

Safety Data Sheet

according to Regulations REACH 1907/2006/EC

REF: 931044	VISOCOLOR ECO Nitrite	Page: 1/11
Printing date: 27.09.2023	Date of issue: 06.07.2023	Version: 2.2.3.4

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

1.1 Product identifier

REF 931044
 Product name VISOCOLOR ECO Nitrite

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 30 mL NO₂-1 UFI: J6EU-93JR-E20C-FF2M
 1 x 5 g NO₂-2

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
 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, <<https://www.ggiz-erfurt.de>>

You find our current versions of SDS in Internet: <<http://www.mn-net.com/SDS>>

SECTION 2: Hazard identification

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



GHS05

Signal word DANGER

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

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

5 g NO₂-2

Signal word Do not need labelling as hazardous
 -

No hazard class

30 mL NO₂-1



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Safety Data Sheet

according to Regulations REACH 1907/2006/EC

REF: 931044

VISOCOLOR ECO Nitrite

Page: 2/11

Printing date: 27.09.2023

Date of issue: 06.07.2023

Version: 2.2.3.4



GHS05

Signal word

DANGER

Hazard identification

Hazard classes/categories

H290

Met. Corr. 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 identifier(s) (EU 1272/2008 Annex I - 1.5.1.2). 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).

5 g NO₂-2

Do not need labelling as hazardous

Signal word: -

30 mL NO₂-1



GHS05

Signal word: DANGER

Label elements of the complete product



GHS05

Signal word: DANGER

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.

Information pertaining to particular risks to the environment

Possible endocrine disrupting effects

no data available

SECTION 3: Composition / information on ingredients

3.1 Substances or 3.2 Mixtures

5 g NO₂-2



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according to Regulations REACH 1907/2006/EC

REF: 931044	VISOCOLOR ECO Nitrite	Page: 3/11
Printing date: 27.09.2023	Date of issue: 06.07.2023	Version: 2.2.3.4

Substance name: *citric acid*
 CAS No.: 77-92-9

Substance rating: H319, Eye Irrit. 2, H335, resp. irrit. STOT SE 3
 Formula: $C_6H_8O_7$
 Pseudonym (de): Zitronensäure
 REACH Reg. No.: 01-2119457026-42-xxxx
 EC No.: 201-069-1
 Concentration: 1 - <10 %
 acc. CLP (GHS): The criteria for classification are not fulfilled.

Substance name: *N-(1-naphthyl)-ethylenediamine dihydrochloride*
 CAS No.: 1465-25-4

Substance rating: H315, Skin Irrit. 2, H319, Eye Irrit. 2
 Formula: $C_{12}H_{16}Cl_2N_2$
 EC No.: 215-981-2
 Concentration: 1 - <10 %
 acc. CLP (GHS): The criteria for classification are not fulfilled.

30 mL NO₂-1

Substance name: *sulfanilamide*
 CAS No.: 63-74-1

Substance rating: No criteria for classification or naming of chemical not required.
 Formula: $C_6H_8N_2O_2S$
 Pseudonym (de): 4-Aminobenzolsulfonamid
 EC No.: 200-563-4
 Concentration: 1 - <10 %
 acc. CLP (GHS): The criteria for classification are not fulfilled.

Substance name: *o-phosphoric acid*
 CAS No.: 7664-38-2

Substance rating: H290, Met. Corr. 1, H302, Acute Tox. 4 oral, H314, Skin Corr. 1 B
 Formula: $H_3PO_4 \cdot H_2O$
 Pseudonym (de): Orthophosphorsäure, E338
 REACH Reg. No.: 01-2119485924-24-xxxx
 EC No.: 231-633-2
 Concentration: 1 - <10 %
 acc. CLP (GHS): H290, Met. Corr. 1

Indice No.: 015-011-00-6

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.

