

# Safety Data Sheet

according to Regulations REACH 1907/2006/EC

REF: 915208  
Printing date: 03.08.2026

VISOCOLOR HE Sulfite SU 100, refill pack  
Date of issue: 06.11.2025

Page: 1/13  
Version: 2.2.2.20

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

### 1.1 Product identifier

REF 915208  
Product name VISOCOLOR HE Sulfite SU 100, refill pack  
REACH Registration number(s): see SECTION 3.1/3.2 or  
A registration number for the substance(s) does not exist because the annual tonnage does not require registration or the substance or its use is excluded from registration.  
1 x 100 mL Sulphite-1  
1 x 100 mL TL SU 100  
1 x 30 mL Sulphite-2 UFI: DWQT-S3D9-F20M-DSJM  
1 x 10 mL Sulphite-3

### 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  
Valenciennner 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: <<https://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**

H314 Skin Corr. 1 B

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

30 mL Sulphite-2



GHS05

Signal word DANGER

**Hazard identification** **Hazard classes/categories**

H314 Skin Corr. 1 B



MACHEREY-NAGEL GmbH & Co. KG  
Valenciennner Str. 11  
52355 Düren · Germany  
[www.mn-net.com](http://www.mn-net.com)

DE Tel.: +49 24 21 969-0 info@mn-net.com  
CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com  
FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com  
US Tel.: +1 888 321 62 24 sales-us@mn-net.com

# Safety Data Sheet

according to Regulations REACH 1907/2006/EC

REF: 915208

VISOCOLOR HE Sulfite SU 100, refill pack

Page: 2/13

Printing date: 03.08.2026

Date of issue: 06.11.2025

Version: 2.2.2.20

## 100 mL Sulphite-1

Signal word Do not need labelling as hazardous  
-  
No hazard class

## 100 mL TL SU 100

Signal word Do not need labelling as hazardous  
-  
No hazard class

## 10 mL Sulphite-3

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

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).

## 30 mL Sulphite-2



GHS05

Signal word: DANGER  
H314  
Causes severe skin burns and eye damage.  
P260sh, P264, P280sh, P303+361+353, P305+351+338, P310, P405, P501  
Do not breathe dust/vapours. Wash hands thoroughly after handling. 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. Store locked up. Dispose of contents/container to regulated waste treatment.

## 100 mL Sulphite-1

Do not need labelling as hazardous  
Signal word: -

## 100 mL TL SU 100

Do not need labelling as hazardous  
Signal word: -

## 10 mL Sulphite-3

Do not need labelling as hazardous  
Signal word: -

## Label elements of the complete product



GHS05

Signal word: DANGER  
H314

# Safety Data Sheet

according to Regulations REACH 1907/2006/EC

REF: 915208

VISOCOLOR HE Sulfite SU 100, refill pack

Page: 3/13

Printing date: 03.08.2026

Date of issue: 06.11.2025

Version: 2.2.2.20

Causes severe skin burns and eye damage.

P260sh, P264, P280sh, P303+361+353, P305+351+338, P310, P405, P501

Do not breathe dust/vapours. Wash hands thoroughly after handling. 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. Store locked up. Dispose of contents/container to regulated waste treatment.

## 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.

### Information pertaining to particular risks to the environment

Should not be released into the 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

#### 30 mL Sulphite-2

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

Substance rating: H314, Skin Corr. 1 B  
Formula:  $H_2SO_4 \cdot (H_2O)$   
REACH Reg. No.: 01-2119458838-20-xxxx  
EC No.: 231-639-5

Indice No.: 016-020-00-8

Specific concentration limit: Eye Irrit. 2; H319: 5 % ≤ C < 15 % - Skin Irrit. 2; H315: 5 % ≤ C < 15 % - Skin Corr 1A; H314 c ≥ 15%

Concentration: 51 - <65 %

acc. CLP (GHS): H314, Skin Corr. 1 B

#### 100 mL Sulphite-1

Substance name: *potassium iodate*  
CAS No.: 7758-05-6

Substance rating: H272, Ox. Sol. 2, H302, Acute Tox. 4 oral, H318, Eye Dam. 1  
Formula:  $KIO_3$   
Pseudonym (de): Kaliumjodat  
REACH Reg. No.: 01-2119920996-25-xxxx

