## MACHEREY-NAGEL



## according to Regulations REACh 1907/2006/EC

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

| 1.1  | Product identifier                   |   |
|------|--------------------------------------|---|
|      | REF                                  | 985033  |
|      | Product name                         | NANOCOLOR COD 300   |
|      | rioddothamo                          |   |
|      | REACH Registration number            | r(s): see SECTION 3.1/3.2 or<br>he substance(s) does not exist because the annual tonnage does not require registration or  |
|      |                                      | excluded from registration.   |
|      |                                      | 0   |
|      | 20 x 4 mL COD 300                    | J (RU) UFI: F7TU-536A-920N-27NN   |
| 1.2  | Relevant identified uses             | of the substance or mixture and uses advised against  |
| •••= | Relevant identified uses             |   |
|      | Product for analytical use.          |   |
|      |                                      | ification according REACh, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0  |
|      |                                      | 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)  |
|      |                                      | Imber       Sin Internet:       Sin Internet: |
| 1.4  | Emergency telephone nu               | imber or KG   |
|      | Outside Germany (DE): Call           | your regional Poisons Information Service or call local Life Savirgi Carrier and the  |
|      | DE: Gemeinsames Giftinforn           | nationszentrum (GGIZ)   |
|      | 99089 Frfurt tel +49                 | 361 730 730 Carl Cottos://www.ggiz-erfurt.de>   |
|      |                                      | s in Internet: <a href="http://www.mn-net.com/SDS">http://www.mn-net.com/SDS</a> Karlsruhe, Germany<br>S in Internet: <a href="http://www.mn-net.com/SDS">http://www.mn-net.com/SDS</a> Karlsruhe, Germany<br>A internet: <a href="http://www.mn-net.com/SDS">http://www.mn-net.com/SDS</a> Karlsruhe, Germany  |
|      | You find our current versions of SDS | S in Internet: <a href="http://www.mn-net.com/SD\$5">http://www.mn-net.com/SD\$5</a> Kalls of 5600 de   |
|      |                                      | 7618 +497218 aarlfoth.08  |
|      |                                      | S in Internet: <a href="http://www.mn-net.com/SD\$">KarlStur. 5606 0</a><br>+49 721 5606 0<br>+49 721 5606 0<br>sicherheit@carlroth.de  |
|      |                                      | sicher  |
| 000  |                                      |   |

## **SECTION 2: Hazard identification**

Signal word

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

|        | $\Diamond$ |       |
|--------|------------|-------|
| GHS05  | GHS07      | GHS08 |
| DANGER |            |       |

| -                     |                           |  |
|-----------------------|---------------------------|--|
| Hazard identification | Hazard classes/categories |  |
| H302                  | Acute Tox. 4 oral         |  |
| H312                  | Acute Tox. 4 derm.        |  |
| H314                  | Skin Corr. 1 B            |  |
| H317                  | Skin Sens. 1              |  |
| H332                  | Acute Tox. 4 inh.         |  |
| H373                  | STOT RE 2                 |  |
| H412                  | Aquatic Chronic 3         |  |

2.1 Classification of the substance or mixture according to Regulation (EC) 1272/2008 4 mL COD 300 (R0)

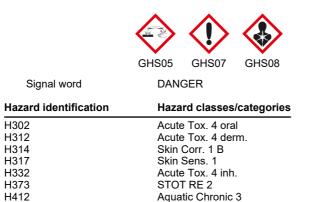


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List of H phrases: see section 16.2

### 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). Inner packages up to 10 mL need max. 2 symbols (Annex I - 1.5.2.4.1 / 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 mL COD 300 (R0)



Signal word: DANGER

H314, H317

Causes severe skin burns and eye damage.May cause an allergic skin reaction.

P260sh, P264, P280sh, P303+361+353, P305+351+338, P310, P333+313, 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.If skin irritation or rash occurs: Get medical advice/attention.Store locked up.Dispose of contents/container to regulated waste treatment.

### Label elements of the complete product



Signal word: DANGER H314, H317 Causes severe skin burns and eye damage.May cause an allergic skin reaction. P260sh, P264, P280sh, P303+361+353, P305+351+338, P310, P333+313, 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.If skin irritation or rash occurs: Get medical advice/attention.Store locked up.Dispose of contents/container to regulated waste treatment.

