

# **Safety Data Sheet**

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

REF: 931022 VISOCOLOR ECO Cyanide Page: 1/12 Date of issue: 30.09.2022 Printing date: 12.01.2023 Version: 2.2.2.2

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

1.1 **Product identifier** 

> REF 931022

Product name VISOCOLOR ECO Cyanide

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 19 mL CN --1

1 x 4 g CN --2 UFI: XAFU-V3HW-D20S-1VNF 1 x 28 mL CN --3 UFI: MQSU-431X-F20P-3658

#### 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. DE: Gemeinsames Giftinformationszentrum (GGIZ)

99089 Erfurt tel. +49 361 730 730, <a href="https://www.ggiz-erfurt.de">https://www.ggiz-erfurt.de</a>

You find our current versions of SDS in Internet:

<a href="http://www.mn-net.com/SDS">http://www.mn-net.com/SDS</a>

# **SECTION 2: Hazard identification**

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







**GHS05** 

**GHS07 GHS08** 

Signal word **DANGER** 

Hazard identification Hazard classes/categories

H314 Skin Corr. 1B H334 Resp. Sens. 1 **EUH031** 031 not defined

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

4 g CN - -2





GHS08

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Signal word DANGER

Hazard identification Hazard classes/categories

EUH031 031 not defined
H314 Skin Corr. 1B
H334 Resp. Sens. 1

28 mL CN - -3

Do not need labelling as hazardous

Signal word -

No hazard class

19 mL CN - -1

Do not need labelling as hazardous

Signal word

No hazard class

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). This labelling exemption is NOT valid for sensibilizing substances.

4 g CN - -2



**-**1805

GHS08

Signal word: DANGER

H314, H334

Causes severe skin burns and eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. 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.

28 mL CN - -3



GHS07

Signal word: WARNING

19 mL CN - -1

Do not need labelling as hazardous Signal word: -

Label elements of the complete product





GHS05

GHS08

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Signal word: DANGER

H314, H334

Causes severe skin burns and eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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.

#### 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.

#### 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.

Cause after impairments of health when ingested in small quantities. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

#### 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

4 g CN - -2

Substance name: *chloramine T* CAS No.: 127-65-1

Substance rating: H302, Acute Tox. 4 oral, H314, Skin Corr. 1B, H334, Resp. Sens. 1, EUH031, 031 not defined

Formula: C 7 H 7 CINNaO 2 S Pseudonym (de): Tosylchloramid-Na

EC No.: 204-854-7 Indice No.: 616-010-00-9

Concentration: 5 - <10 % acc. CLP (GHS): H314, Skin Corr. 1B, H334, Resp. Sens. 1, EUH031, 031 not defined

19 mL CN - -1

Substance name: citrate buffer solution

CAS No.:

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

Concentration: 10 - <25 %

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

28 mL CN - -3

Substance name: 1,3-dimethylbarbituric acid

CAS No.: 769-42-6

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

Formula: C 6 H 8 N 2 O 3 EC No.: 212-211-7 Concentration: 3 - <20 %

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



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Substance name: pyridine-4-carbonic acid (isonicotinic acid)

CAS No.: 55-22-1

Substance rating: H315, Skin Irrit. 2, H319, Eye Irrit. 2

Formula:  $C_6 H_5 NO_2$ Pseudonym (de): iso-Nicotinsäure EC No.: 200-228-2 Concentration: 1 - < 10 %

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

Substance name: sodium hydroxide solution

CAS No.: 1310-73-2

Substance rating: H314, Skin Corr. 1A NaOH•H  $_2$  O verdünnte Natronlauge REACH Reg. No.: H314, Skin Corr. 1A NaOH•H  $_2$  O verdünnte Natronlauge 01-2119457892-27-xxxx

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

Concentration: 1 - <2 %

acc. CLP (GHS): H315, Skin Irrit. 2, 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 16.2.

