CHEREY-NAGE



Safety Data Sheet

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

| REF: 9 | 920080 | VISOCOLOR HE Phosphate (DEV) | Page: 1/11 |
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| | | | |
| | | | |
| SEC | FION 1: Identification of the | e substance/mixture and of the company | |
| 1.1 | Product identifier | | |
| | REF | 920080 | |
| | no data available | VISOCOLOR HE Phosphate (DEV) | |
| | REACH Registration number(s): | see SECTION 3.1/3.2 or | |
| | A registration number for the sub | stance(s) does not exist because the annual tonnage does not require registration or | |
| | the substance or its use is exclud | ed from registration. | |
| | 1 x 5 a PO + 1 | | |

1 x 5 g PO 4 -1 1 x 80 mL PO 4 -2

UFI: 9CST-D341-P201-NKFQ

1.2 Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses

Product for analytical use.

Exposure Scenario Classification according REACh, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0 The exposure scenario is integrated into sections 1-16. Uses advised against

not described

1.3 Details of the supplier of the safety data sheet

Manufactured by:

MACHEREY-NAGEL GmbH & Co. KG Valencienner Str. 11, 52355 Düren, Germany Phone: +49 2421 969 0

1.4 **Emergency telephone number**

Outside Germany (DE): Call your regional Poisons Information Service or call local Life Savingi Service mbH + Co KG DE: Gemeinsames Giftinformationszentrum (GGIZ) 99089 Erfurt tel. +49 361 730 730. <https://www.cot/ Schoemperlenstr. 3-5

You find our current versions of SDS in Internet:

<http://www.mn-net.com/SDS< Karlsruhe, Germany sicherheit@carlroth.de

E-mail: sds@mn-net.com (msds@mn-net.com)

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. 1B |

2.1 Classification of the substance or mixture according to Regulation (EC) 1272/2008 80 mL PO 4 -2

| | GHS05 |
|-----------------------|---------------------------|
| Signal word | DANGER |
| Hazard identification | Hazard classes/categories |
| H314 | Skin Corr. 1B |



MACHEREY-NAGEL GmbH & Co. KG Valencienner Str. 11 52355 Düren · Germany 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



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5 g PO 4 -1

Do not need labelling as hazardous

No hazard class

Signal word

.....

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).

80 mL PO 4 -2



Signal word: DANGER H314 Causes severe skin burns and eye damage. P260sh, P280sh, P303+361+353, P305+351+338, P310 Do not breathe dust/vapours.Wear protective gloves/eye protection.IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.Immediately call a POISON CENTER/doctor.

5 g PO 4 -1

Do not need labelling as hazardous Signal word: -

Label elements of the complete product



Signal word: DANGER H314 Causes severe skin burns and eye damage. P260sh, P280sh, P303+361+353, P305+351+338, P310 Do not breathe dust/vapours.Wear protective gloves/eye protection.IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.Immediately call a POISON CENTER/doctor.

2.3 Other hazards

Possible hazards from physicochemical properties

Generally in the case of pH values are less than 2 or higher than 11.5 then it is corrosive.

Information pertaining to particular risks to human and possible symptoms

Causes varying degrees of acid burns on the skin, to the eyes and to the mucous membranes and wounds which do not heal quickly depending on the concentration, temperature and the exposure time. Vapours especially which steam from hot liquids and mist can have a severe irritant effect upon the eyes and the respiratory organs.

Information pertaining to particular risks to the environment

 Avoid contact of substance/mixture to environment.