### 2.3 Other hazards

Possible hazards from physicochemical properties



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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 oral intake, inhalation of vapours/dust, skin contact, impairments of health when ingested in small quantities. May cause sensitization by skin contact, also in repeated contact of small amounts. Can accumulate within the body.

The risk assessment of the tube tests showed no risk H331 "Toxic if inhaled." at the application.

Information pertaining to particular risks to the environment Avoid contact of substance/mixture to environment.

PBT:not applicablevPvB:not applicable

Possible endocrine disrupting effects no data available

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

### 3.1 Substances or 3.2 Mixtures

4 mL COD 300 (R0) Substance name:

CAS No .:

*mercury(II) sulfate* 7783-35-9

Substance rating:H300, Acute Tox. 2 oral, H310, Acute Tox. 1 derm., H330, Acute Tox. 2 inh., H373, STOT RE 2,H400, Aquatic Acute 1, H410, Aquatic Chronic 1Formula:HgSO 4REACH Reg. No.:not necessary, amount <1 t/a</td>EC No.:231-992-5Specific concentrationImit:STOT RE 2 H373; c ≥ 0,1%Concentration:0,37 - <0,74 %</td>Correlation factor: x 0.68 (= %Hg)The classification refers to the weight percentage of the metal (according to CLP regulation 2008/1272/EG Annex VI, 1.1.3.2 Note 1)

acc. CLP (GHS): H302, Acute Tox. 4 oral, H312, Acute Tox. 4 derm., H332, Acute Tox. 4 inh., H373, STOT RE 2, H412, Aquatic Chronic 3

| Substance name:<br>CAS No.:                  | <i>sulfuric acid</i><br>7664-93-9                                |                       |                         |   |
|--|--|-----------------------|-------------------------|---|
| Substance rating:<br>Formula:                | H314, Skin Co<br>H <sub>2</sub> SO <sub>4</sub> (•H <sub>2</sub> |                       |                         |   |
| REACH Reg. No.:                              | 01-211945883   | 38-20-xxxx            |                         |   |
| EC No.:                                      | 231-639-5  |                       | Indice No.:             | 016-020-00-8  |
| Specific concentration $1A; H314 c \ge 15\%$ | n limit:   | Eye Irrit. 2; H319: 5 | % ≤ C < 15 % - Skin Irr | it. 2; H315: 5 % ≤ C < 15 % - Skin Corr   |
| Concentration:                               | 80 - <100 %  |                       |                         |   |
| acc. CLP (GHS):                              | H314, Skin Co  | orr. 1 B              |                         |   |
| Substance name:                              | potassium dic  | hromate               |                         |   |
| CAS No.:                                     | 7778-50-9  |                       |                         |   |
|  |  |                       |                         | ox. 4 derm., H314, Skin Corr. 1 B, H317,<br>H335, resp. irrit. STOT SE 3, H340, |
| , ,  | '  | ), Repr. 1 B, H372, S | TOT RE 1, H400, Aqua    | tic Acute 1, H410, Aquatic Chronic 1  |
| Formula:                                     | K 2 Cr 2 O 7   |                       |                         |   |
| Pseudonym (de):                              |  |                       |                         |   |
| REACH Reg. No.:                              |  |                       |                         |   |
| SVHC listed:                                 |  | formulation+use ac    | c. Art.56(3)+Q&A1030    |   |
| EC No.:                                      | 231-906-6  |                       | Indice No.:             | 024-002-00-6  |
| Specific concentration                       |  | STUT SE 3; H335 0     |                         |   |
| Concentration:                               | 0 - <0,1 %   |                       | Correlation factor: x ( | $J.79 (= \% CrO_4)$   |

The classification refers to the weight percentage of the metal (according to CLP regulation 2008/1272/EG Annex VI, 1.1.3.2 Note 1) acc. CLP (GHS): H317, Skin Sens. 1



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|                      | Substance name:                               | silver sulfate                                 |  |                   |
|                      | CAS No.:                                      | 10294-26-5                                     |  |                   |
|                      | Substance rating:                             | H318, Eye Dam. 1, H40                          | 0, Aquatic Acute 1, H410, Aquatic Chronic 2  |                   |
|                      | Formula:                                      | Ag <sub>2</sub> SO <sub>4</sub>                |  |                   |
|                      | Pseudonym (de):                               | Disilber(I)-sulfat                             |  |                   |
|                      | REACH Reg. No.:                               | 01-2119918297-31-xxx                           | (  |                   |
|                      | EC No.:                                       | 233-653-7                                      |  |                   |
|                      | Concentration:<br>The classification refers t | 0,1 - <1 %<br>o the weight percentage of the m | Correlation factor: x 0.69 (= %Ag)<br>etal (according to CLP regulation 2008/1272/EG Annex VI, 1.1 | .3.2 Note 1)      |
|                      | acc. CLP (GHS):                               | The criteria for classification a              | re 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

Causing allergies. 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

Chronic effects: Potassium dichromate: 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.