#### **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. Take to a doctor, in a raised position if there are breathing difficulties.

#### 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. Administer a Dexamethasone spray as soon as possible. Ensure quiet, warmth, and provide resuscitation if necessary. In the event of respiratory distress ensure that the patient inhales oxygen. Secure the breathing, heart and circulatory function. ---

#### 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

May cause allergy or asthma symptoms or breathing difficulties if inhaled. Chronic effects: Repeated contact, even in small amounts, can lead to sensitization. Rapid penetration and destruction of the skin. Especially in the heated form. Causes severe skin burns and eye damage.

### 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. Inform patient respectively further measures and the possibility of long-term damages. ---



Software: M2 V 6.0.28.156

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## **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. 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. Use only in well-ventilated working areas.

### 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): 8A Water hazard class (DE): 2

# 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

4 g CN - -2

Chemical: chloramine T CAS No.: 127-65-1 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



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19 mL CN - -1

Chemical: citrate buffer solution CAS No.: -

28 mL CN - -3

Chemical:1,3-dimethylbarbituric acidCAS No.: 769-42-6Chemical:pyridine-4-carbonic acid (isonicotinic acid)CAS No.: 55-22-1Chemical:sodium hydroxide solutionCAS No.: 1310-73-2

### 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

Use for open access of these substances for example a protection filter, class A/AX. 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.

# 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

#### 4 g CN - -2

a) State of aggregation: powder (solid) b) Colour: . colourless c) Odor: chloric 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

19 mL CN - -1

r) Particle size:

a) State of aggregation:
b) Colour:
c) Odor:
d) Melting point:
liquid
colourless
odorless
no data available



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q) Relative vapour density (air=1):

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no data available

no data available

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> 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: 4-5 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

#### 28 mL CN - -3

a) State of aggregation: liquid yellow b) Colour: odorless c) Odor: 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: 7-10 I) Kinematic viscosity: no data available 0-100 % m) Solubility in water: 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.



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# **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.

4 g CN - -2

Chemical: chloramine T CAS No.: 127-65-1

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 Norea Exist.Chem.Inventory: 2000-3-1539 LD50 orl rat: 1000 mg/kg

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

Chronic Effects: May cause sensitization by skin contact, also in repeated contact of small amounts. May cause allergy or asthma

symptoms or breathing difficulties if inhaled.

19 mL CN - -1

Chemical: citrate buffer solution CAS No.: -

TSCA Inventory: all listed Korea Exist.Chem.Inventory: listed

28 mL CN - -3

Chemical: 1,3-dimethylbarbituric acid CAS No.: 769-42-6

TSCA Inventory: listed LD50 <sub>orl rat</sub>: 1780 mg/kg

Chemical: pyridine-4-carbonic acid (isonicotinic acid) CAS No.: 55-22-1

TSCA Inventory: listed LD50 <sub>orl rat</sub>: 5000 mg/kg

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

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:

Japan CSCL/PRTR: not listed, Japan PDSCL: not listed Japan ISHL: not listed ≥1,0%/≥1,0% SDS required

Korea Exist.Chem.Inventory: KE-31487

LD50 orl rat : [< 1%] > 50000 mg/kg LD50 orl mus : [< 1%] > 4000 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.

4 g CN - -2

Chemical: chloramine T CAS No.: 127-65-1

Water hazard class (DE): 2 WGK No.: 0640

Storage class (VCI): 8 A



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CAS No.: -

CAS No.: 769-42-6

CAS No.: 55-22-1

CAS No.: 1310-73-2

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19 mL CN - -1

Chemical: citrate buffer solution

Water hazard class (DE): 0

Storage class (VCI): 12

28 mL CN - -3

Chemical: 1,3-dimethylbarbituric acid

Water hazard class (DE): 2

Storage class (VCI): 12-13

Chemical: pyridine-4-carbonic acid (isonicotinic acid)