 PBT:
 not applicable

 vPvB:
 not applicable

Possible endocrine disrupting effects no data available



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SECTION 3: Composition / information on ingredients

3.1 Substances or 3.2 Mixtures

| 80 mL F | 80 mL PO 4 -2 | | | | |
|----------|---|---|--|--|--|
| | Substance name: CAS No.: | ammonium heptamolybdate 12054-85-2 | | | |
| | Substance rating: Formula: Pseudonym (de): REACH Reg. No.: EC No.: Concentration: The classification refers to acc. CLP (GHS): | No criteria for classification or naming of chemical not required. H 24 Mo 7 N 6 O 24 Ammoniummolybdat 01-2119498057-28-xxxx 234-722-4 2 - 5 % Correlation factor: x 0.58 (= %Mo) the weight percentage of the metal (according to CLP regulation 2008/1272/EG Annex VI, 1.1.3.2 Note 1) The criteria for classification are not fulfilled. | | | |
| | Substance name: CAS No.: | sulfuric acid 7664-93-9 | | | |
| | Substance rating: Formula: REACH Reg. No.: EC No.: Specific concentratio Concentration: acc. CLP (GHS): | 30 - <51 % | | | |
| 5 g PO . | 4 -1 Substance name: CAS No.: | <i>L</i> (+)-ascorbic acid 50-81-7 | | | |
| | Substance rating: Formula: Pseudonym (de): REACH Reg. No.: EC No.: Concentration: acc. CLP (GHS): | No criteria for classification or naming of chemical not required. C 6 H 8 O 6 Vitamin C exempt, Annex IV 200-066-2 90 - <100 % The criteria for classification are not fulfilled. | | | |
| marks | | | | | |

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.



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FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com

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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. ---

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

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.

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):
 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)



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Product for analytical use.

SECTION 8: Exposure controls /personal protection

8.1 Control parameters

| | 80 mL PO 4 -2 | | | | |
|-----|---|---|---|--|--|
| | Chemical: ammonium he TRGS 900 (DE): | ptamolybdate [Mo] 5 E mg/m ³ E/e respirable | CAS No.: 12054-85-2 | | |
| | SUVA(CH) MAK value: | [Mo] 5 e mg/m³ | | | |
| | Chemical: sulfuric acid DNEL: DNEL = Derived No-Effect | [inh] 50 μg/m³ Level (for workers) | CAS No.: 7664-93-9 | | |
| | PNEC (fresh water) : PNEC = Predicted No Effe | 2.5 µg/L | | | |
| | EU value: TRGS 900 (DE): | 0.1 e mg/m ³ 0.1 E mg/m ³ E/e respirable | | | |
| | Short-term exposure factor: skin resorptive (H), respira | 1 (I), Y tory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely e | excluded / (Y) certainly excluded | | |
| | SUVA(CH) MAK value: NIOSH: [TWA] Time-weighted aver | 0,1 e mg/m ³ NTP Report on Carcinogens (RoC) List Yes (Known to be a age to a reference period of 8 hours, [STEL] Short-term exposure limit rela | a human carcinogen); [TWA] 1 mg/m ³ ted to a 15-minute period | | |
| | OSHA: | [TWA] 1 mg/m³ | | | |
| | 5 g PO ₄ -1 Chemical: <i>L(+)-ascorbic</i> | acid | CAS No.: 50-81-7 | | |
| Ex | posure controls | | | | |
| Goc | | ystem in the room, floor resistant to chemicals with floor drai tained at the workplace. | nage and washing facilities. The highest | | |
| | Respiratory protection No additional recommendations. | | | | |
| | 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. | | | | |
| | Eye / Face Protection Yes, safety glasses according | g EN 166 with integrated side shields or wrap-around protec | ction or face protection. | | |
| | Skin protection Recommended to avoid cloth | ning damage, and to avoid contamination with these hazards | 5. | | |
| | Personal hygiene | | | | |

8.2.5 Personal hygiene

8.2

8.2.1

8.2.2

8.2.3

8.2.4

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

80 mL PO ₄ -2

- a) State of aggregation: b) Colour: c) Odor:
- c) Odor: d) Melting point:
- e) Boiling point:
- f) Flammability:
- g) Explosive limits (lower / upper):
- h) Flash point:



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| | | | |
| i) Flashing temperature: | no data available | | |
| j) Decomposition temperature: | no data available | | |
| k) pH value: | 0-1 | | |
| Kinematic viscosity: | no data available | | |
| m) Solubility in water: | 0-100 % | | |
| n) Dispersion coefficient (o/w): | no data available | | |
| o) Vapour pressure (20°C): | no data available | | |
| p) Specific gravity: | 1,32 g/cm ³ | | |
| q) Relative vapour density _(air=1) : | no data available | | |
| r) Particle size: | no data available | | |
| 5 g PO 4 -1 | | | |
| a) State of aggregation: | | | |
| b) Colour: | colourless | | |
| c) Odor: | red | | |
| d) Melting point: | 191 instable °C | | |
| e) Boiling point: | no data available | | |
| f) Flammability: | no data available | | |
| g) Explosive limits (lower / upper): | no data available | | |
| h) Flash point: i) Flashing temperature: | no data available 380 °C | | |
| i) Decomposition temperature: | no data available | | |
| k) pH value: | 6 | | |
| I) Kinematic viscosity: | no data available | | |
| m) Solubility in water: | 0-25 % | | |
| n) Dispersion coefficient (o/w): | no data available | | |
| o) Vapour pressure (20°C): | no data available | | |
| p) Specific gravity: | 1,65 sol. g/cm ³ | | |
| q) Relative vapour density _(air=1) : | no data available | | |
| r) Particle size: | no data available | | |

9.2 Other information

No data is available for the other parameters for the mixtures, since no registration and no chemical safety report is required. **Properties relevant to substance groups** Substances are highly corrosive.

SECTION 10: Stability and reactivity

10.1 Reactivity

no further data available.

- 10.2 Chemical stability no known instability.
- 10.3 Possibility of hazardous reactions

Can react violently with organic material. No further data available.

- **10.4** Conditions to avoid No more required.
- 10.5 Incompatible materials

no additional data available

10.6 Hazardous decomposition products

In the original package all parts/all reagents are safety and separated stored. Decompositions are not observed during the expiration period under recommended conditions.



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CAS No.: 12054-85-2

CAS No.: 50-81-7

CAS No.: 12054-85-2

CAS No.: 7664-93-9

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SECTION 11: Toxicological information

11.1 Information on the hazard classes according regulation (EC) 1272/2008

Following information is valid for pure substances. Quantitative data on the toxicity of this product are not available.

| 80 mL PO ₄ -2 | | |
|---------------------------|-------------------------|--|
| Chemical: | ammonium heptamolybdate | |
| TSCA Inventory: | listed (CAS 11098-84-3) | |
| Japan ISHL: | listed ≥1,0%/≥0,1%, | |
| Korea Exist Chem.Inv | ventory: not listed | |
| LD50 _{orl rat} : | 2000-5000 mg/kg | |
| LD50 ihl rat : | 1,930-5,840 mg/L/4H | |
| | | |

Kat 4

| Chemical: s | ulfuric acid | CAS No.: 7664-93-9 | | |
|---|---------------------|---|--|--|
| TSCA Inventory: | listed | California Proposition 65 List: not listed | | |
| ACGIH: | 1 ppm | | | |
| Exposure Routes: | inhalation, ing | estion, skin and/or eye contact | | |
| Target Organs: | Eyes, skin, re | spiratory system, teeth | | |
| Symptoms: | irritation eyes | skin, nose, throat; pulmonary edema, bronchitis; emphysema; conjunctivitis; stomatis; | | |
| dental erosion; eye, skin burns; dermatitis | | | | |
| Australia NICNAS: | not listed | Canada CEPA 1999: DSL Yes | | |
| Japan CSCL/PRTR: | | an PDSCL: Deleterious Substance | | |
| Japan ISHL: | listed ≥1,0%/≥ | 1,0%, Article 57-2 (SDS required) | | |
| South Korea TCCA: | Accident Prec | aution Chemical Yes | | |
| Korea Exist.Chem.Inve | ntory: KE-32570, >1 | 0% Toxic 97-1-405, Acc. Precaution Chem. | | |
| LD50 orl rat : | 2140 mg/kg | | | |
| LC50 ihl mus : | 0,85 mg/L/4H | | | |
| | | | | |

TRGS 905 (DE):

5 g PO 4 -1

Chemical:L(+)-ascorbic acidTSCA Inventory:listedKorea Exist.Chem.Inventory:KE-01947LD50 orl rat:11900 mg/kg

11.2 Other hazards

Possible endocrine disrupting effects no data available

Other information

no additional data available

SECTION 12: Ecological information

12.1 Toxicity

Following information is valid for pure substances.