Can accumulate in the body.

### 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. ---

### **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.



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### 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 a safety bottle when shaking test tubes.

- 7.2
   Conditions for safe storage, including any incompatibilities

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

   Storage class (VCI):
   8B

   Water hazard class (DE):
   3
- 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 mL COD 300 (R0)   |  |                                   |
|---|--|-----------------------------------|
| Chemical: mercury(II) su                                    | Ifate  | CAS No.: 7783-35-9                |
| EU value:   | [Hg] 0.02 e mg/m <sup>3</sup>  |                                   |
| TRGS 900 (DE):  | [Hg] 0,02 E mg/m³<br>E/e respirable  |                                   |
| Short-term exposure factor:<br>skin resorptive (H), respira | 8 (II), H, Sh<br>atory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely | excluded / (Y) certainly excluded |
| SUVA(CH) MAK value:   | [Hg][MAK] 0,02 e/[STEL] 0,16 e mg/m³   |                                   |
| SUVA(CH) BAT value:   | [Krea U/d] 35 µg/L   |                                   |
| TRGS 903 (DE):  | [U/a <sub>Kreatinin</sub> ] 25 µg/g  |                                   |
|   | B blood, U urine, a no limitation, b end of exposition or shift                                |                                   |
| NIOSH:  | [Hg Vapor: TWA <sub>skin</sub> ] 0.05; other 0.1 mg/m <sup>3</sup>                             |                                   |
| [TWA] Time-weighted aver                                    | rage to a reference period of 8 hours, [STEL] Short-term exposure limit rel                    | ated to a 15-minute period        |
| OSHA:   | [TWA] 0.1 mg/m <sup>3</sup>  |                                   |



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|                | Chemical: sulfuric acid<br>DNEL:<br>DNEL = Derived No-Effect<br>PNEC (fresh water) :<br>PNEC = Predicted No Effect |  |                   |
|                | EU value:<br>TRGS 900 (DE):  | 0.1 e mg/m³<br>0.1 E mg/m³<br>E/e respirable   |                   |
|                | Short-term exposure factor:<br>skin resorptive (H), respi  | 1 (I), Y<br>ratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly exclud   | ed                |
|                | SUVA(CH) MAK value:<br>NIOSH:<br>[TWA] Time-weighted ave   | 0,1 e mg/m³<br>NTP Report on Carcinogens (RoC) List Yes (Known to be a human carcinogen); [ <sup>-</sup><br>erage to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period     | ГWA] 1 mg/m³      |
|                | OSHA:  | [TWA] 1 mg/m <sup>3</sup>  |                   |
|                | Chemical: potassium di<br>DNEL:<br>DNEL = Derived No-Effect  | [inh] 0.01 mg/m³   |                   |
|                | TRGS 900 (DE):   | [CrVI] (0,05 E <sub>ausgesetzt</sub> ) mg/m³<br>E/e respirable   |                   |
|                | Short-term exposure factor:<br>skin resorptive (H), respi  | (4), H<br>ratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly exclud   | ed                |
|                | SUVA(CH) MAK value:<br>SUVA(CH) BAT value:<br>NIOSH:<br>8h 0.0002 cr03 mg/m <sup>3</sup>                           | 0,05 e mg/m³<br>[U/b] 20 μg/L<br>NTP Report on Carcinogens (RoC) List Yes (Chromium VI - Known to be a human<br>erage to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period |                   |
|                | OSHA:  | [CrO3][TWA] 0.005 mg/m <sup>3</sup>  |                   |
|                | Chemical: silver sulfate<br>DNEL:<br>DNEL = Derived No-Effect  | cAS No.: 10294-26-5<br>no data<br>t Level (for workers)  |                   |
|                | PNEC (fresh water):<br>PNEC = Predicted No Eff   | 0.04 μg/L<br>ected Concentration   |                   |
|                | EU value:<br>TRGS 900 (DE):  | [Ag] 0.01e mg/m³<br>[Ag] 0,01 E mg/m³<br>E/e respirable  |                   |
|                | Short-term exposure factor:<br>skin resorptive (H), respi  | 2 (I)<br>ratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly exclud  | ed                |
|                | NIOSH:<br>[TWA] Time-weighted ave  | [TWA] 0.01 mg/m <sup>3</sup><br>erage to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period   |                   |
|                | OSHA:  | [TWA] 0.01 mg/m <sup>3</sup>   |                   |

