

# **Safety Data Sheet**

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

VISOCOLOR ECO Silica Page: 1/12 Printing date: 22.11.2022 Date of issue: 27.09.2022 Version: 2.2.2.10

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

1.1 **Product identifier** 

> REF 931033

no data available VISOCOLOR ECO Silica 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 25 mL SiO 2 -3 UFI: 4ART-93U9-0203-QGFX

1 x 25 mL SiO 2 -2

1 x 25 mL SiO 2 -1 UFI: 95RT-93FG-D203-DT9T

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** 

Lieferant | Supp Outside Germany (DE): Call your regional Poisons Information Service or call local Life Saving Service. Callenstr. 3-5
DE: Gemeinsames Giftinformationszentrum (GGIZ)
99089 Erfurt tel. +49 361 730 730 <a href="https://www.callenstr.com/services/bases/ba 85 Karlsruhe, Germany

You find our current versions of SDS in Internet:

<a href="http://www.mn-net.com/\$D\$>">http://www.mn-net.com/\$D\$>"> 49 721 5606 0 sicherheit@cartroth.de

### **SECTION 2: Hazard identification**

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





GHS05

GHS07

Signal word **DANGER** 

Hazard identification Hazard classes/categories

H315 Skin Irrit. 2 H318 Eye Dam. 1 H319 Eye Irrit. 2 031 not defined **EUH031** 

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

25 mL SiO 2 -1





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Signal word WARNING

Hazard identificationHazard classes/categoriesH315Skin Irrit. 2H319Eye Irrit. 2

25 mL SiO 2 -2

Do not need labelling as hazardous

Signal word

No hazard class

25 mL SiO 2 -3



GHS05

Signal word DANGER

Hazard identification Hazard classes/categories
EUH031 031 not defined
H318 Eye Dam. 1

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).

25 mL SiO 2 -1



GHS0

Signal word: WARNING

25 mL SiO 2 -2

Do not need labelling as hazardous Signal word: -

25 mL SiO 2 -3



GHS05

Signal word: DANGER

H318

Causes serious eye damage.

P280sh, P305+351+338, P310

Wear protective gloves/eye protection.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.

## Label elements of the complete product





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Signal word: DANGER

H318

Causes serious eye damage. P280sh, P305+351+338, P310

Wear protective gloves/eye protection.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. 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

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.

### Information pertaining to particular risks to the environment

PBT: not applicable vPvB: not applicable Possible endocrine disrupting effects

no data available

Other hazards

Contains an odor intensive reagent.

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

### 3.1 Substances or 3.2 Mixtures

25 mL SiO 2 -1

Substance name: ammonium heptamolybdate

CAS No.: 12054-85-2

Substance rating: No criteria for classification or naming of chemical not required. Formula: H  $_24$  Mo  $_7$  N  $_6$  O  $_{24}$ 

Formula: H  $_{24}$  Mo  $_{7}$  N  $_{6}$  O  $_{24}$  Pseudonym (de): Ammoniummolybdat REACH Reg. No.: 01-2119498057-28-xxxx

EC No.: 234-722-4

Concentration: 2 - <5 % Correlation factor: x 0.58 (= %Mo)

The classification refers to the weight percentage of the metal (according to CLP regulation 2008/1272/EG Annex VI, 1.1.3.2 Note 1)

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

Substance name: sulfuric acid CAS No.: sulfuric acid 7664-93-9

Substance rating: H290, Met. Corr. 1, H314, Skin Corr. 1B, H318, Eye Dam. 1

Formula: H <sub>2</sub> SO <sub>4</sub> (•H <sub>2</sub> O) REACH Reg. No.: 01-2119458838-20-xxxx

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

Specific concentration limit: Skin Corr 1A; H314 c ≥ 15%

Concentration: 5 - <15 %

acc. CLP (GHS): H315, Skin Irrit. 2, H319, Eye Irrit. 2

25 mL SiO 2 -2

Substance name: oxalic acid CAS No.: 0x4lic acid 144-62-7

Substance rating: H302, Acute Tox. 4 oral, H312, Acute Tox. 4 derm., H318, Eye Dam. 1

Formula: C 2 H 2 O 4; HOOC-COOH Pseudonym (de): Dicarbonsäure, Ethandisäure REACH Reg. No.: 01-2119534576-33-xxxx

EC No.: 205-634-3 Indice No.: 607-006-00-8

Concentration: 1 - <5 %
acc. CLP (GHS): The criteria for classification are not fulfilled

25 mL SiO 2 -3



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Substance name: sodium disulfite CAS No.: 5081-57-4

Substance rating: H302, Acute Tox. 4 oral, H318, Eye Dam. 1, EUH031, 031 not defined

Formula: Na 2 O 5 S 2

Pseudonym (de): Disulfit

REACH Reg. No.: 01-2119531326-45-xxxx

EC No.: 231-673-0 Indice No.: 016-063-00-2 Concentration: 10 - <25 %

acc. CLP (GHS): H318, Eye Dam. 1, EUH031, 031 not defined

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. 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 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. ---

### 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

Causes serious eye damage.

