administer aluminium oxide drug suspensions. Administer a prophylaxis to counter pulmonary oedema following the INGESTION of corrosive aerosols. In the event of RESPIRATORY DISTREES ensure that the patient inhales oxygen. ---

SECTION 5: Firefighting measures

5.1 Extinguishing media

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

5.1.2 Unsuitable extinguishing media



Software: M2 V 6.0.20.60

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Safety Data Sheet

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

 REF: 920006
 VISOCOLOR HE Ammonium
 Page: 5/12

 Printing date: 22.11.2022
 Date of issue: 16.03.2022
 Version: 2.2.2.2

no data available

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. Spray any vapours released with water. Retent fire water. Use only acid-resistant safety equipment.

For great amount - if necessary - protective breathing apparatus which is independent of the ambient air (isolated equipment), and sealed protective clothing is necessary in the event of a large-scale formation of toxic substances.

5.4 Additional information

Danger for environment only in the event of a large-scale leakage or formation of hazardous substances.

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). Wear eye protection, respectively face protection. 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

Avoid contact of substance/mixture to environment. **PBT:**not applicable **vPvB:**not applicable

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.

6.4 Reference to other sections

see information in section 5.4,7,8 and 13

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

Safe storage is guaranteed in the original packaging . Storage class (German chemical industry): see chapter 12.1 Storage class (VCI):

8B
Water hazard class (DE):

3

7.2.1 Requirements for stock rooms and containers

Keep original product packages tightly closed during handling and storage. 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 NH 4 -1

Chemical: sodium hydroxide solution CAS No.: 1310-73-2

DNEL: [inh] 1 mg/m³
DNEL = Derived No-Effect Level (for workers)
TRGS 900 (DE): 2 mg/m³

E/e respirable

Short-term exposure factor: (=1=, Y) skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value: 2 e mg/m³ NIOSH: 2 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: [TWA] 2 mg/m³



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 REF: 920006
 VISOCOLOR HE Ammonium
 Page: 6/12

 Printing date: 22.11.2022
 Date of issue: 16.03.2022
 Version: 2.2.2.2

Chemical: tri-sodium citrate CAS No.: 6132-04-3

16 g NH 4 -2

Chemical: sodium nitroprusside CAS No.: 13755-38-9

Chemical: sodium salicylate CAS No.: 54-21-7

DNEL: 1,32 mg/m³
DNEL = Derived No-Effect Level (for workers)

PNEC (fresh water): 0,0413 mg/L PNEC = Predicted No Effected Concentration

Chemical: sodium chloride CAS No.: 7647-14-5

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

No additional recommendations.

8.2.2 Skin protection / Hand protection

Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC, natural latex, Neopren, or Nitril (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 / Face Protection

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

8.2.4 Skin protection

Recommended to avoid clothing damage, and 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.

colourless

8.2.6 Thermal hazards

no data available

8.3 Limitation and monitoring of environmental exposure

Do not release product into environment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

30 mL NH ₄ -1

b) Colour:

a) State of aggregation:

c) Odor: red d) Melting point: no data available e) Boiling point: no data available f) Flammability: no data available g) Explosive limits (lower / upper): no data available h) Flash point: no data available i) Flashing temperature: no data available j) Decomposition temperature: no data available

k) pH value: 12-13

I) Kinematic viscosity: no data available

m) Solubility in water:

n) Dispersion coefficient (o/w):

no data available

n) Dispersion coefficient (o/w):

o) Vapour pressure (20°C):

p) Specific gravity:

q) Relative vapour density (air=1):

r) Particle size:

no data available

no data available

no data available

no data available

16 g NH 4 -2



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Safety Data Sheet

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

Page: 7/12 REF: 920006 VISOCOLOR HE Ammonium Date of issue: 16.03.2022 Printing date: 22.11.2022 Version: 2.2.2.2

a) State of aggregation:

b) Colour: colourless c) Odor: red d) Melting point: no data available

e) Boiling point: no data available f) Flammability: no data available g) Explosive limits (lower / upper): no data available h) Flash point: no data available i) Flashing temperature: no data available j) Decomposition temperature: no data available

k) pH value: 5-7

I) Kinematic viscosity: no data available m) Solubility in water: no data available n) Dispersion coefficient (o/w): no data available o) Vapour pressure (20°C): no data available p) Specific gravity: no data available q) Relative vapour density (air=1): no data available r) Particle size: no data available

9.2 Other information

No data is available for the other parameters for the mixtures, since no registration and no chemical safety report is required. Properties relevant to substance groups

Substances are highly corrosive.