### 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



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## **MACHEREY-NAGEL**



## Safety Data Sheet

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## 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

| <pre>4 mL COD 300 (R0) a) State of aggregation: b) Colour: c) Odor: d) Melting point: e) Boiling point: f) Flammability: g) Explosive limits (lower / upper): h) Flash point: i) Flash point: i) Flashing temperature: j) Decomposition temperature: k) pH value: l) Kinematic viscosity: m) Solubility in water: n) Dispersion coefficient (o/w) : o) Vapour pressure (20°C): p) Specific gravity: q) Relative vapour density (air=1) : t) Decomposition temperature: </pre> | liquid<br>yellow<br>odorless<br>no data available<br>no data available<br>no data available<br>no data available<br>no data available<br>no data available<br>0<br>no data available<br>0-100 %<br>no data available<br>1,73 g/cm <sup>3</sup><br>no data available |
|---|---|
| q) Relative vapour density <sub>(air=1)</sub> :   | 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

Strong CORROSIVE, 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

Observe the storage temperature printed on it. 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.

| 4 IIIL COD 300 (IX0) |                      |  |
|----------------------|----------------------|--|
| Chemical:            | mercury(II) sulfate  | CAS No.: 7783-35-9   |
| TSCA Inventory:      | listed               | California Proposition 65 List: listed developmental                                   |
| Exposure Routes:     | inhalation, skin at  | psorption, ingestion, skin and/or eye contact  |
| Target Organs:       | Eyes, skin, respira  | atory system, central nervous system, kidneys  |
| Symptoms:            | irritation eyes, ski | n; cough, chest pain, dyspnea (breathing difficulty), bronchitis, pneumonitis; tremor, |



