

# **Safety Data Sheet**

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

VISOCOLOR alpha Chlorine Page: 1/11 Date of issue: 26.09.2022 Printing date: 12.01.2023 Version: 2.2.2.16

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

1.1 **Product identifier** 

> REF 935019

Product name VISOCOLOR alpha Chlorine

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 25 mL Cl 2-2

UFI: CD8U-X3WH-820N-DAF0

1 x 18 mL Cl 2-1

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

Relevant identified uses

Product for analytical use.

Exposure Scenario Classification according REACh, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0

The exposure scenario is integrated into sections 1-16.

Uses advised against

not described

#### 1.3 Details of the supplier of the safety data sheet

Manufactured by:

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

Phone: +49 2421 969 0 E-mail: sds@mn-net.com (msds@mn-net.com)

#### 1.4 **Emergency telephone number**

Outside Germany (DE): Call your regional Poisons Information Service or call local Life Saving Service. DE: Gemeinsames Giftinformationszentrum (GGIZ)

99089 Erfurt tel. +49 361 730 730, < https://www.ggiz-erfurt.de>

You find our current versions of SDS in Internet:

<a href="http://www.mn-net.com/SDS">http://www.mn-net.com/SDS</a>

### **SECTION 2: Hazard identification**

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





GHS07

GHS08

**DANGER** Signal word

Hazard identification Hazard classes/categories

H315 Skin Irrit. 2 H319 Eye Irrit. 2 H360FD Repr. 1B

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

25 mL Cl 2 -2





GHS08

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Signal word DANGER

Hazard identification

Hazard classes/categories

H315

H319

H360FD

Skin Irrit. 2

Eye Irrit. 2

Repr. 1B

18 mL Cl 2 -1

Do not need labelling as hazardous

Signal word

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 identificator(s) (EU 1272/2008 Annex I - 1.5.1.2). 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).

25 mL Cl 2 -2





GHS07

GHS08

Signal word: DANGER

H360FD

May damage fertility. May damage the unborn child.

P201, P280sh, P308+313, P405

Obtain special instructions before use. Wear protective gloves/eye protection. IF exposed or concerned: Get medical advice/attention. Store locked up.

18 mL Cl <sub>2</sub> -1

Do not need labelling as hazardous Signal word: -

### Label elements of the complete product





GHS07

GHS08

Signal word: DANGER

H360FD

May damage fertility. May damage the unborn child.

P201, P280sh, P308+313, P405

Obtain special instructions before use. Wear protective gloves/eye protection. IF exposed or concerned: Get medical advice/attention. Store locked up.

### 2.3 Other hazards

Possible hazards from physicochemical properties

In the case of pH values are less than 5 or higher than 9 then it is irritant.

Information pertaining to particular risks to human and possible symptoms

May damage fertility. May damage the unborn child.

Information pertaining to particular risks to the environment

PBT: not applicable vPvB: not applicable



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Possible endocrine disrupting effects

no data available

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

### 3.1 Substances or 3.2 Mixtures

25 mL Cl 2 -2

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

Substance rating: H314, Skin Corr. 1B Formula: H 2 SO 4 (•H 2 O) 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: 5 - <15 %

acc. CLP (GHS): H315, Skin Irrit. 2, H319, Eye Irrit. 2

Substance name: boric acid CAS No.: boric acid 10043-35-3

Substance rating: H360FD, Repr. 1B Formula: H 3 BO 3

Pseudonym (de): Orthoborsäure, E284 REACH Reg. No.: 01-2119486683-25-0024

SVHC listed: listed (18/06/2010) Cand. Lst. REACH Art59(10)

EC No.: 233-139-2 Indice No.: 005-007-00-2

 $\begin{array}{ll} \mbox{Concentration:} & 0.5 \mbox{ - <} 5.5 \mbox{ \%} \\ \mbox{acc. CLP (GHS):} & \mbox{H360FD, Repr. 1B} \\ \end{array}$ 

Substance name: N,N-Diethyl-1,4-phenylene diammonium sulfate

CAS No.: 6283-63-2

Substance rating: H302, Acute Tox. 4 oral, H312, Acute Tox. 4 derm.

Formula: C 10 H 16 N 2 • H 2 O

Pseudonym (de): DPD, 4-Amino-N,N-diethylanilin

EC No.: 228-500-6 Indice No.: 612-080-00-X

Concentration: 0,1 - <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.

4.1.1 After SKIN Contact

Remove contaminated clothing. Rinse the affected skin or mucous membrane thoroughly under running water. (If possible) use soap.

4.1.2 After EYE Contact

After contact with the eyes rinse thoroughly under running water with the eyelid wide open with eye washing bottle, eye douche or running water (protect intact eye).

4.1.3 After INHALATION of vapours

After inhalation of foam or vapour fresh air should be inhaled. Keep airways free. ---

4.1.4 After ORAL Intake



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After oral intake lots of water should be drunk after it has been ingested.

