

Safety Data Sheet

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

REF: 920050	VISOCOLOR HE Copper	Page: 1/9
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SECTION 1: Identification of the substance/mixture and of the company

1.1 **Product identifier** REF 920050 no data available VISOCOLOR HE Copper 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 80 mL Cu-1 1 x 60 mL Cu-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) Lieferant | Supplier: Roth GmbH + Co KG 1.4 Emergency telephone number <http://www.mn-net.com/SDS>emperienstr. 3-5 Information not necessary. 76185 Karlsruhe, Germany You find our current versions of SDS in Internet: +49 721 5606 0 sicherheit@carlroth.de **SECTION 2: Hazard identification** 2.0 Classification of the complete product according to Regulation (EC) 1272/2008 2.1 Classification of the substance or mixture according to Regulation (EC) 1272/2008

60 mL Cu-2

Signal word	Do not need labelling as hazardous
No hazard class	-
80 mL Cu-1	
Signal word	Do not need labelling as hazardous
No hazard class	-

List of H phrases: see section 16.2

2.2 Label elements according regulation (EC) 1272/2008





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60 mL Cu-2

Do not need labelling as hazardous Signal word: -

80 mL Cu-1

Do not need labelling as hazardous Signal word: -

Signa

Label elements of the complete product

Signal word: -

2.3 Other hazards

Possible hazards from physicochemical properties

According to our current status of knowledge and experience we state, that this product does not contain any substances, which - in accordance with EC regulations 1272/2008/EC, 1907/2006/EC and German Regulations for Hazardous goods - have to be declared as dangerous goods, either because of their applied concentration or because of their total amount in anyone kit. An individual package has considerably less hazardous potential.

Information pertaining to particular risks to human and possible symptoms

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

60 mL Cu-2

	Substance name: CAS No.:	dimethyl sulfoxide 67-68-5
	Substance rating: Formula: Pseudonym (de): REACH Reg. No.: EC No.: Concentration: acc. CLP (GHS):	No criteria for classification or naming of chemical not required. C $_2$ H $_6$ OS DMSO 01-2119431362-50-xxxx 200-664-3 80 - <100 % The criteria for classification are not fulfilled.
80 mL (Cu-1 Substance name: CAS No.:	citrate buffer solution -
	Substance rating: Concentration: acc. CLP (GHS):	No criteria for classification or naming of chemical not required. 25 - <40 $\%$ The criteria for classification are not fulfilled.