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|                             |                 |                               |  |                                       |
| insomnia, irritability      | indecisio       | n, headac                     |  |                                       |
| Australia NICNAS:           | ,               | not listed                    | Canada CEPA 1999: yes (mercury c   | ompound - Item 8.)                    |
| Japan CSCL/PRTR             | 2-              |                               | ss I, Japan PDSCL: Poisonous substance   |                                       |
| Japan ISHL:                 |                 |                               | Article 57-2 (SDS required)  |                                       |
| South Korea TCCA            |                 | not listed                    | Anticle 37-2 (SDO required)  |                                       |
|                             |                 | KE-23132, Toxic 97-           | 1 140  |                                       |
|                             | inventory.      |                               | 1-140  |                                       |
| LD50 orl rat :              |                 | 57 mg/kg                      | for a second for a state of the second s | alth uith an in march of in an all    |
|                             | se alter or     | al intake, innalation of      | f vapours/dust, skin contact, impairments of he  | eaith when ingested in small          |
| quantities.                 |                 |                               | where the second second second second second   |                                       |
|                             | ay cause o      |                               | ough prolonged or repeated exposure.   |                                       |
| TRGS 907 (DE):              |                 | Sh                            |  |                                       |
| Chemical:                   | sulfurio        | acid                          | CAS N  | o.: 7664-93-9                         |
| TSCA Inventory:             | canan           | listed                        | California Proposition 65 List: not listed   |                                       |
| ACGIH:                      |                 | 1 ppm                         |  |                                       |
| Exposure Routes:            |                 |                               | skin and/or eye contact  |                                       |
|                             |                 | Eyes, skin, respirator        |  |                                       |
| Target Organs:              |                 |                               |  |                                       |
| Symptoms:                   |                 |                               | nose, throat; pulmonary edema, bronchitis; em  | physema, conjunctivitis, stomatis     |
| dental erosion, eye         | , skin duri     |                               |  |                                       |
| Australia NICNAS:           |                 | not listed                    | Canada CEPA 1999: DSL Yes  |                                       |
| Japan CSCL/PRTR             | K:              |                               | SCL: Deleterious Substance   |                                       |
| Japan ISHL:                 |                 |                               | Article 57-2 (SDS required)  |                                       |
| South Korea TCCA            |                 | Accident Precaution           |  |                                       |
| Korea Exist.Chem.           | Inventory:      |                               | xic 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                         |  |                                       |
| Chemical:                   | notass          | ium dichromate                | CAS N  | o.: 7778-50-9                         |
| TSCA Inventory:             | <i>p</i> 010.00 | listed                        | California Proposition 65 List: listed cancer, o   |                                       |
| ACGIH:                      |                 | [CrVI] 0.05 mg/m <sup>3</sup> |  | developmental, female, male           |
| Exposure Routes:            |                 |                               | skin and/or eye contact  |                                       |
| Target Organs:              |                 |                               | stem, liver, kidneys, eyes, skin; [lung cancer]  |                                       |
|                             |                 |                               |  | domaga, laukaantasia (inaraaaa        |
| Symptoms:                   |                 |                               | system; nasal septum perforation; liver, kidney  | damage, leukocytosis (increase        |
| blood leukocytes), l        |                 |                               |  |                                       |
| Japan CSCL/PRTR             | K:              |                               | ecific class I, Japan PDSCL: Deleterious substa  | ance                                  |
| Japan ISHL:                 |                 |                               | Article 57-2 (SDS required)  |                                       |
| South Korea TCCA            |                 | yes, Restricted Chen          | nical  |                                       |
| Korea Exist.Chem.           | Inventory:      |                               |  |                                       |
| LD50 orl rat :              |                 | 25 mg/kg                      |  |                                       |
| LC_Low <sub>orl gpg</sub> : |                 | 163 mg/kg                     |  |                                       |
| LC50 ihl rat :              |                 | 0,094 mg/L/4H                 |  |                                       |
| Acute Effects: Caus         | se after sk     | in contact, impairmen         | ts of health when ingested in small quantities.  | May cause sensitization by skin       |
| contact, also in rep        | eated con       | tact of small amounts         | - '  | -                                     |
| EU carcinogen:              |                 | carc. 1B, mutag. 1B,          |  |                                       |
| TRGS 905 (DE):              |                 | K2                            | •  |                                       |
| TRGS 907 (DE):              |                 | Sh                            |  |                                       |
| Chemical:                   | silver s        | ulfata                        |  | o.: 10294-26-5                        |
|                             | Silvers         |                               | CAS NO   | J. 10294-20-3                         |
| TSCA Inventory:             |                 | listed                        | akin and/or ava contact  |                                       |
| Exposure Routes:            |                 |                               | skin and/or eye contact  |                                       |
| Target Organs:              |                 | Nasal septum, skin, e         |  | and the local states of the states of |
| Symptoms:                   |                 |                               | al septum, throat, skin; irritation, ulceration skir   | n; gastrointestinal disturbance       |
| Japan CSCL/PRTR             | R:              |                               | ss I, Japan PDSCL: Deleterious substance   |                                       |
| Japan ISHL:                 |                 | listed ≥1,0%/≥0,1%            |  |                                       |
| Koroa Evict Chom            | Inventory.      | KE-12273, >25% To:            | xic 97-1-92  |                                       |
|                             |                 |                               |  |                                       |
| LD50 orl rat :              |                 | 2000-5110 mg/kg               |  |                                       |

### 11.2 Other hazards

Possible endocrine disrupting effects no data available Other information



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no additional data available

## **SECTION 12: Ecological information**

### 12.1 Toxicity

Following information is valid for pure substances.