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

Can react violently with organic material. No further data available.

10.4 Conditions to avoid

No more required.

10.5 Incompatible materials

no additional data available

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 the hazard classes according regulation (EC) 1272/2008

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

30 mL NH 4 -1

Chemical: sodium hydroxide solution CAS No.: 1310-73-2

TSCA Inventory: California Proposition 65 List: not listed listed

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

Target Organs: Eyes, skin, respiratory system

irritation eyes, skin, mucous membrane; pneumonitis; eye, skin burns; temporary loss of hair Symptoms:

Australia NICNAS: 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-31487

[40%] 1250 / [<25%] >2000 mg/kg LD50 orl rat:

LD50 orl mus: 40 mg/kg



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CAS No.: 6132-04-3

CAS No.: 13755-38-9

Safety Data Sheet

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

 REF: 920006
 VISOCOLOR HE Ammonium
 Page: 8/12

 Printing date: 22.11.2022
 Date of issue: 16.03.2022
 Version: 2.2.2.2

Chemical: tri-sodium citrate

TSCA Inventory: listed (CAS 68-04-2) Korea Exist.Chem.Inventory: KE-20843

LD50 _{orl rat}: > 8000 mg/kg

16 g NH 4 -2

Chemical: sodium nitroprusside

TSCA Inventory: listed (CAS 14402-89-2)

Korea Exist.Chem.Inventory: not listed LD50 _{orl rat}: 99 mg/kg LC_Low _{orl rat}: 20 mg/kg

Chemical: sodium salicylate CAS No.: 54-21-7

TSCA Inventory: listed
Korea Exist.Chem.Inventory: KE-20384
LD50 orl rat: 1000 mg/kg
LC_Low orl hmn: 700 mg/kg

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

Chemical: sodium chloride CAS No.: 7647-14-5

TSCA Inventory: listed
Korea Exist.Chem.Inventory: KE-31387
LD50 orl rat: 3000 mg/kg

11.2 Other hazards

Possible endocrine disrupting effects

no data available

Other information

no additional data available

SECTION 12: Ecological information

12.1 Toxicity

Following information is valid for pure substances.

30 mL NH ₄ -1

Chemical: sodium hydroxide solution CAS No.: 1310-73-2

LC50 leuciscus idus/96h : 35-189 mg/L LC50 fish/96h : 45.4 mg/L EC50 daphnia/48h : >100 mg/L

Water hazard class (DE): 1 WGK No.: 142

Storage class (VCI): 8 B

Chemical: tri-sodium citrate CAS No.: 6132-04-3

LC50 fish/96h: 18-32 g/L EC50 daphnia/48h: 5.6-10 g/L EC50 chlorella vulgaris/5d: >18-32 g/L

EC10 pseudomonas putita/16h : EC50 ps. fluorescens/8h : >1.8-3.2 g/L

Water hazard class (DE): 1 Storage class (VCI): 12-13

16 g NH ₄ -2

Chemical: sodium nitroprusside CAS No.: 13755-38-9

Water hazard class (DE): 3
Storage class (VCI): 6.1 B

Chemical: sodium salicylate CAS No.: 54-21-7

PNEC (fresh water): 0,0413 mg/L PNEC = Predicted No Effected Concentration

PNEC = Predicted No Effected Concentration
Water hazard class (DE): 1
Storage class (VCI): 12-13



Software: M2 V 6.0.20.60

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Safety Data Sheet

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

REF: 920006 VISOCOLOR HE Ammonium Page: 9/12 Printing date: 22.11.2022 Date of issue: 16.03.2022 Version: 2.2.2.2

> CAS No.: 7647-14-5 Chemical: sodium chloride

Water hazard class (DE): 12-13 Storage class (VCI):

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

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher

12.6 **Endocrine disrupting properties**

no data available

12.7 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).