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

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. ---

### 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

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.

### 5.4 Additional information



Software: M2 V 6.0.20.60

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## CHEREY-NAGE



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### SECTION 6: Accidental release measures

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

Do not breathe vapours. 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**

not applicable PBT: 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

# **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):

#### 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

25 mL SiO 2 -1

Chemical: ammonium heptamolybdate CAS No.: 12054-85-2

[Mo] 5 E mg/m<sup>3</sup> TRGS 900 (DE): SUVA(CH) MAK value: [Mo] 5 e mg/m<sup>3</sup>

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

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

 $\begin{array}{ccc} PNEC & \text{(fresh water)} \\ & PNEC = Predicted \ \text{No Effected Concentration} \end{array}$ 2.5 µg/L

EU value: 0.1 e mg/m<sup>3</sup> TRGS 900 (DE): 0.1 E mg/m3

Short-term exposure factor: 1 (I), Y

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

SUVA(CH) MAK value: 0,1 e mg/m<sup>3</sup>

NTP Report on Carcinogens (RoC) List Yes (Known to be a human carcinogen); [TWA] 1 mg/m³ [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period NIOSH:

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

25 mL SiO 2 -2

CAS No · 144-62-7 oxalic acid Chemical:

4.03 inh mg/kg
DNEL = Derived No-Effect Level (for workers) DNEL: PNEC (fresh water): 0,10∠∠ Ing/L PNEC = Predicted No Effected Concentration 1 e mg/m³ FU value: TRGS 900 (DE): 1 E mg/m<sup>3</sup> E/e respirable

Short-term exposure factor: 1 (I), H



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E/e respirable

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

SUVA(CH) MAK value: 1 e mg/m<sup>3</sup>

NIOSH: TWA 1 / ST 2 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: TWA 1 mg/m<sup>3</sup>

25 mL SiO 2 -3

Chemical: sodium disulfite CAS No.: 7681-57-4

DNEL: [inh] 225 mg/m³
DNEL = Derived No-Effect Level (for workers)

TRGS 900 (DE):

SUVA(CH) MAK value: 5 e mg/m³
NIOSH: [TWA] 5 mg/r

H: [TWA] 5 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: none

### 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 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.

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

25 mL SiO 2 -1

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: 0-1

I) Kinematic viscosity: 0-1 no data available

m) Solubility in water: 0-50 %

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



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25 mL SiO 2 -2

a) State of aggregation:

b) Colour: colourless c) Odor: red no data available d) Melting point: e) Boiling point: f) Flammability: no data available

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: 3-5

no data available I) Kinematic viscosity: 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: 1,02 g/cm<sup>3</sup> q) Relative vapour density (air=1): no data available r) Particle size: no data available

25 mL SiO 2 -3

a) State of aggregation:

b) Colour: colourless c) Odor: red no data available d) Melting point: 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: 0-30 %

n) Dispersion coefficient <sub>(o/w)</sub>: 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

## **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

No more required.

10.5 Incompatible materials

no additional data available



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### 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.

25 mL SiO 2 -1

Chemical: ammonium heptamolybdate CAS No.: 12054-85-2

TSCA Inventory: listed (CAS 11098-84-3)
Japan ISHL: listed ≥1,0%/≥0,1%,

Korea Exist.Chem.Inventory: not listed

LD50 <sub>orl rat</sub>: 2000-5000 mg/kg LD50 <sub>ihl rat</sub>: 1,930-5,840 mg/L/4H

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

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, throat; pulmonary edema, bronchitis; emphysema; conjunctivitis; stomatis;

dental erosion; eye, skin burns; dermatitis

Australia NICNAS: not listed Canada CEPA 1999: DSL Yes

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

South Korea TCCA: Accident Precaution Chemical Yes

Korea Exist.Chem.Inventory: KE-32570, >10% Toxic 97-1-405, Acc. Precaution Chem.