|  | ulfate<br>ting effects. Avoid contact of substance/mixture to en<br>e labelled with P phrases until 125 mL (EU 1272/2008<br>LC <sub>50</sub> : 0.5 <sub>HgCl2/48h</sub> mg/L<br>3 WGK No.: 0412<br>6.1 B |   |
|--|--|---|
| Chemical: sulfuric acid<br>Avoid contact of substance/mixture<br>PNEC (fresh water) :<br>PNEC = Predicted No Effected Concentratio<br>LC50 fish/96h :<br>EC50 daphnia/48h :<br>EC10 pseudomonas putita/16h :<br>Water hazard class (DE):<br>Storage class (VCI): |  | CAS No.: 7664-93-9                          |
| Chemical: potassium dia<br>LC50 <sub>fish/96h</sub> :<br>EC50 <sub>daphnia</sub> /48h :<br>Water hazard class (DE):<br>Storage class (VCI):  | <i>chromate</i><br>26.13 mg/L<br>0.77 mg/L<br>3 WGK No.: 339<br>6.1 B  | CAS No.: 7778-50-9                          |
| Chemical: silver sulfate<br>PNEC (fresh water) :<br>PNEC = Predicted No Effected Concentratio  | 0.04 μg/L  | CAS No.: 10294-26-5                         |
| LC50 daphnia magna/48h :<br>LC50 fish/96h :<br>EC10 pseudomonas putita/16h :<br>Water hazard class (DE):<br>Storage class (VCI):   | 0.22 μg/L<br>[4d] 1.2 μg/L<br>[24h] 0.41-0.54 μg/L<br>3<br>12  |   |
| Persistence and degradability  |  |   |
| not necessary  |  |   |
| Bioaccumulative potential  |  |   |
| not necessary  |  |   |
| Mobility in soil   |  |   |
| not necessary  |  |   |
| Results of PBT and vPvB asse   |  |   |
| This substance/mixture contains no com   | ponents considered to be either persistent, bioaccun   | nulative and toxic (PBT) or very persistent |

- and very bioaccumulative (vPvB) at levels of 0.1% or higher12.6 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

Not necessary, see above.



