

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

VISOCOLOR ECO Sulfate, refill pack Page: 1/9

Printing date: 12.05.2021 Date of issue: 08.02.2021

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

### 1.1 **Product identifier**

REF 931292

Product name VISOCOLOR ECO Sulfate, 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.

2 x 25 mL SO<sub>4</sub>-1 1 x 25 g SO<sub>4</sub> -2

### 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

E-mail: sds@mn-net.com (msds@mn-net.com) Tel.: +49 2421 969 0

### 1.4 Emergency telephone number

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

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

**DANGER** Signal word

Hazard identification	Hazard classes/categories
H290	Met. Corr. 1
H301	Acute Tox. 3 oral
H302	Acute Tox. 4 oral
H319	Eye Irrit. 2
H332	Acute Tox. 4 inh.

### 2.1 Classification of the substance or mixture

25 mL SO<sub>4</sub> -1

Do not need labelling as hazardous

Signal word

Hazard identification Hazard classes/categories H290 Met. Corr. 1

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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 Fax: +1 484 821 1272 Version: M V 4.12.0 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



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25 g SO<sub>4</sub> -2





Signal word **DANGER** 

Hazard identification	Hazard classes/categories
H301	Acute Tox. 3 oral
H302	Acute Tox. 4 oral
H319	Eye Irrit. 2
H332	Acute Tox. 4 inh.

#### 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

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).

### 25 mL SO<sub>4</sub> -1

Do not need labelling as hazardous Signal word: -

### 25 g SO<sub>4</sub> -2





Signal word: DANGER

H301

Toxic if swallowed.

P280sh, P301+310, P405

Wear protective gloves/eye protection. IF SWALLOWED: Immediately 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 oral intake, 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. -

### Information pertaining to particular risks to the environment

Avoid contact of substance/mixture to environment.

PBT: not applicable vPvB: not applicable

Other hazards

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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 Fax: +1 484 821 1272 Version: M V 4.12.0 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



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

### 3.1 Substances or 3.2 Mixtures

25 mL SO<sub>4</sub> -1

CAS No.: 7647-01-0 Chemical: hydrochloric acid

H290, Met. Corr. 1, H314, Skin Corr. 1B, H331, Acute Tox. 3 inh. Classification:

Formula: HCI•H<sub>2</sub> O

Pseudonvm: aqueous hydrogen chloride

TSCA Inventory: listed

01-2119484862-27-xxxx REACH Reg. No.:

EC No.: 231-595-7 017-002-01-X Indice No.:

RTECS: MW4025000

KE No.: KE-20189, >10% Toxic 97-1-203, Acc. Precaution Chem.

Concentration: 1 - < 10 % acc. CLP (GHS): H290, Met. Corr. 1

25 g SO<sub>4</sub> -2

Chemical: barium chloride CAS No.: 10361-37-2

Classification: H301, Acute Tox. 3 oral, H332, Acute Tox. 4 inh.

Formula: BaCl<sub>2</sub>

Pseudonym: barium dichloride

TSCA Inventory: listed

REACH Reg. No.: 01-2119502547-42-xxxx

EC No.: 233-788-1 Indice No.: 056-004-00-8 CQ8751000 00003445 RTECS: MFCD: KE-02037 KE No.: Concentration: 40 - < 60 %

Correlation factor: x 0.66 (= %Ba) The classification refers to weight percent of the metal (according to CLP Regulation 2008/1272/EC Annex VI, 1.1.3.2 Note 1)

acc. CLP (GHS): H301, Acute Tox. 3 oral, H332, Acute Tox. 4 inh.

Chemical: ammonium chloride CAS No.: 12125-02-9

Classification: H302, Acute Tox. 4 oral, H319, Eye Irrit. 2

Formula: NH<sub>4</sub> CI TSCA Inventory: listed

REACH Reg. No.: 01-2119487950-27-xxxx

017-014-00-8 EC No.: 231-211-8 Indice No.: BP4550000 RTECS: MFCD: 00011420

KE No .: KE-01645

Concentration: 40 - <70 %

acc. CLP (GHS): H302, Acute Tox. 4 oral, H319, Eye Irrit. 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. 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. Rinse the affected skin or mucous membrane thoroughly under running water. (If possible) use

### 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).

#### After INHALATION of vapours 4.1.3

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. ---

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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 +41 62 388 55 05 Fax: +33 388 51 76 88 +1 484 821 1272 Fax: Fax: Version: M V 4.12.0 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

# MACHEREY-NAGEL



# Safety Data Sheet

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4.1.4 After ORAL Intake

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

4.2 Most important symptoms and effects, both acute and delayed

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

TOXIFICATION: Treat symptomatically. Secure the breathing, heart and circulatory function. Remove the substance quickly from the body. Mechanically induce vomiting or ensure the patient eats medicinal charcoal compressed tablets or drinks aluminium oxide drug suspensions. In order to ensure rapid passage through the colon (administer 2 tablespoons of dissolved Glauber's salt). Alleviation of pain, if necessary sedation. Shock treatment. Administer a prophylaxis to counter pulmonary oedema. ---

## **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. 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). 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.