EC No.: 231-831-9

Concentration: 0 - <1 %

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

#### 100 mL TL SU 100

# Safety Data Sheet

according to Regulations REACH 1907/2006/EC

|                           |                                          |                   |
|---------------------------|------------------------------------------|-------------------|
| REF: 915208               | VISOCOLOR HE Sulfite SU 100, refill pack | Page: 4/13        |
| Printing date: 03.08.2026 | Date of issue: 06.11.2025                | Version: 2.2.2.20 |

Substance name: *sodium thiosulfate*  
CAS No.: 7772-98-7

Substance rating: No criteria for classification or naming of chemical not required.  
Formula:  $\text{Na}_2\text{O}_3\text{S}_2$   
REACH Reg. No.: 01-2119531537-38-xxxx  
EC No.: 231-867-5  
Concentration: 0,1 - <1 %  
acc. CLP (GHS): The criteria for classification are not fulfilled.

## 10 mL Sulphite-3

Substance name: *starch*  
CAS No.: 9005-84-9

Substance rating: No criteria for classification or naming of chemical not required.  
Formula:  $(\text{C}_6\text{H}_{10}\text{O}_5)_n$   
REACH Reg. No.: exempt, Annex IV  
EC No.: 232-686-4, 232-679-6  
Concentration: 0 - <1 %  
acc. CLP (GHS): The criteria for classification are not fulfilled.

## 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 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. ---
- 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

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 glucocorticosteroids 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 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 DISTRESSES ensure that the patient inhales oxygen. ---

# Safety Data Sheet

according to Regulations REACH 1907/2006/EC

REF: 915208

Printing date: 03.08.2026

VISOCOLOR HE Sulfite SU 100, refill pack

Date of issue: 06.11.2025

Page: 5/13

Version: 2.2.2.20

## 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

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

Should not be released into the 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.

### 7.2 Conditions for safe storage, including any incompatibilities

Safe storage is guaranteed in the original packaging from MACHEREY-NAGEL. Storage class (German chemical industry): see chapter 12.1

Storage class (VCI): 5.1B

Water hazard class (DE): 1

#### 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

100 mL TL SU 100

Chemical: sodium thiosulfate

CAS No.: 7772-98-7

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



MACHEREY-NAGEL GmbH & Co. KG  
Valencienner Str. 11  
52355 Düren · Germany  
[www.mn-net.com](http://www.mn-net.com)

DE Tel.: +49 24 21 969-0 [info@mn-net.com](mailto:info@mn-net.com)  
CH Tel.: +41 62 388 55 00 [sales-ch@mn-net.com](mailto:sales-ch@mn-net.com)  
FR Tel.: +33 388 68 22 68 [sales-fr@mn-net.com](mailto:sales-fr@mn-net.com)  
US Tel.: +1 888 321 62 24 [sales-us@mn-net.com](mailto:sales-us@mn-net.com)

# Safety Data Sheet

according to Regulations REACH 1907/2006/EC

REF: 915208

Printing date: 03.08.2026

VISOCOLOR HE Sulfite SU 100, refill pack

Date of issue: 06.11.2025

Page: 6/13

Version: 2.2.2.20

## 30 mL Sulphite-2

Chemical: *sulfuric acid*

CAS No.: 7664-93-9

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

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

EU value: 0.1 e mg/m³

TRGS 900 (DE): 0.1 E mg/m³  
E/e respirable

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/m³

NIOSH: 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

OSHA: [TWA] 1 mg/m³

## 100 mL Sulphite-1

Chemical: *potassium iodate*

CAS No.: 7758-05-6

## 10 mL Sulphite-3

Chemical: *starch*

CAS No.: 9005-84-9

NIOSH: TWA 10 (total) / 5 (resp) 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 15 (total) / 5 (resp) 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 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

#### 100 mL TL SU 100

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



MACHEREY-NAGEL GmbH & Co. KG  
Valenciennr Str. 11  
52355 Düren · Germany  
[www.mn-net.com](http://www.mn-net.com)

DE Tel.: +49 24 21 969-0 [info@mn-net.com](mailto:info@mn-net.com)  
CH Tel.: +41 62 388 55 00 [sales-ch@mn-net.com](mailto:sales-ch@mn-net.com)  
FR Tel.: +33 388 68 22 68 [sales-fr@mn-net.com](mailto:sales-fr@mn-net.com)  
US Tel.: +1 888 321 62 24 [sales-us@mn-net.com](mailto:sales-us@mn-net.com)