12.2

12.3

12.4

12.5

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| ECTION 14: Transpo   | ort informati   | on   |   |                  |                  |
| 14.1. UN number: 3316  |   | •  |   |                  |                  |
| 14.2. UN proper shipping   |   | Kit  |   |                  |                  |
| 14.3. Class: 9   | ,   |  |   |                  |                  |
| 14.4. Packing group:   | Ш   |  |   |                  |                  |
| Road transport ADR   |   |  |   |                  |                  |
| Classification code:   | M11 Tu  | unnel restriction code: E  |   |                  |                  |
| Limited Quantity:  | acc. ADR 3.3.1/2  | 251: see LQ in Alternative decla   | ration for transporta   | tion             |                  |
| Air transport IATA DGR   |   |  |   |                  |                  |
| Limited Quantity:  | PAX:  | 960  | max. qu   | antity PAX: 10 K | G                |
| -  | CAO:  | 960  | max. qu   | antity CAO: 10 K | G                |
| Maritime transport IMDG  |   |  |   |                  |                  |
| E 0  |   | - · · ·  |   |                  |                  |
| EmS:<br>Or use <b>Alternative declara</b><br>UN No.: (see below) class (   |   |  | A<br>DR/ IATA E2  |                  |                  |
| Or use Alternative declara   | ation for transport   | 5  |   |                  |                  |
| Or use <b>Alternative declara</b><br>UN No.: (see below) class a   | ation for transporta<br>8 II, Excepted Qua  | ation:   |   |                  |                  |
| Or use Alternative declara<br>UN No.: (see below) class<br>or<br>14.1 UN number: 3264  | ation for transporta<br>8 II, Excepted Qua  | ation:<br>ntities (≤30 mL/∑≤500 mL) = A  | DR/ IATA E2   | ition)           |                  |
| Or use Alternative declara<br>UN No.: (see below) class<br>or<br>14.1 UN number: 3264  | ation for transporta<br>8 II, Excepted Qua  | ation:   | DR/ IATA E2   | ition)           |                  |
| Or use Alternative declara<br>UN No.: (see below) class<br>or<br>14.1 UN number: 3264<br>14.2 UN proper shipping<br>14.3 Class: 8  | ation for transporta<br>8 II, Excepted Qua  | ation:<br>ntities (≤30 mL/∑≤500 mL) = A  | DR/ IATA E2   | ition)           |                  |
| Or use Alternative declara<br>UN No.: (see below) class<br>or<br>14.1 UN number: 3264<br>14.2 UN proper shipping<br>14.3 Class: 8<br>14.4 Packing group:   | ation for transporta<br>8 II, Excepted Qua<br>name: Corrosive I   | ation:<br>ntities (≤30 mL/∑≤500 mL) = A  | DR/ IATA E2   | ition)           |                  |
| Or use Alternative declara<br>UN No.: (see below) class<br>or<br>14.1 UN number: 3264<br>14.2 UN proper shipping<br>14.3 Class: 8  | ation for transporta<br>8 II, Excepted Qua<br>name: Corrosive I<br>II   | ation:<br>ntities (≤30 mL/∑≤500 mL) = A  | DR/ IATA E2   | ition)           |                  |
| Or use Alternative declara<br>UN No.: (see below) class<br>or<br>14.1 UN number: 3264<br>14.2 UN proper shipping<br>14.3 Class: 8<br>14.4 Packing group:<br>Road transport ADR   | ation for transporta<br>8 II, Excepted Qua<br>name: Corrosive I<br>II   | ation:<br>ntities (≤30 mL/∑≤500 mL) = A  | DR/ IATA E2<br>. <b>(sulfuric acid sol</b> u                    | ition)           |                  |
| Or use Alternative declara<br>UN No.: (see below) class<br>or<br>14.1 UN number: 3264<br>14.2 UN proper shipping<br>14.3 Class: 8<br>14.4 Packing group:<br>Road transport ADR<br>Classification code:   | ation for transporta<br>8 II, Excepted Qua<br>name: Corrosive I<br>II<br>C1                                     | ation:<br>ntities (≤30 mL/∑≤500 mL) = A<br>iquid, acidic, inorganic, n.o.s.  | DR/ IATA E2<br>. <b>(sulfuric acid sol</b> u                    | ition)           |                  |
| Or use Alternative declara<br>UN No.: (see below) class a<br>or<br>14.1 UN number: 3264<br>14.2 UN proper shipping<br>14.3 Class: 8<br>14.4 Packing group:<br>Road transport ADR<br>Classification code:<br>Limited Quantity:<br>Excepted Quantity:<br>Air transport IATA DGR  | ation for transporta<br>8 II, Excepted Qua<br>name: Corrosive I<br>II<br>C1<br>1 L<br>E 2                       | ation:<br>ntities (≤30 mL/∑≤500 mL) = A<br>liquid, acidic, inorganic, n.o.s.<br>Tunnel restriction o                         | DR/ IATA E2<br>. <b>(sulfuric acid solu</b><br>code: E          | ition)           |                  |
| Or use Alternative declara<br>UN No.: (see below) class a<br>or<br>14.1 UN number: 3264<br>14.2 UN proper shipping<br>14.3 Class: 8<br>14.4 Packing group:<br>Road transport ADR<br>Classification code:<br>Limited Quantity:<br>Excepted Quantity:  | ation for transporta<br>8 II, Excepted Qua<br>name: Corrosive I<br>II<br>C1<br>1 L<br>E 2<br>PAX: 85            | ation:<br>ntities (≤30 mL/∑≤500 mL) = A<br>liquid, acidic, inorganic, n.o.s.<br>Tunnel restriction o<br>51 max. quantity PAX | DR/IATA E2<br>. <b>(sulfuric acid solu</b><br>code: E<br>:: 1 L | ition)           |                  |
| Or use Alternative declara<br>UN No.: (see below) class<br>or<br>14.1 UN number: 3264<br>14.2 UN proper shipping<br>14.3 Class: 8<br>14.4 Packing group:<br>Road transport ADR<br>Classification code:<br>Limited Quantity:<br>Excepted Quantity:<br>Air transport IATA DGR<br>Limited Quantity:                         | ation for transporta<br>8 II, Excepted Qua<br>name: Corrosive I<br>II<br>C1<br>1 L<br>E 2<br>PAX: 85<br>CAO: 85 | ation:<br>ntities (≤30 mL/∑≤500 mL) = A<br>liquid, acidic, inorganic, n.o.s.<br>Tunnel restriction o<br>51 max. quantity PAX | DR/IATA E2<br>. <b>(sulfuric acid solu</b><br>code: E<br>:: 1 L | ition)           |                  |
| Or use Alternative declara<br>UN No.: (see below) class a<br>or<br>14.1 UN number: 3264<br>14.2 UN proper shipping<br>14.3 Class: 8<br>14.4 Packing group:<br>Road transport ADR<br>Classification code:<br>Limited Quantity:<br>Excepted Quantity:<br>Air transport IATA DGR<br>Limited Quantity:<br>Excepted Quantity: | ation for transporta<br>8 II, Excepted Qua<br>name: Corrosive I<br>II<br>C1<br>1 L<br>E 2<br>PAX: 85            | ation:<br>ntities (≤30 mL/∑≤500 mL) = A<br>liquid, acidic, inorganic, n.o.s.<br>Tunnel restriction o<br>51 max. quantity PAX | DR/IATA E2<br>. <b>(sulfuric acid solu</b><br>code: E<br>:: 1 L | ition)           |                  |
| Or use Alternative declara<br>UN No.: (see below) class<br>or<br>14.1 UN number: 3264<br>14.2 UN proper shipping<br>14.3 Class: 8<br>14.4 Packing group:<br>Road transport ADR<br>Classification code:<br>Limited Quantity:<br>Excepted Quantity:<br>Air transport IATA DGR<br>Limited Quantity:                         | ation for transporta<br>8 II, Excepted Qua<br>name: Corrosive I<br>II<br>C1<br>1 L<br>E 2<br>PAX: 85<br>CAO: 85 | ation:<br>ntities (≤30 mL/∑≤500 mL) = A<br>liquid, acidic, inorganic, n.o.s.<br>Tunnel restriction o<br>51 max. quantity PAX | DR/IATA E2<br>. <b>(sulfuric acid solu</b><br>code: E<br>:: 1 L | ition)           |                  |