### 4.2 Most important symptoms and effects, both acute and delayed

CMR Effekte:

### 4.3 Indication of any immediate medical attention and special treatment needed

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## **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

No, for listed product. Product package burns like paper or plastic.

### 5.4 Additional information

## **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapours. Wear suitable protective gloves (see 8.2.2). 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

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

## **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 . Products which are also classified as toxic must be kept under lock and key. 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, so that they are not immediately accessible to outside parties.

### 7.3 Specific end use(s)

Product for analytical use.



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## CHEREY-NAGEI



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## **SECTION 8: Exposure controls /personal protection**

#### 8.1 Control parameters

25 mL Cl 2 -2

Chemical: sulfuric acid CAS No.: 7664-93-9

[inh] 50 µg/m<sup>3</sup> DNEL: DNEL = Derived No-Effect Level (for workers)

PNEC (fresh water) : 2.5 µg/L PNEC = Predicted No Effected Concentration EU value: 0.1 e mg/m<sup>3</sup> 0.1 E mg/m<sup>3</sup> TRGS 900 (DE): 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

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/m<sup>3</sup>

CAS No.: 10043-35-3 Chemical: boric acid

DNEL: [derm] 392 mg/kg bw/day; [inh] 8.3 mg/m<sup>3</sup> DNEL = Derived No-Effect Level (for workers)

PNEC (fresh water): 2.9 mg/L PNEC = Predicted No Effected Concentration 0.5 E mg/m<sup>3</sup> TRGS 900 (DE):

Short-term exposure factor: 2 (I), Y

skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value: [Bor][MAK] 1,8e/[STEL] 1,8e mg/m<sup>3</sup>

not listed NIOSH:

[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

Chemical: N,N-Diethyl-1,4-phenylene diammonium sulfate CAS No.: 6283-63-2

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

#### 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.

#### Skin protection / Hand protection 8.2.2

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

Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection.

#### 8.2.4 Skin protection

Recommended to avoid contamination with these hazards.

### 8.2.5

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.



Software: M2 V 6.0.28.156

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## **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

25 mL Cl 2 -2 a) State of aggregation: liquid b) Colour: rose 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 I) Kinematic viscosity: no data available m) Solubility in water: no data available n) Dispersion coefficient <sub>(o/w)</sub>: no data available o) Vapour pressure (20°C): no data available p) Specific gravity: 1.1 a/cm<sup>3</sup> no data available q) Relative vapour density (air=1): r) Particle size: no data available

### 9.2 Other information

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

# **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

no further data available.

## 10.2 Chemical stability

no known instability.

### 10.3 Possibility of hazardous reactions

No further data available.

### 10.4 Conditions to avoid

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.

25 mL Cl 2 -2

Chemical: sulfuric acid CAS No.: 7664-93-9

TSCA Inventory: listed California Proposition 65 List: not listed

ACGIH: 1 ppm

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

Target Organs: Eyes, skin, respiratory system, 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: not listed, Japan PDSCL: Deleterious Substance



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## CHEREY-NAGE



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> Japan ISHL: listed ≥1,0%/≥1,0%, Article 57-2 (SDS required)

South Korea TCCA: Accident Precaution Chemical Yes

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

2140 mg/kg LD50 orl rat: LC50 ihl mus: 0,85 mg/L/4H

TRGS 905 (DE): Kat 4

Chemical: boric acid CAS No.: 10043-35-3

TSCA Inventory: California Proposition 65 List: not listed listed Canada CEPA 1999: DSL yes Australia NICNAS: not listed

PRTR: ≥1,0%B class I, Japan PDSCL: not listed Japan CSCL/PRTR:

Japan ISHL: not listed South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-03499 LD50 orl rat: > 3765 mg/kg LC50 ihl rat: 2,12 mg/L/4H

Carcinogenic Effects: May damage fertility. May damage the unborn child.

EU carcinogen: R<sub>D</sub>1B, R<sub>F</sub>1B R E 2, R F 2 TRGS 905 (DE):

Chemical: N,N-Diethyl-1,4-phenylene diammonium sulfate CAS No.: 6283-63-2

TSCA Inventory: listed (CAS 6065-27-6)California Proposition 65 List: not listed Australia NICNAS: Canada CEPA 1999: not listed

Japan CSCL/PRTR: not listed, Japan PDSCL: not listed

Japan ISHL: not listed South Korea TCCA: not listed 497 mg/kg LD50 orl rat:

#### 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.

25 mL Cl 2 -2

sulfuric acid CAS No. 7664-93-9 Chemical:

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

LC50 fish/96h: [NOEC, 65d] 25 µg/L EC50 daphnia/48h: 100 mg/L EC10 pseudomonas putita/16h [72h] 100 mg/L WGK No.: 0182

Water hazard class (DE): Storage class (VCI): 8 B

boric acid CAS No.: 10043-35-3 Chemical:

PNEC (fresh water):
PNEC = Predicted No Effected Concentration 2.9 mg/L

LC50 fish/96h: [4d] 79.7 mg/L EC50 daphnia/48h: 91-165 mg/L IC50 scenedesmus quadricauda/72h [72h] 52.4 mg/L [EC10] 10 mg/L EC10 pseudomonas putita/16h

WGK No.: 0315 Water hazard class (DE): Dispersion coefficient (o/w): -1,09

Storage class (VCI): 6.1 D



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> CAS No.: 6283-63-2 Chemical: N,N-Diethyl-1,4-phenylene diammonium sulfate

Water hazard class (DE): 12-13 Storage class (VCI):

#### 12.2 Persistence and degradability

not necessary

#### 12.3 Bioaccumulative potential

not necessary

#### 12.4 Mobility in soil

not necessary

#### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher

#### 12.6 **Endocrine disrupting properties**

no data available

#### 12.7 Other adverse effects

no additional data available

## **SECTION 13: Disposal considerations**

Please observe local regulations for collection and disposal of hazardous waste and contact waste disposal company, where you will obtain information on laboratory waste disposal (waste code number 16 05 06). Close container tightly.

#### 13.1 Waste treatment methods

Normally it is possible to empty small amounts (diluted!) into drains.

Dispose of contents/container to regulated waste treatment.

## **SECTION 14: Transport information**

14.1 - 14.4: No dangerous goods according the transport regulations

#### 14.5 **Environmental hazards**

none, contains only small quantities of hazardous substances

#### 14.6 Special precautions for user

not necessary

#### 14.7 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

Chemicals Prohibition Ordinance - (DE: ChemVerbotsV), aktualisiert Jan 2017

Dangerous Substances Protection Act (DE: Chemikaliengesetz - ChemG), Aug 2013, Stand: Okt 2020

Ordinance on protection against dangerous substances (E: Gefahrstoffverordnung - GefStoffV), Nov 2010, Stand: Mrz 2017

TRGS 201, Classification and labeling of activities involving hazardous substances, Feb 2017

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

TRGS 400, Risk assessment for activities involving hazardous substances, Jul 2017
BekGS 408, Application of the GefStoffV and the TRGS with the entry into force of the CLP regulation, December 2009, status: Jan

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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### **SECTION 16: Other information**

#### 16.1 Changes compared to the last version

Between versions 2.2.2.16 and 2.2.2.2 following changes were applied: - 14 substance data corrected

#### 16.2 List of H and P phrases

#### 16.2.1 List of relevant H phrases

H315 Causes skin irritation. Causes serious eye irritation. H319

H360FD May damage fertility. May damage the unborn child.

#### 16.2.2 List of relevant P phrases

P201 Obtain special instructions before use. Wear protective gloves/eye protection. P280sh

P308+313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

#### 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/EÉC 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

Directive 2004/37/EC on the protection of workers from the risk of carcinogens or mutagens at workSUVA .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)

TRGS 905, German rules of technology for carcinogenic and mutagenic substances, as of March 18, 2016
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/EÚ, 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)

### revisions/updates

2014-02 Corrected structure of the sections according to Regulation 453/2010/EU, if necessary Reason for revision:

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

according acc:

ADR: Convention concerning the International Carriage of Dangerous Goods by Road

Act:

BAT: biological workplace tolerance value

CAO: Cargo Aircraft Only



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# **Safety Data Sheet**

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

REF: 935019 VISOCOLOR alpha Chlorine Page: 10/11 Date of issue: 26.09.2022 Printing date: 12.01.2023 Version: 2.2.2.16

carcinogen Carc:

Chemical Abstracts Service CAS:

CLP: Classification, Labelling and Packaging regulation

CMR: carcinogen, mutagen, reproduction toxic

Corr: corrosive

COD. chemical oxigen demand

Chemical Substance Control Law (Jp) CSCL:

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 (not spezified) fish:

Global Harmonized System of Classification and Labeling of Chemicals GHS:

gpg:

ICAO: International Civil Aviation Organization

ihl:

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: fisch, ide, orfe MAK: maximum workplace concentration

Met: Metall mus: mouse mutagen Muta:

NIOSH: National Institute for Occupational Safety and Health (US)

NRD: Non-rapidly degradable

onchorhynchus mykiss: fish, rainbow trout

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'

Law for PRTR and Promotion of Chemical Management (Jp) PRTR:

PVC: polyvinyl chloride quail: bird, quail rat: rat rabbit rbt:

RD: rapidly degradable

RE: repeated

REACh: Registration, Evaluation, Authorisation and Restriction of Chemicals

REF: item number, reference number Reg.No.: rRegistration number

harmful to reproduction Repr:

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)

very persistent, very bioaccumulating substance vPvB:



Software: M2 V 6.0.28.156

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## 16.7 Training advice

Regular safety training. Multiple safety training of staffs about danger and protection by using hazards in working area. Additionally training and introduction of staffs for using these products.