# Safety Data Sheet

according to Regulations REACH 1907/2006/EC

REF: 915208

VISOCOLOR HE Sulfite SU 100, refill pack

Page: 7/13

Printing date: 03.08.2026

Date of issue: 06.11.2025

Version: 2.2.2.20

|                                                |                   |
|------------------------------------------------|-------------------|
| k) pH value:                                   | 11-11,5           |
| l) Kinematic viscosity:                        | no data available |
| m) Solubility in water:                        | no data available |
| n) Dispersion coefficient ( $K_{o/w}$ ):       | no data available |
| o) Vapour pressure (20°C):                     | no data available |
| p) Specific gravity:                           | no data available |
| q) Relative vapour density ( $\text{air}=1$ ): | no data available |
| r) Particle size:                              | no data available |

## 30 mL Sulphite-2

|                                                |                   |
|------------------------------------------------|-------------------|
| 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:                                   | 0-1               |
| l) Kinematic viscosity:                        | no data available |
| m) Solubility in water:                        | 0-100 %           |
| n) Dispersion coefficient ( $K_{o/w}$ ):       | no data available |
| o) Vapour pressure (20°C):                     | no data available |
| p) Specific gravity:                           | 1,77 g/cm³        |
| q) Relative vapour density ( $\text{air}=1$ ): | no data available |
| r) Particle size:                              | no data available |

## 100 mL Sulphite-1

|                                                |                   |
|------------------------------------------------|-------------------|
| a) State of aggregation:                       | liquid            |
| b) Colour:                                     | colourless        |
| c) Odor:                                       | aminic            |
| 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:                                   | 9-10              |
| l) Kinematic viscosity:                        | no data available |
| m) Solubility in water:                        | 0-100 %           |
| n) Dispersion coefficient ( $K_{o/w}$ ):       | no data available |
| o) Vapour pressure (20°C):                     | no data available |
| p) Specific gravity:                           | 1,02 g/cm³        |
| q) Relative vapour density ( $\text{air}=1$ ): | no data available |
| r) Particle size:                              | no data available |

## 10 mL Sulphite-3

|                                          |                   |
|------------------------------------------|-------------------|
| 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:                             | no data available |
| l) Kinematic viscosity:                  | no data available |
| m) Solubility in water:                  | no data available |
| n) Dispersion coefficient ( $K_{o/w}$ ): | no data available |



MACHEREY-NAGEL GmbH & Co. KG  
Valenciennener Str. 11  
52355 Düren · Germany  
[www.mn-net.com](http://www.mn-net.com)

DE Tel.: +49 24 21 969-0 [info@mn-net.com](mailto:info@mn-net.com)  
CH Tel.: +41 62 388 55 00 [sales-ch@mn-net.com](mailto:sales-ch@mn-net.com)  
FR Tel.: +33 388 68 22 68 [sales-fr@mn-net.com](mailto:sales-fr@mn-net.com)  
US Tel.: +1 888 321 62 24 [sales-us@mn-net.com](mailto:sales-us@mn-net.com)

# Safety Data Sheet

according to Regulations REACH 1907/2006/EC

REF: 915208

VISOCOLOR HE Sulfite SU 100, refill pack

Page: 8/13

Printing date: 03.08.2026

Date of issue: 06.11.2025

Version: 2.2.2.20

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  
no data available

## 9.2 Other information

### 9.2.1 Information on physical hazard classes

no data available

### 9.2.2 Other safety-related parameters

No data is available for the other parameters for the mixtures, since no registration and no chemical safety report is required.

□ □

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.

## 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.

#### 100 mL TL SU 100

Chemical: *sodium thiosulfate*  
TSCA Inventory: listed  
Australia NICNAS: not listed  
Japan CSCL/PRTR: not listed, Japan PDSCL: not listed  
Japan ISHL: not listed  
South Korea TCCA: not listed  
Korea Exist.Chem.Inventory: KE-31633  
LD50 orl rat: > 5000 mg/kg

CAS No.: 7772-98-7

California Proposition 65 List: not listed  
Canada CEPA 1999: DSL yes

#### 30 mL Sulphite-2

Chemical: *sulfuric acid*  
TSCA Inventory: 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  
Japan CSCL/PRTR: not listed, Japan PDSCL: Deleterious Substance  
Japan ISHL: listed ≥1,0%/≥1,0%, Article 57-2 (SDS required)  
South Korea TCCA: Accident Precaution Chemical Yes