LD50 <sub>orl rat</sub>: 2140 mg/kg LC50 <sub>ihl mus</sub>: 0,85 mg/L/4H

TRGS 905 (DE): Kat 4

25 mL SiO 2 -2

Chemical: oxalic acid CAS No.: 144-62-7

TSCA Inventory: listed California Proposition 65 List: not listed

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

Symptoms: Eyes, skin, respiratory system, kidneys Symptoms: Eyes, skin, respiratory Symptoms: Eyes, skin, respiratory Symptoms: Eyes, skin, respir

convulsions, kidney damage

Australia NICNAS: listed >1,0%/>1,0%, Canada CEPA 1999: DSL Yes

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

South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-13152 LD50 orl rat: 75000 mg/kg

25 mL SiO 2 -3

Chemical: sodium disulfite CAS No.: 7681-57-4

TSCA Inventory: listed California Proposition 65 List: not listed

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

Target Organs: Eyes, skin, respiratory system

Symptoms: irritation eyes, skin, mucous membrane

Australia NICNAS: not listed 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-12701 LD50 orl rat: 1540 mg/kg



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#### 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.

25 mL SiO 2 -1

Chemical: ammonium heptamolybdate CAS No.: 12054-85-2

Water hazard class (DE): WGK No.: 0637

Storage class (VCI): 12-13

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

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

LC50 fish/96h: [NOEC, 65d] 25 µg/L EC50 daphnia/48h: 100 mg/L EC10 pseudomonas putita/16h: Water hazard class (DE): [72h] 100 mg/L WGK No.: 0182

8 B Storage class (VCI):

25 mL SiO 2 -2

Chemical: oxalic acid CAS No.: 144-62-7

PNEC (fresh water):
PNEC = Predicted No Effected Concentration 0,1622 mg/L

160 mg/L

LC50 leuciscus idus/96h: 61 <sub>24h</sub> / 162.2 mg/L EC50 daphnia/48h:

EC10 pseudomonas putita/16h: 1550 <sub>16d</sub> mg/L Water hazard class (DE): WGK No.: 0166

Dispersion coefficient (o/w): -1,7 Storage class (VCI): 12

25 mL SiO 2 -3

sodium disulfite CAS No.: 7681-57-4 Chemical:

LC50 fish/96h: 150-220 mg/L EC50 daphnia/48h: 89 mg/L IC50 <sub>scenedesmus</sub> quadricauda/72h : Water hazard class (DE): 48 mg/L

WGK No.: 1169

Storage class (VCI): 8 B

### 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



Software: M2 V 6.0.20.60

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### **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 - 14.4: No dangerous goods according the transport regulations

### 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

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

BekGS 408, Application of the GefStoffV and the TRGS with the entry into force of the CLP regulation, December 2009, status: Jan 2012

TRGS 500, Protective measures, Mai 2008

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

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

Between versions 2.2.2.10 and 2.2.2.2 following changes were applied: - 8 substance data corrected

### 16.2 List of H and P phrases

## 16.2.1 List of relevant H phrases

H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
EUH031 Contact with acids liberates toxic gas.

## 16.2.2 List of relevant P phrases

P260D Do not breathe vapours.

P280sh Wear protective gloves/eye protection.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

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.



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# Safety Data Sheet

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

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#### 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

SUVA .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 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 Regulation 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

according

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

Act:

BAT: biological workplace tolerance value

CAO: Cargo Aircraft Only

carcinogen Carc:

Chemical Abstracts Service CAS:

CLP: Classification, Labelling and Packaging regulation

CMR: carcinogen, mutagen, reproduction toxic

Corr: corrosive

COD: chemical oxigen demand

CSCL: Chemical Substance Control Law (Jp)

Dam:

Derived No-Effect Level (for workers) DNEL:

derm: dermal dog: 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 EmS: Guide to accident management measures on ships

EU: **European Union** fish: fish (not spezified)

GHS: Global Harmonized System of Classification and Labeling of Chemicals

gpg: ICAO: guinea pig

International Civil Aviation Organization

ihl: inhaled

IMDG: International Maritime Dangerous Goods Code intrav-

intravenous intraperitonaeal int<sup>.</sup>

ISHL: Industrial Safety and Health Law (Jp)

LC50: letale concentration 50% LD50: letale dosis 50%

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

Met: Metall mus: mouse Muta: mutagen



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# CHEREY-NAGE



# **Safety Data Sheet**

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

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

NRD: Non-rapidly degradable

onchorhynchus mykiss: fish, rainbow trout

orl: oral

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

pH: pH value

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

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

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

RD: rapidly degradable

RE: repeated

REACh: Registration, Evaluation, Authorisation and Restriction of Chemicals

**REF** item number, reference number Reg.No.: rRegistration number harmful to reproduction Repr:

respiratory Resp:

RIP: **REACH Implementations Projects** 

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

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

t/a: tons per year

TCCA: Toxic Chemicals Control Act (S. Korea)

toxic

Tox: TSCA: The Toxic Substances Control Act (US)

TWA: time weighted average TRGS: technical regulations (DE)

vPvB: very persistent, very bioaccumulating substance

#### 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.



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