- 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 with eye washing bottle, eye douche or running water (protect intact eye).
- 4.1.3 After INHALATION of vapours**
 After inhalation of foam or vapour fresh air should be inhaled. Keep airways free. ---



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Safety Data Sheet

according to Regulations REACH 1907/2006/EC

REF: 931044	VISOCOLOR ECO Nitrite	Page: 4/11
Printing date: 27.09.2023	Date of issue: 06.07.2023	Version: 2.2.3.4

- 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**
- 4.3 **Indication of any immediate medical attention and special treatment needed**
No additionally recommendations. ---

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. 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**
Product package burns like paper or plastic.
- 5.4 **Additional information**

SECTION 6: Accidental release measures

- 6.1 **Personal precautions, protective equipment and emergency procedures**
Do not breathe vapours. Regular staff training is necessary.
- 6.2 **Environmental precautions**
not necessary
- 6.3 **Methods and material for containment and cleaning up**
Bind any escaping liquid with inert absorbent.
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 (VC1):	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.
- 7.3 **Specific end use(s)**
Product for analytical use.



Safety Data Sheet

according to Regulations REACH 1907/2006/EC

REF: 931044

VISOCOLOR ECO Nitrite

Page: 5/11

Printing date: 27.09.2023

Date of issue: 06.07.2023

Version: 2.2.3.4

SECTION 8: Exposure controls /personal protection

8.1 Control parameters

5 g NO₂-2

Chemical: *citric acid*

CAS No.: 77-92-9

PNEC (fresh water): 440 mg/L
PNEC = Predicted No Effect Concentration

TRGS 900 (DE): 2 E mg/m³
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

Chemical: *N-(1-naphthyl)-ethylenediamine dihydrochloride*

CAS No.: 1465-25-4

30 mL NO₂-1

Chemical: *sulfanilamide*

CAS No.: 63-74-1

Chemical: *o-phosphoric acid*

CAS No.: 7664-38-2

DNEL: 2.92 mg/m³
DNEL = Derived No-Effect Level (for workers)

EU value: [TWA] 1 / [STEL] 2 mg/m³
TRGS 900 (DE): [8h] 1 / [15min] 2 mg/m³
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

SUVA(CH) MAK value: 1 mg/m³
NIOSH: TWA 1 / ST 3 mg/m³

NIOSH STEL: 3 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 1 mg/m³

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.

8.2.4 Skin protection

Not necessary.

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

5 g NO₂-2

a) State of aggregation:	powder (solid)
b) Colour:	colourless
c) Odor:	odorless
d) Melting point:	no data available
e) Boiling point:	no data available
f) Flammability:	no data available



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Safety Data Sheet

according to Regulations REACH 1907/2006/EC

REF: 931044

VISOCOLOR ECO Nitrite

Page: 6/11

Printing date: 27.09.2023

Date of issue: 06.07.2023

Version: 2.2.3.4

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:	2-3
l) 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

30 mL NO₂-1

a) State of aggregation:	liquid
b) Colour:	colourless
c) Odor:	odorless
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:	2-3
l) 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:	1,04 g/cm ³
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

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.



Safety Data Sheet

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REF: 931044

VISOCOLOR ECO Nitrite

Page: 7/11

Printing date: 27.09.2023

Date of issue: 06.07.2023

Version: 2.2.3.4

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.

5 g NO₂-2

Chemical: *citric acid* CAS No.: 77-92-9
 TSCA Inventory: listed
 Korea Exist.Chem.Inventory: KE-20831
 LD50 orl rat : > 3000 mg/kg
 LC50 ihl rat : 5,800 mg/L
 LD50 orl mus : 5400 mg/kg
 LD50 scu rat : 5500 mg/kg

Chemical: *N-(1-naphthyl)-ethylendiamine dihydrochloride* CAS No.: 1465-25-4
 TSCA Inventory: listed
 Korea Exist.Chem.Inventory: not listed

30 mL NO₂-1

Chemical: *sulfanilamide* CAS No.: 63-74-1
 TSCA Inventory: listed
 Korea Exist.Chem.Inventory: KE-01188
 LD50 orl rat : 3900 mg/kg

Chemical: *o-phosphoric acid* CAS No.: 7664-38-2
 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
 Symptoms: irritation eyes, skin, upper respiratory system; eye, skin, burns; dermatitis
 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-27427
 LD50 orl rat : 1530 mg/kg
 LC50 ihl rbt : 1,689 mg/L
 TRGS 905 (DE): R_F C

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.