CAS No.: 7664-93-9

California Proposition 65 List: not listed

Canada CEPA 1999: DSL Yes



MACHEREY-NAGEL GmbH & Co. KG  
Valencienner Str. 11  
52355 Düren · Germany  
[www.mn-net.com](http://www.mn-net.com)

DE Tel.: +49 24 21 969-0 [info@mn-net.com](mailto:info@mn-net.com)  
CH Tel.: +41 62 388 55 00 [sales-ch@mn-net.com](mailto:sales-ch@mn-net.com)  
FR Tel.: +33 388 68 22 68 [sales-fr@mn-net.com](mailto:sales-fr@mn-net.com)  
US Tel.: +1 888 321 62 24 [sales-us@mn-net.com](mailto:sales-us@mn-net.com)

# Safety Data Sheet

according to Regulations REACH 1907/2006/EC

REF: 915208

VISOCOLOR HE Sulfite SU 100, refill pack

Page: 9/13

Printing date: 03.08.2026

Date of issue: 06.11.2025

Version: 2.2.2.20

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

LD50 orl rat : 2140 mg/kg

LC50 ihl mus : 0,85 mg/L/4H

TRGS 905 (DE): Kat 4

## 100 mL Sulphite-1

Chemical: *potassium iodate*

CAS No.: 7758-05-6

TSCA Inventory: listed

Korea Exist.Chem.Inventory: KE-29148

LD50 orl mus : 531 mg/kg

## 10 mL Sulphite-3

Chemical: *starch*

CAS No.: 9005-84-9

TSCA Inventory: listed

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

Target Organs: Eyes, skin, respiratory system

Symptoms: irritation eyes, skin, mucous membrane; cough, chest pain; dermatitis; rhinorrhea (discharge of thin nasal mucus)

Korea Exist.Chem.Inventory: KE-01773

## 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.

#### 100 mL TL SU 100

Substance name: *sodium thiosulfate*

CAS-Nr.: 7772-98-7

Water hazard class (DE): 1

Storage class (VCI): 12-13

#### 30 mL Sulphite-2

Substance name: *sulfuric acid*

CAS-Nr.: 7664-93-9

Do not release into the environment.

PNEC (fresh water) : 2.5 µg/L

PNEC = Predicted No Effect Concentration = concentration at which no effect on the environment is expected

LC50 fish/96h : [NOEC, 65d] 25 µg/L

EC50 daphnia/48h : 100 mg/L

EC10 pseudomonas putida/16h : [72h] 100 mg/L

Water hazard class (DE): 1 WGK No.: 0182

Storage class (VCI): 8 B

#### 100 mL Sulphite-1

Substance name: *potassium iodate*

CAS-Nr.: 7758-05-6

Water hazard class (DE): 1

Storage class (VCI): 5.1 B

#### 10 mL Sulphite-3

Substance name: *starch*

CAS-Nr.: 9005-84-9

Water hazard class (DE): 1

# Safety Data Sheet

according to Regulations REACH 1907/2006/EC

REF: 915208

VISOCOLOR HE Sulfite SU 100, refill pack

Page: 10/13

Printing date: 03.08.2026

Date of issue: 06.11.2025

Version: 2.2.2.20

## 12.2 Persistence and degradability

## 12.3 Bioaccumulative potential

## 12.4 Mobility in soil

## 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: II

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 IATA DGR

Limited Quantity: PAX: 960 max. quantity PAX: 10 KG  
CAO: 960 max. quantity CAO: 10 KG

Maritime transport IMDG

EmS: F-A, S-P Staukategorie: A

Or use **Alternative declaration for transportation:**

UN No.: (see below) class 8 II, **Excepted Quantities** ( $\leq 30 \text{ mL} / \Sigma \leq 500 \text{ mL}$ ) = ADR/ IATA E2

or

14.1 UN number: 3264

14.2 UN proper shipping name: Corrosive liquid, acidic, inorganic, n.o.s. (sulfuric acid solution)

14.3 Class: 8

14.4 Packing group: II

Road transport ADR

Classification code: C1  
Limited Quantity: 1 L Tunnel restriction code: E  
Excepted Quantity: E 2