### 6.4 Reference to other sections

see information in section 5.4 ---

# **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. Products containing also toxic substances should be kept locked up.

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

#### 7.2.1 Requirements for stock rooms and containers

Keep original product packages tightly closed during handling and storage, 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.

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MACHEREY-NAGE (MN)

MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany

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 +41 62 388 55 05 Fax: +33 388 51 76 88 +1 484 821 1272 Fax: Fax: Version: M V 4.12.0 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



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

### 8.1 Control parameters

25 mL SO<sub>4</sub> -1

Chemical: hydrochloric acid CAS No.: 7647-01-0

[inh] 8 mg/m<sup>3</sup> DNEL = Derived No-Effect Level (for workers)  $\begin{array}{ccc} PNEC_{(fresh\ water)}: & 36\ \mu g/L \\ PNEC = Predicted\ No\ Effected\ Concentration \end{array}$ 

[TWA] 5 ppm / 8 mg/m<sup>3</sup>; [STEL] 10 ppm/ 15 mg/m<sup>3</sup> EU value:

2 mL/m<sup>3</sup> / 3 mg/m<sup>3</sup> TRGS 900 (DE): 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

List of highly hazardous chemicals, toxics and reactives Yes (TQ = 5000 lbs) n/a; TWA 5 ppm / 7

SUVA(CH) MAK value: 2 ppm / 3\* mg/m<sup>3</sup> NIOSH: [C] 5 ppm / 7 mg/m<sup>3</sup>

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

OSHA: mg/m³

25 g SO<sub>4</sub> -2

barium chloride CAS No.: 10361-37-2 Chemical:

EU value: 0.5<sub>Ba</sub> e mg/m<sup>3</sup> 0,5<sub>Ba</sub> E mg/m<sup>3</sup> TRGS 900 (DE): E/e respirable

1(1) Short-term exposure factor:

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

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

TWA 0.5<sub>Ba</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: TWA 0.5<sub>Ba</sub> mg/m<sup>3</sup>

ammonium chloride Chemical: CAS No.: 12125-02-9

DNEL: 128.9<sub>derm</sub> mg/kg DNEL = Derived No-Effect Level (for workers) PNEC (fresh water): U.20 mg/L
PNEC = Predicted No Effected Concentration SUVA(CH) MAK value: 3 a mg/m<sup>3</sup> NIOSH STEL: 20 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

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 (f.ex. from Ansell or KCL). Use for short times chemical resistant latex gloves with code EN 374-3 level 1.

## 8.2.3

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

### 8.2.4

Recommended to avoid contamination with these hazards.

### 8.2.5

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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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 4.12.0 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

## **MACHEREY-NAGEL**



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

### 9.1 Information on basic physical and chemical properties

25 mL SO<sub>4</sub> -1

Appearance: liquid Colour: colourless Odor: penetrative

pH: Specific gravity: 1,04 g/cm<sup>3</sup> Solubility in water: 0-100 %

25 g SO<sub>4</sub> -2

Colour: colourless Odor: odorless Appearance: powder (solid)

### 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

## **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.

### 25 mL SO<sub>4</sub> -1

Chemical: hydrochloric acid CAS No.: 7647-01-0

TSCA Inventory: California Proposition 65 List: not listed listed inhalation, ingestion (solution), skin and/or eye contact Exposure Routes:

Target Organs: Eyes, skin, respiratory system

irritation nose, throat, larynx; cough, choking; dermatitis; solution: eye, skin burns; liquid: frostbite; in Symptoms:

animals: laryngeal spasm; pulmonary ede

Australia NICNAS: Canada CEPA 1999: DSL Yes not listed

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

Accident Precaution Chemical Yes South Korea TCCA:

Korea Exist.Chem.Inventory: KE-20189, >10% Toxic 97-1-203, Acc. Precaution Chem.