80 mL PO 4 -2Chemical:ammonium heptamolybdateWater hazard class (DE):1WGK No.: 0637Storage class (VCI):12-13

Chemical: sulfuric acid PNEC (fresh water) : 2.5 µg/L PNEC = Predicted No Effected Concentration

 LC50 fish/96h :
 [NOEC, 65d] 25 µg/L

 EC50 daphnia/48h :
 100 mg/L

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

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

 Storage class (VCI):
 8 B

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| | 5 g PO 4 -1 Chemical: <i>L(+)-ascorbic a</i> Water hazard class (DE): Storage class (VCI): | <i>acid</i> 1 WGK No.: 0737 13 | CAS No.: 50-81-7 |
| 12.2 | Persistence and degradability not necessary | | |
| 12.3 | Bioaccumulative potential not necessary | | |
| 12.4 | Mobility in soil not necessary | | |
| 12.5 | Results of PBT and vPvB assessment This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher | | |
| 12.6 | Endocrine disrupting properties no data available | | |
| 12.7 | Other adverse effects no additional data available | | |
| SECT | ION 13: Disposal considera | tions | |
| | lease observe local regulations for collection formation on laboratory waste disposal (was | | waste disposal company, where you will obtain |

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 Tunnel restriction code: Classification code: M11 Е acc. ADR 3.3.1/251: see LQ in Alternative declaration for transportation Limited Quantity: Air transport ICAO PAX: 960 10 KG max. weight PAX: CAO: 960 max. weight CAO: 10 KG Maritime transport IMDG F-A, S-P EmS: Storage category: А

Or use Alternative declaration for transportation:

14.1 UN number: 3264 14.2 UN proper shipping name: Corrosive liquid, acidic, inorganic, n.o.s. (sulfuric acid solution) 14.3 Class: 14.4 Packing group: 8 Road transport ADR Classification code: C1 Limited Quantity: 1 L Tunnel restriction code: F Excepted Quantity: E 2 Air transport ICAO Limited Quantity: LQ 22 Excepted Quantity: E 2 PAX: 851 max. weight PAX: 1 L CAO: 855 max. weight CAO: 30 L Maritime transport IMDG EmS: F-A, S-B Storage category: В



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14.5 Environmental hazards

none, contains only small quantities of hazardous substances

14.6 Special precautions for user not necessary

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code Not applicable.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Dangerous Substances Protection Act (DE: Chemikaliengesetz - ChemG), Aug 2013, Stand: Okt 2020 Ordinance on protection against dangerous substances (E: Gefahrstoffverordnung - GefStoffV), Nov 2010, Stand: Mrz 2017 TRGS 201, Classification and labeling of activities involving hazardous substances, Feb 2017

TRGS 220, National aspects when preparing safety data sheets, Jan 2017

TRGS 400, Risk assessment for activities involving hazardous substances, Jul 2017

TRGS 401, Skin contact hazard - identification, assessment, action, Jun 2008, status: Feb 2011

BekGS 408, Application of the GefStoffV and the TRGS with the entry into force of the CLP regulation, December 2009, status: Jan

2012 TRGS 500, Protective measures, Mai 2008

TRGS 510, Storage of hazardous substances in portable containers from March 2013, status: Oct 2015

Chapter 4, Measures when storing hazardous substances up to 50 kg (small quantity regulation)

Wasserhaushaltsgesetz - WHG, Section 3 Handling substances hazardous to water, Jul 2009, status: Aug 2016

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

15.2 Chemical safety assessment

not necessary for these small amounts

SECTION 16: Other information

16.1 Changes compared to the last version

Between versions 2.2.2.10 and 2.2.2.2 following changes were applied: - 8 substance data corrected

16.2 List of H and P phrases

16.2.1 List of relevant H phrases

Causes severe skin burns and eye damage. H314

16.2.2 List of relevant P phrases

| P260sh | Do not breathe dust/vapours. |
|--------------|--|
| P280sh | Wear protective gloves/eye protection. |
| P303+361+353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. |
| P305+351+338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to |
| | do. Continue rinsing. |
| P310 | Immediately call a POISON CENTER/doctor. |
| | |

16.3 Recommended restriction on use

Only for professional user.