Air transport IATA DGR

Limited Quantity: PAX: 851 max. quantity PAX: 1 L  
CAO: 855 max. quantity CAO: 30 L  
Excepted Quantity: E 2

Maritime transport IMDG

EmS: F-A, S-B Staukategorie: B  
Special instructions: 274



MACHEREY-NAGEL GmbH & Co. KG  
Valencienner Str. 11  
52355 Düren · Germany  
[www.mn-net.com](http://www.mn-net.com)

DE Tel.: +49 24 21 969-0 [info@mn-net.com](mailto:info@mn-net.com)  
CH Tel.: +41 62 388 55 00 [sales-ch@mn-net.com](mailto:sales-ch@mn-net.com)  
FR Tel.: +33 388 68 22 68 [sales-fr@mn-net.com](mailto:sales-fr@mn-net.com)  
US Tel.: +1 888 321 62 24 [sales-us@mn-net.com](mailto:sales-us@mn-net.com)

# Safety Data Sheet

according to Regulations REACH 1907/2006/EC

REF: 915208  
Printing date: 03.08.2026

VISOCOLOR HE Sulfite SU 100, refill pack  
Date of issue: 06.11.2025

Page: 11/13  
Version: 2.2.2.20

## 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  
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](http://www.mn-net.com)  
If necessary, observe other country-specific regulations.

### 15.2 Chemical safety assessment

no data available

## SECTION 16: Other information

### 16.1 Changes compared to the last version

Between versions 2.2.2.20 and 2.2.2.2 following changes were applied: - 18 substance data corrected

### 16.2 List of H and P phrases

#### 16.2.1 List of relevant H phrases

H  
H314 Between versions 2.2.2.20 and 2.2.2.2 following changes were applied: - 18 substance data corrected  
Causes severe skin burns and eye damage.

#### 16.2.2 List of relevant P phrases

P260sh Do not breathe dust/vapours.  
P264 Wash hands thoroughly after handling.  
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].  
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.  
P405 Store locked up.  
P501 Dispose of contents/container to regulated waste treatment.

### 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 ArbSchG)!  
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.

### 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)



MACHEREY-NAGEL GmbH & Co. KG  
Valenciennner Str. 11  
52355 Düren · Germany  
[www.mn-net.com](http://www.mn-net.com)

DE Tel.: +49 24 21 969-0 [info@mn-net.com](mailto:info@mn-net.com)  
CH Tel.: +41 62 388 55 00 [sales-ch@mn-net.com](mailto:sales-ch@mn-net.com)  
FR Tel.: +33 388 68 22 68 [sales-fr@mn-net.com](mailto:sales-fr@mn-net.com)  
US Tel.: +1 888 321 62 24 [sales-us@mn-net.com](mailto:sales-us@mn-net.com)

# Safety Data Sheet

according to Regulations REACH 1907/2006/EC

REF: 915208

VISOCOLOR HE Sulfite SU 100, refill pack

Page: 12/13

Printing date: 03.08.2026

Date of issue: 06.11.2025

Version: 2.2.2.20

Regulation 669/2018/EU, adaptation of Regulation 1272/2008/EC to technical and scientific progress (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

MACHEREY-NAGEL GmbH & Co. KG provides the information contained herein in good faith being up-to-date of own realizations at revision time. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose.

MACHEREY-NAGEL GmbH & Co. KG makes NO REPRESENTATIONS or WARRANTIES, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly MACHEREY-NAGEL GmbH & Co. KG will not be responsible for damages resulting from use of or reliance upon this information. See terms and conditions at the end of our price lists for additional information.

## 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: letale concentration 50%  
 LD50: letale dosis 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)



MACHEREY-NAGEL GmbH & Co. KG  
 Valencienner Str. 11  
 52355 Düren · Germany  
[www.mn-net.com](http://www.mn-net.com)

DE Tel.: +49 24 21 969-0 info@mn-net.com  
 CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com  
 FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com  
 US Tel.: +1 888 321 62 24 sales-us@mn-net.com

# Safety Data Sheet

according to Regulations REACH 1907/2006/EC

|                           |                                          |                   |
|---------------------------|------------------------------------------|-------------------|
| REF: 915208               | VISOCOLOR HE Sulfite SU 100, refill pack | Page: 13/13       |
| Printing date: 03.08.2026 | Date of issue: 06.11.2025                | Version: 2.2.2.20 |

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  
 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  
 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.