13.1 Waste treatment methods

Normally it is possible to empty small amounts (diluted!) into drains. Empty containers of corrosive reagents prior to disposal, rinse with water.

SECTION 14: Transport information

14.1. UN number:

14.2. UN proper shipping name: Chemical Kit 14.3. Class: 14.4. Packing group:

Road transport ADR

Classification code: Tunnel restriction code:

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

Air transport ICAO

PAX-960 max. weight PAX: 10 KG CAO: 960 max. weight CAO: 10 KG Maritime transport IMDG

F-A, S-P Storage category: Α

Or use Alternative declaration for transportation:

UN No.: (see below) class 8 III, **Excepted Quantities** (≤30 mL/∑≤1 L) = ADR/ IATA E1

14.1 UN number: 3266 14.2 UN proper shipping name: Corrosive liquid, basic, inorganic, n.o.s. (sodium hydroxide solution)

14.3 Class: 8 14.4 Packing group: Road transport ADR

Classification code: C5

Limited Quantity: 5 L Tunnel restriction code: F E 1

Excepted Quantity: Air transport ICAO

Limited Quantity: LQ7 **Excepted Quantity:** F 1

PAX: 852 max. weight PAX: CAO: 856 max. weight CAO: 60 L

Maritime transport IMDG

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



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Safety Data Sheet

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

Page: 10/12 REF: 920006 VISOCOLOR HE Ammonium Printing date: 22.11.2022 Date of issue: 16.03.2022 Version: 2.2.2.2

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.

SECTION 15: Regulatory information

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

Chemicals Prohibition Ordinance - (DE: ChemVerbotsV), aktualisiert Jan 2017

Dangerous Substances Protection Act (DE: Chemikaliengesetz - ChemG), Aug 2013, Stand: Okt 2020
Ordinance on protection against dangerous substances (E: Gefahrstoffverordnung - GefStoffV), Nov 2010, Stand: Mrz 2017

TRGS 201, Classification and labeling of activities involving hazardous substances, Feb 2017

TRGS 220, National aspects when preparing safety data sheets, Jan 2017

TRGS 400, Risk assessment for activities involving hazardous substances, Jul 2017

TRGS 401, Skin contact hazard - identification, assessment, action, Jun 2008, status: Feb 2011

BekGS 408, Application of the GefStoffV and the TRGS with the entry into force of the CLP regulation, December 2009, status: Jan

TRGS 500, Protective measures, Mai 2008

TRGS 510, Storage of hazardous substances in portable containers from March 2013, status: Oct 2015

Chapter 4, Measures when storing hazardous substances up to 50 kg (small quantity regulation)

Wasserhaushaltsgesetz - WHG, Section 3 Handling substances hazardous to water, Jul 2009, status: Aug 2016

MN leaflet/instructions for use, also at www.mn-net.com

If necessary, observe other country-specific regulations.

15.2 Chemical safety assessment

not necessary for these small amounts

SECTION 16: Other information

16.1 Changes compared to the last version

in preparation

16.2 List of H and P phrases

16.2.1 List of relevant H phrases

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

Causes serious eye irritation. H319

Suspected of damaging fertility or the unborn child. H361

H361f Suspected of damaging fertility.

16.2.2 List of relevant P phrases

P201 Obtain special instructions before use.

P260sh Do not breathe dust/vapours.

P280sh Wear protective gloves/eye protection.

P303+361+353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to P305+351+338

do. Continue rinsing

P310 Immediately call a POISON CENTER/doctor.