### 14.5 Environmental hazards

none, contains only small quantities of hazardous substances, contains only small amounts of these 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 If necessary, observe other country-specific regulations.

## 15.2 Chemical safety assessment

### not necessary for these small amounts



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| SECT     | ION 16: Other inf  | formation   |                   |  |
| 16.1     | • ·  | ed to the last version<br>19 and 2.2.2.2 following changes were applied: - 17 substance data corrected  |                   |  |
| 16.2     | List of H and P ph   | rases   |                   |  |
| 16.2.1   | List of relevant H<br>H302<br>H312<br>H314<br>H317<br>H332<br>H373<br>H412   | phrases<br>Harmful if swallowed.<br>Harmful in contact with skin.<br>Causes severe skin burns and eye damage.<br>May cause an allergic skin reaction.<br>Harmful if inhaled.<br>May cause damage to organs through prolonged or repeated exposure.<br>Harmful to aquatic life with long lasting effects.  |                   |  |
| 16.2.2   | List of relevant P<br>P260sh<br>P264<br>P280sh<br>P303+361+353<br>P305+351+338<br>P310<br>P333+313<br>P405<br>P501 | phrases<br>Do not breathe dust/vapours.<br>Wash hands thoroughly after handling.<br>Wear protective gloves/eye protection.<br>IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse sk<br>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact<br>do. Continue rinsing.<br>Immediately call a POISON CENTER/doctor.<br>If skin irritation or rash occurs: Get medical advice/attention.<br>Store locked up.<br>Dispose of contents/container to regulated waste treatment. |                   |  |

Only for professional user.

Look about employee restrictions for young people (f. ex. 94/33/EC or DE § 22 JArbSchG)! Look about employee restrictions for pregnant women and nursing women (f.ex. 92/85/EEC or for DE §§ 11-13 MuSchG 2017)! An individual package of this product or test kit has a moderate hazardous potential.

#### 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) 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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### 16.6 Legend / Abbreviations

| 2 | Legena / A     | DDreviations  |
|---|----------------|---|
|   | acc:           | according   |
|   | ADR:           | Convention concerning the International Carriage of Dangerous Goods by Road |
|   | Act:           | acute   |
|   | BAT:           | biological workplace tolerance value  |
|   | CAO:           | Cargo Aircraft Only   |
|   |                | carcinogen  |
|   | Carc:          | 0   |
|   | 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  |
|   | 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   | s 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 pr  |   |
|   | PNEC:          | Predicted No Effected Concentration   |
|   | PROC 15:       | Process category 'for laboratory use'                                       |
|   | PRTR:          | Law for PRTR and Promotion of Chemical Management (Jp)                      |
|   |                | <b>S</b> (1)  |
|   | 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   |
|   |                | ,   |
|   |                |   |



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## according to Regulations REACh 1907/2006/EC

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| Printing date: 27.09.2023 | Date of issue: 26.09.2022 | Version: 2.2.2.19 |

| 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)                      |
| 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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