3.3 Remarks

8

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

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4.1 Description of first aid measures
```

Place insured person out of danger zone to fresh air immediately.

 4.1.1
 After SKIN Contact Not necessary.

 4.1.2
 After EYE Contact

Not necessary.

4.1.3 After INHALATION of vapours Not necessary. ---

4.1.4 After ORAL Intake



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Not necessary

4.2 Most important symptoms and effects, both acute and delayed

Indication of any immediate medical attention and special treatment needed 4.3 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 None
- 5.3 Advice for firefighters

No, for listed product.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. Not necessary.
- 6.2 **Environmental precautions** not necessary
- 6.3 Methods and material for containment and cleaning up Clean working area with water. Flush used water into drains.
- Reference to other sections 6.4

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 Safe storage is guaranteed in the original packaging . Storage class (German chemical industry): see chapter 12.1 Storage class (VCI): 12 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.



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SEC1	ION 8: Exposure contr	ols /personal protection	
.1	Control parameters		
	60 mL Cu-2 Chemical: dimethyl sulfo DNEL: DNEL = Derived No-Effect	394 _{inh} mg/m³	AS No.: 67-68-5
	PNEC (fresh water) : PNEC = Predicted No Effe	17 mg/L cted Concentration	
	TRGS 900 (DE):	50 ppm / 160 mg/m³ E/e respirable	
	Short-term exposure factor: skin resorptive (H), respira	2 (I), H, Z atory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excl	uded / (Y) certainly excluded
	SUVA(CH) MAK value:	50 ppm / 160 mg/m³	
	80 mL Cu-1 Chemical: citrate buffer s	solution C.	AS No.: -
.2	Exposure controls Not necessary.Good ventilation a	nd extraction system in the room, floor resistant to chemicals w	vith floor drainage and washing facilitie
.2.1	Respiratory protection Not necessary.		
2.2	Skin protection / Hand prov Not necessary.	tection	
.2.3	Eye / Face Protection Not necessary.		
2.4	Skin protection Not necessary.		
.2.5	Personal hygiene Information not necessary.		
.2.6	Thermal hazards no data available		
.3	Limitation and monitorin	g of environmental exposure	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

60 mL Cu-2 a) State of aggregation: b) Colour:	colourless
c) Odor:	red
d) Melting point:	no data available
e) Boiling point:	no data available
f) Flammability:	no data available
g) Explosive limits (lower / upper):	no data available
h) Flash point:	95 °C
i) Flashing temperature:	no data available
j) Decomposition temperature:	no data available
k) pH value:	no data available
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



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80 mL Cu-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:	8-9	
I) Kinematic viscosity:	no data available	
m) Solubility in water:	0-100 %	
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**

SECTION 10: Stability and reactivity

10.1	Reactivity
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None

- **10.2** Chemical stability no known instability.
- 10.3 Possibility of hazardous reactions None.
- 10.4 Conditions to avoid Not known.

10.5 Incompatible materials Not known.

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.

60 mL Cu-2	
Chemical:	dimethyl sulfoxide
TSCA Inventory:	listed
Korea Exist.Chem.Inv	entory: KE-32367
LD50 _{orl rat} :	14500 mg/kg

CAS No.: 67-68-5

80 mL Cu-1

Chemical:	citrate buffer solution
TSCA Inventory:	all listed
Korea Exist.Chem.In	ventory: listed

CAS No.: -



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1.2	Other hazards		
	Possible endocrine disrupt no data available	ing effects	
	Other information no additional data available		
SECT	ION 12: Ecological info	ormation	
2.1	Toxicity		
	Following information is valid f	or pure substances.	
	60 mL Cu-2 Chemical: dimeth PNEC (fresh water) : PNEC = Predicted No Effected Cond	yl sulfoxide 17 mg/L centration	CAS No.: 67-68-5
	LC50 fish/96h : EC50 _{daphnia} /48h : EC10 pseudomonas putita/16h : Water hazard class (DE):	38.5 g/L 24.6 g/L EC/16h: 7100 mg/L 1 WGK No.: 5050	
	Dispersion coefficient _(o/w) : Storage class (VCI):	-1,35 12	
	80 mL Cu-1 Chemical: citrate	buffer solution	CAS No.: -
	Water hazard class (DE): Storage class (VCI):	0 12	CAS NU
2.2	Persistence and degrada not necessary	bility	
2.3	Bioaccumulative potentia not necessary	al	
2.4	Mobility in soil not necessary		
12.5	Results of PBT and vPvB This substance/mixture contains r and very bioaccumulative (vPvB)	no components considered to be either persisten	it, bioaccumulative and toxic (PBT) or very persistent
12.6	Endocrine disrupting pro no data available	perties	
2.7	Other adverse effects no additional data available		
SECT	ION 13: Disposal cons	iderations	
N	ot necessary.		
13.1	Waste treatment methods GENERAL: Empty solids into mur	5	

SECTION 14: Transport information

14.1 - 14.4 Not necessary

14.5 **Environmental hazards**

none

14.6 Special precautions for user not necessary



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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 MN leaflet/instructions for use, also at www.mn-net.com If necessary, observe other country-specific regulations.

15.2 Chemical safety assessment

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
- 16.2.2 List of relevant P phrases
- 16.3 Recommended restriction on use None

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 atmospheres 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

acc: according

- ADR: Convention concerning the International Carriage of Dangerous Goods by Road Act: acute BAT: biological workplace tolerance value
- CAO: Cargo Aircraft Only
- CAO: Cargo Airci Carc: carcinogen



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 CAS:
 Chemical Abstracts Service
 Classification, Labelling and Packaging regulation

 CMR:
 carcinogen, mutagen, reproduction toxic

 Corr:
 corrosive

	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	
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:	guinea pig	
ICAO:	International Civil Aviation Organization	
ihl:	inhaled	
IMDG:	International Maritime Dangerous Goods Code	
intrav:	intravenous	
ipt:	intraperitonaeal	
ISHL:	Industrial Safety and Health Law (Jp)	
LC50:	letale concentration 50%	
LD50:	letale dosis 50%	
leuciscus idus		
MAK:	maximum workplace concentration	
Met:	Metall	
mus:	mouse	
Muta:	mutagen	
NIOSH:	National Institute for Occupational Safety and Health (US)	
NRD:	Non-rapidly degradable	
onchorhynchu	2	
orl:	oral	
OSHA:	Occupational Safety and Health Administration	
PAX:	transport on passenger planes allowed	
PBT:	persistent, bioaccumulating, toxic substance	
pH:	pH value	
, pimephales p	romelas: fish, fathead minnow	
pimephales p PNEC:	romelas: fish, fathead minnow Predicted No Effected Concentration	
pimephales p PNEC: PROC 15:	romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use'	
pimephales p PNEC: PROC 15: PRTR:	romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp)	
pimephales p PNEC: PROC 15: PRTR: PVC:	romelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride	
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Safety Data Sheet

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

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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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