LD50<sub>orl rat</sub>: 900 mg/kg LC50<sub>drm rbt</sub>: >5010 mg/kg

## 25 g SO<sub>4</sub> -2

Chemical: barium chloride CAS No.: 10361-37-2

TSCA Inventory:

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

Target Organs: Eyes, skin, respiratory system, heart, central nervous system

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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 +41 62 388 55 05 +33 388 51 76 88 +1 484 821 1272 Fax: Fax:

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> Symptoms: irritation eyes, skin, upper respiratory system; skin burns; gastroenteritis; muscle spasm; slow pulse,

extrasystoles, hypokalemia

Japan CSCL/PRTR: not listed, Japan PDSCL: Deleterious substance

Japan ISHL: listed ≥1,0%/≥1,0%

Korea Exist.Chem.Inventory: KE-02037 LD50<sub>orl rat</sub>: 118 mg/kg LC\_Loworl hmn 11.4 mg/kg

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

quantities. Acute Effects: Cause after skin contact, impairments of health when ingested in small quantities.

Chemical: ammonium chloride CAS No.: 12125-02-9

TSCA Inventory: listed

not listed, Japan PDSCL: not listed Japan CSCL/PRTR:

Japan ISHL: listed ≥1,0%/≥1,0%,

Korea Exist.Chem.Inventory: KE-01645 1440 mg/kg LD50<sub>orl rat</sub>: LC\_Loworl rbt: 1000 mg/kg LC50<sub>ihl rat</sub>: 1000 ppm/4h LD50<sub>orl mus</sub> : 1300 mg/kg

Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities.

# **SECTION 12: Ecological information**

### 12.1 **Toxicity**

Following information is valid for pure substances.

25 mL SO<sub>4</sub> -1

Chemical: hydrochloric acid CAS No.: 7647-01-0

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

LC50<sub>fish/96h</sub>: 24.6 ma/L EC50<sub>daphnia/48h</sub>: 0.492 mg/L EC50<sub>pseudokirchneriella</sub> subcapitata/72h: 0.78 mg/L

Water hazard class (DE): WGK No.: 0238

Storage class (VCI): 8 B

25 q SO<sub>4</sub> -2

Chemical: barium chloride CAS No.: 10361-37-2

Avoid contact of substance/mixture to environment. LC50<sub>leuciscus idus/96h</sub>: 870 mg/L EC50<sub>daphnia/48h</sub>: 21.9 mg/L

Water hazard class (DE): WGK No.: 0025

Storage class (VCI): 6.1 B

CAS No.: 12125-02-9 Chemical: ammonium chloride

PNEC (fresh water):
PNEC = Predicted No Effected Concentration 0.25 mg/L

LC50<sub>fish/96h</sub>: 42.9 mg/L EC50<sub>daphnia/48h</sub>: 136.6 mg/L

EC50chlorella vulgaris/5d EC50/5d: 1300 mg/L Water hazard class (DE): WGK No.: 0213

Dispersion coefficient(octanol-water): -4.37 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

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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 Fax: +1 484 821 1272

Version: M V 4.12.0 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

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### 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). 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:

UN No.: (see below) class 6.1 III, **Excepted Quantities** (≤30 mL/∑≤1 L) = ADR/ IATA E1

or

14.1 UN number: 1564 14.2 UN proper shipping name: Barium compound, n.o.s.

14.3 Class: 6.1 14.4 Packing group: III

Road transport

Classification code: T5

Limited Quantity: 5 Kg Tunnel restriction code: E Excepted Quantity: E 1 Special instructions: 513

Air transport

PAX: 670 max. weight PAX: 100 Kg CAO: 677 max. weight CAO: 200 Kg

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

## **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 ---

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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 +41 62 388 55 05 +33 388 51 76 88 +1 484 821 1272 Fax: Fax: Fax:

Version: M V 4.12.0 E-mail: info@mn-net.com

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

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

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



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## **SECTION 16: Other information**

### List of H and P phrases 16.1

#### 16.1.1 List of relevant H phrases

H290 May be corrosive to metals. H301 Toxic if swallowed. H302 Harmful if swallowed. H319 Causes serious eye irritation. Harmful if inhaled. H332

#### 16.1.2 List of relevant P phrases

Avoid breathing dust/vapours. P261sh

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

P301+310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P301+312

P330 Rinse mouth.

P390 Absorb spillage to prevent material damage.

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/EÉC 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

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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 Regulation 1480/2018/EU, 4th adaptation of CLP regulation to technical and scientific progress

TRGS 900, German engineering rules governing limits in air at work, updated 03/2019

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

www.mn-net.com

US:

AACHEREY-NAGE (MN

MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany

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 Fax: +1 484 821 1272 Version: M V 4.12.0 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