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 Sources of key data

KÜHN, BIRETT leaflets on dangerous working materials

Directive 1999/92/EG Minimum requirements to improve the safety and health protection of workers at risk from potentially explosive

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at workSUVA .CH, limit values in the air at work 2009, revised on 01/2009

Regulation 790/2009/EU Adaptation of the CLP Regulation 1272/2008/EU to technical and scientific progress



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Safety Data Sheet

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

REF: 920006 VISOCOLOR HE Ammonium Page: 11/12 Printing date: 22.11.2022 Date of issue: 16.03.2022 Version: 2.2.2.2

Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE PREPARATION OF SAFETY DATA SHEET

Regulation 487/2013/EU, 4. Adaptation of the CLP regulation to technical and scientific progress

TRGS 905, German engineering rules for carcinogenic and mutagenic substances, as of March 18, 2016Regulation 669/2018/EU, 4.

Adaptation of the CLP regulation to technical and scientific progress

Regulation 1480/2018/EU, 4. Adaptation of the CLP regulation to technical and scientific progress

TRGS 900, German engineering rules on limit values in the air at work, as of 03/2019

Regulation 878/2020/EU

Regulation 849/2021/EU, 4. Adaptation of the CLP regulation to technical and scientific progress

Revisions/Updates

Reason for revision: 2014-02 Corrected structure of the sections according to Regulation 453/2010/EU, if necessary

2014-04 Adjustment of Regulation 487/2013/EU 2016-03 Adjustment of Regulation 1221/2015/EU

2017-11 adaptation of the ECHA registration dossier 2022-11 Adjustment of Regulation 878/2020/EU

16.5 **Further information**

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16.6 Legend / Abbreviations

ADR: Convention concerning the International Carriage of Dangerous Goods by Road

Act: acute

biological workplace tolerance value BAT:

CAO: Cargo Aircraft Only

Carc: carcinogen

CAS: Chemical Abstracts Service

CLP: Classification, Labelling and Packaging regulation

CMR: carcinogen, mutagen, reproduction toxic

Corr: corrosive

COD: chemical oxigen demand

CSCL: Chemical Substance Control Law (Jp)

Dam: damage

Derived No-Effect Level (for workers) DNEL:

dermal derm: dog:

EC10: Concentration causing a toxic effect in 10% of the test organisms

European Community EC:

EC-Nr: Substance number of the EC substance inventory Guide to accident management measures on ships FmS:

FU: **Furopean Union** fish: fish (not spezified)

GHS: Global Harmonized System of Classification and Labeling of Chemicals

guinea pig gpg: ICAO:

International Civil Aviation Organization

ihl: inhaled

IMDG: International Maritime Dangerous Goods Code

intrav: intravenous ipt: intraperitonaeal

ISHL: Industrial Safety and Health Law (Jp)

LC50: letale concentration 50% I D50: letale dosis 50%

leuciscus idus: fisch, ide, orfe MAK: maximum workplace concentration

Met: Metall mus. mouse Muta: mutagen

NIOSH: National Institute for Occupational Safety and Health (US)

NRD: Non-rapidly degradable

fish, rainbow trout onchorhynchus mykiss:

orl: oral



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Safety Data Sheet

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

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OSHA: Occupational Safety and Health Administration PAX: transport on passenger planes allowed PBT: persistent, bioaccumulating, toxic substance

pH:

pimephales promelas: fish, fathead minnow PNEC: Predicted No Effected Concentration PROC 15: Process category 'for laboratory use'

PRTR: Law for PRTR and Promotion of Chemical Management (Jp)

PVC: polyvinyl chloride bird, quail quail: rat. rat rabbit rbt:

rapidly degradable RD:

RE: repeated

REACh: Registration, Evaluation, Authorisation and Restriction of Chemicals

REF: item number, reference number

Reg.No.: rRegistration number harmful to reproduction Repr:

Resp: respiratory

RIP: **REACH Implementations Projects**

sub cutan scu: SDS: safety data sheet Sens: sensitisation

STEL: short term exposure limit STOT: Specific Target Organ Toxicity Substance of Very High Concern SVHC:

t/a:

tons per year
Toxic Chemicals Control Act (S. Korea) TCCA: Tox: toxic TSCA: The Toxic Substances Control Act (US) TWA: time weighted average

TRGS: technical regulations (DE)

very persistent, very bioaccumulating substance vPvB:

16.7 Training advice

Regular safety training. 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.



Software: M2 V 6.0.20.60

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