5 g NO₂-2

Chemical: *citric acid* CAS No.: 77-92-9
 PNEC (fresh water) : 440 mg/L
 PNEC = Predicted No Effect Concentration
 LC50 leuciscus idus/96h : 440-760 mg/L
 EC50 daphnia/48h : 1535_{24h} mg/L
 IC50 scenedesmus quadricauda/72h : 7d: 425-640 mg/L
 EC10 pseudomonas putida/16h : EC0: >10 g/L
 Water hazard class (DE): 1 WGK No.: 0057
 Dispersion coefficient (o/w) : -1,72
 Storage class (VCI): 13



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Safety Data Sheet

according to Regulations REACH 1907/2006/EC

REF: 931044

VISOCOLOR ECO Nitrite

Page: 8/11

Printing date: 27.09.2023

Date of issue: 06.07.2023

Version: 2.2.3.4

Chemical: *N-(1-naphthyl)-ethylenediamine dihydrochloride*
 Water hazard class (DE): 3
 Storage class (VCI): 13

CAS No.: 1465-25-4

30 mL NO₂-1

Chemical: *sulfanilamide*
 Water hazard class (DE): 1 WGK No.: n.n.
 Storage class (VCI): 13

CAS No.: 63-74-1

Chemical: *o-phosphoric acid*
 LC50_{fish/96h}: 3-3.5 mg/L
 Water hazard class (DE): 1 WGK No.: 0392
 Storage class (VCI): 8 B

CAS No.: 7664-38-2

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.

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 Carriage in bulk by sea in accordance with IMO instruments

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



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Safety Data Sheet

according to Regulations REACH 1907/2006/EC

REF: 931044	VISOCOLOR ECO Nitrite	Page: 9/11
Printing date: 27.09.2023	Date of issue: 06.07.2023	Version: 2.2.3.4

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 2.2.3.4 and 2.2.2.2 following changes were applied: - 1 composition data corrected - 2 substance data corrected

16.2 List of H and P phrases

16.2.1 List of relevant H phrases

H290 May be corrosive to metals.

16.2.2 List of relevant P phrases

16.3 Recommended restriction on use

Only for professional user.
 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
- 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)
- Regulation 692/2022/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2008/EC to technical and scientific progress (18th 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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according to Regulations REACH 1907/2006/EC

REF: 931044

VISOCOLOR ECO Nitrite

Page: 10/11

Printing date: 27.09.2023

Date of issue: 06.07.2023

Version: 2.2.3.4

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 oxygen 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
EC-Nr:	Substance number of the EC substance inventory
EmS:	Guide to accident management measures on ships
EU:	European Union
fish:	fish (not specified)
GHS:	Global Harmonized System of Classification and Labeling of Chemicals
gpg:	guinea pig
ICAO:	International Civil Aviation Organization
ihl:	inhaled
IMDG:	International Maritime Dangerous Goods Code
intrav:	intravenous
ipt:	intraperitoneal
ISHL:	Industrial Safety and Health Law (Jp)
LC50:	lethal concentration 50%
LD50:	lethal dose 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
onchorhynchus mykiss:	fisch, 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:	fisch, fathead minnow
PNEC:	Predicted No Effect Concentration
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
REF:	item number, reference number
Reg.No.:	rRegistration number
Repr:	harmful to reproduction
Resp:	respiratory
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



Safety Data Sheet

according to Regulations REACH 1907/2006/EC

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VISOCOLOR ECO Nitrite

Page: 11/11

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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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