Look about employee restrictions for young people (f. ex. 94/33/EC or DE § 22 JArbSchG)! Look about employee restrictions for pregnant women and nursing women (f.ex. 92/85/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 dangerous working materials

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

SUVA .CH, limit values in the air at work 2009, revised on 01/2009 Regulation 790/2009/EU Adaptation of the CLP Regulation 1272/2008/EU to technical and scientific progress

Regulation 453/2010/EU REACH – REQUIREMENTS FOR THE PREPARATION OF SAFETY DATA SHEET

Regulation 487/2013/EU, 4. Adaptation of the CLP regulation to technical and scientific progress

- Regulation 669/2018/EU, 4. Adaptation of the CLP regulation to technical and scientific progress
- Regulation 1480/2018/EU, 4. Adaptation of the CLP regulation to technical and scientific progress
- TRGS 900, German engineering rules on limit values in the air at work, as of 03/2019
- Regulation 878/2020/EU

Regulation 849/2021/EU, 4. Adaptation of the CLP regulation to technical and scientific progress



MACHEREY-NAGEL GmbH & Co. KG Valencienner Str. 11 52355 Düren · Germany 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



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

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Revisions/Updates

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2017-11 adaptation of the ECHA registration dossier 2022-11 Adjustment of Regulation 878/2020/EU

16.5 Further information

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16.6 Legend / Abbreviations

| acc: | according |
|---|---|
| ADR: | Convention concerning the International Carriage of Dangerous Goods by Road |
| Act: | acute |
| BAT: | biological workplace tolerance value |
| CAO: | Cargo Aircraft Only |
| Carc: | carcinogen |
| CAS: | Chemical Abstracts Service |
| CLP: | Classification, Labelling and Packaging regulation |
| CMR: | carcinogen, mutagen, reproduction toxic |
| Corr: | corrosive |
| COD: CSCL: | chemical oxigen demand Chemical Substance Control Law (Jp) |
| Dam: | |
| DAM. DNEL: | damage 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 idu: MAK: | |
| Met: | maximum workplace concentration Metall |
| mus: | mouse |
| Muta: | mutagen |
| NIOSH: | National Institute for Occupational Safety and Health (US) |
| NRD: | Non-rapidly degradable |
| onchorhynch | |
| 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 Effected Concentration |
| PROC 15: | Process category 'for laboratory use' |
| PRTR: | Law for PRTR and Promotion of Chemical Management (Jp) |
| | |



 MACHEREY-NAGEL GmbH & Co. KG
 DE
 Tel.: +49 24 21 969-0
 info@mn-net.com

 Valencienner Str. 11
 CH
 Tel.: +41 62 388 55 00
 sales-ch@mn-net.com

 52355 Düren · Germany
 FR
 Tel.: +33 388 68 22 68
 sales-fr@mn-net.com

 www.mn-net.com
 US
 Tel.: +1 888 321 62 24
 sales-us@mn-net.com



Safety Data Sheet

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| PVC: quail: rat: rbt: RD: REACh: REF: Reg.No.: Repr: Resp: RIP: scu: SDS: Sens: STEL: STOT: SVHC: t/a: TCCA: | polyvinyl chloride bird, quail rat rabbit rapidly degradable repeated Registration, Evaluation, Authorisation and Restriction of Chemicals item number, reference number rRegistration number harmful to reproduction respiratory REACH Implementations Projects sub cutan safety data sheet sensitisation short term exposure limit Specific Target Organ Toxicity Substance of Very High Concern tons per year Toxic Chemicals Control Act (S. Korea) |
|--|--|
| | , , |
| | |
| 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.



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

Software: M2 V 6.0.20.60