Water hazard class (DE): 1

Storage class (VCI): 12-13

Chemical: sodium hydroxide solution

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): nwg WGK No.: 0142

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

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: 3316

14.2. UN proper shipping name: Chemical Kit 14.3. Class: 9 14.4. Packing group:

Road transport ADR

Classification code: M11 Tunnel restriction code: E

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

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

#### Or use Alternative declaration for transportation:

UN No.: (see below) class 8 II, **Excepted Quantities** (≤30 mL/∑≤500 mL) = ADR/ IATA E2



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14.1 UN number: 3263 14.2 UN proper shipping name: Corrosive solid, basic, organic, n.o.s. (chloramine T mixture)

Tunnel restriction code:

14.3 Class: 8 14.4 Packing group:

Road transport ADR Classification code: C8

Limited Quantity: 1 Kg

Excepted Quantity: E 2

Air transport ICAO

Limited Quantity: LQ23 Excepted Quantity: E 2

 PAX:
 859
 max. weight PAX:
 15 Kg

 CAO:
 863
 max. weight CAO:
 50 Kg

Maritime transport IMDG

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

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

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 2012

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

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.
H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

EUH031 Contact with acids liberates toxic gas.

### 16.2.2 List of relevant P phrases

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].



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# **Safety Data Sheet**

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

 REF: 931022
 VISOCOLOR ECO Cyanide
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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/EÉC 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 hazardous materials, 2021

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

SUVA .CH, limit values in the air at work 2009, revised on 01/2009

Regulation 790/2009/EU, adaptation of Regulation 1272/2008/EU to technical and scientific progress (1st ATP)

Regulation 453/2010/EU, adaptation of the REACH regulation 1907/2006/EG

TRGS 907, German technical rules for listing substances and causes of sensitization, updated November 2011 Regulation

487/2013/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (4th ATP)

Regulation 1221/2015/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (7th ATP) Regulation 776/2017/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (10th ATP)

Regulation 669/2018/EU, adaptation of Regulation 1272/2008/EC to technical and scientific progressText (11th ATP)

Regulation 1480/2018/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (13th ATP)

Regulation 521/2019/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (12th ATP)

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

Regulation 217/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (14th ATP)

Regulation 878/2020/EU, adaptation of Annex II of the REACH regulation 1907/2006/EG

Regulation 1182/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (15th ATP) Regulation 643/2021/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2008/EC to technical and scientific progress (16th ATP)

Regulation 849/2021/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (17th ATP)

#### revisions/updates

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

2014-04 adjustment according Regulation 487/2013/EU 2016-03 adjustment according Regulation 1221/2015/EU

2017-11 adjustment according the ECHA registration dossier 2022-11 adjustment according Regulation 878/2020/EU

#### 16.5 Further information

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#### 16.6 Legend / Abbreviations

acc: according

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

Act: acute

BAT: biological workplace tolerance value

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
DNEL: Derived No-Effect Level (for workers)

derm: dermal dog: dog

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

EC: European Community



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# CHEREY-NAGEI



# **Safety Data Sheet**

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

REF: 931022 VISOCOLOR ECO Cyanide Page: 12/12 Date of issue: 30.09.2022 Printing date: 12.01.2023 Version: 2.2.2.2

FC-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.

Industrial Safety and Health Law (Jp) iSHL:

LC50: letale concentration 50% LD50: letale dosis 50% fisch, ide, orfe leuciscus idus: MAK: maximum workplace concentration

Metall Met. mus: mouse Muta:

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'

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

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

RD: rapidly degradable

RE: repeated

REACh: Registration, Evaluation, Authorisation and Restriction of Chemicals

RFF item number, reference number Reg.No.: rRegistration number

Repr: harmful to reproduction

Resp: respiratory

**REACH Implementations Projects** RIP:

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

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

tons per year t/a

TCCA: Toxic Chemicals Control Act (S. Korea) Tox: toxic 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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