

Safety Data Sheet

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

QUANTOFIX Chlorine Page: 1/12 Printing date: 22.11.2022 Date of issue: 24.10.2022 Version: 2.2.2.4

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

1.1 **Product identifier**

REF 91317

no data available **QUANTOFIX 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 100 test strips

1 x 7 g Cl 2-1

1 x 25 mL Cl 2 -2 UFI: UVAV-C33A-Q20N-DFQ5

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.

If CE labelling: Product for in-vitro-diagnostic use (IVD) or Accessory for medical use

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) (G Roth GmbH + Co Lieferant

1.4 Emergency telephone number

76185 Karlsruhe, Germany

You find our current versions of SDS in Internet:

76185 Karlsrumo, 76185 sicherheit@carlroth.de

SECTION 2: Hazard identification

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





GHS02

Signal word **WARNING**

Hazard identification Hazard classes/categories H226 Flam. Liq. 3 H302 Acute Tox. 4 oral H312 Acute Tox. 4 derm. H332 Acute Tox. 4 inh. **EUH031** 031 not defined

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

25 mL Cl 2 -2



Software: M2 V 6.0.20.60

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Signal word WARNING

Hazard identification Hazard classes/categories EUH031 031 not defined H226 Flam. Liq. 3 H302 Acute Tox. 4 oral H312 Acute Tox. 4 derm. H332 Acute Tox. 4 inh.

100 test strips

Do not need labelling as hazardous

Signal word

No hazard class

7 g 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 and highly flammable chemicals/mixtures 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





Signal word: WARNING

100 test strips

Do not need labelling as hazardous

Signal word: -

7 g Cl ₂ -1

Do not need labelling as hazardous

Signal word: -

Label elements of the complete product





Signal word: WARNING

2.3 Other hazards



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Possible hazards from physicochemical properties

Flammable properties.

Information pertaining to particular risks to human and possible symptoms

Cause after oral intake, inhalation of vapours/dust, impairments of health when ingested in small quantities.

Information pertaining to particular risks to the environment

Possible endocrine disrupting effects

no data available

Other hazards

Contains an odor intensive reagent.

SECTION 3: Composition / information on ingredients

3.1 Substances or 3.2 Mixtures

25 mL Cl 2 -2

Substance name: pyridine CAS No.: pyridine

Substance rating: H225, Flam. Liq. 2, H302, Acute Tox. 4 oral, H312, Acute Tox. 4 derm., H332, Acute Tox. 4 inh.

Formula: C ₅ H ₅ N Pseudonym (de): Azin, Azabenzol

REACH Reg. No.: 01-2119493105-40-xxxx

EC No.: 203-809-9 Indice No.: 613-002-00-7 Concentration: 32 - <44 %

acc. CLP (GHS): H226, Flam. Liq. 3, H332, Acute Tox. 4 inh.

Substance name: potassium cyanide

CAS No.: 151-50-8

Substance rating: H300, Acute Tox. 1 oral, H310, Acute Tox. 1 derm., H330, Acute Tox. 1 inh., H410, Aquatic Chronic

H302, Acute Tox. 4 oral, H312, Acute Tox. 4 derm., H332, Acute Tox. 4 inh., EUH031, 031 not

1, EUH032, not defined Formula: KCN Pseudonym (de): Cyankali

REACH Reg. No.: 01-2119486407-29-xxxx

EC No.: 205-792-3 Indice No.: 006-007-00-5 Concentration: 0,1 - <1 % Correlation factor: x 0.40 (= %CN -)

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): defined

100 test strips

Substance name: cellulose paper CAS No.: cellulose paper

Substance rating: No criteria for classification or naming of chemical not required

Formula: $(C_6 H_{10} O_5)_n$ REACH Reg. No.: exempt, Annex IV EC No.: 232-674-9 Concentration: 1 - <10 %

acc. CLP (GHS): The criteria for classification are not fulfilled. Substance name: chemicals/mixture until 1%

CAS No.:

Substance rating: No criteria for classification or naming of chemical not required.

Concentration: 0,1 - <1 %

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

Substance name: PVC foil (CAS 9002-86-2)
CAS No.: -

Substance rating: No criteria for classification or naming of chemical not required.

Concentration: 95 - <100 %

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

7 g Cl 2 -1



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Substance name: phosphates (buffer salts)

CAS No.:

Substance rating: No criteria for classification or naming of chemical not required.

Formula: K/Na ₁₋₃ H ₂₋₀ PO ₄ Concentration: 75 - <100 %

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

4.1.2 After EYE Contact

Rub dust with teardrops from eyes or: 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. After inhalation of dust fresh air should be inhaled.

4.1.4 After ORAL Intake

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

4.3 Indication of any immediate medical attention and special treatment needed

No additionally recommendations. ---

SECTION 5: Firefighting measures

5.1 Extinguishing media

5.1.1 Suitable extinguishing media

Fire extinguishers appropriate to the fire classification, and, if applicable, a fire blanket must be available in a prominent location in the work area. All extinguishers like FOAM, WATER SPRAY, DRY POWDER, CARBON DIOXIDE can be used. Fire extinguishers appropriate to the fire classification, and, if applicable, a fire blanket must be available in a prominent location in the work area. All extinguishers like FOAM, WATER SPRAY, DRY POWDER, CARBON DIOXIDE can be used.

5.1.2 Unsuitable extinguishing media

no data available

5.2 Special hazards arising from the substance or mixture

WARNING: Flammable (GHS regulation). May form explosive vapour-air mixtures. 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



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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Regular staff training is necessary.

6.2 **Environmental precautions**

not necessary

6.3 Methods and material for containment and cleaning up

Bind any escaping liquid with inert absorbent.

Collect small amounts of leaked liquid and flush with water into drains.

64 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 . Storage class (German chemical industry): see chapter 12.1

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

7.2.1 Requirements for stock rooms and containers

Keep original product packages tightly closed during handling and storage.

7.3 Specific end use(s)

Product for analytical use.

If CE labelling: Product for in-vitro-diagnostic use (IVD) or Accessory for medical use

SECTION 8: Exposure controls /personal protection

8.1 Control parameters

25 mL Cl 2 -2

Chemical: pyridine CAS No.: 110-86-1

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

EU value: [TWA] 5 ppm / 15 mg/m³ [8h] 5 ppm / 15 mg/m³ E/e respirable TRGS 900 (DE):

Short-term exposure factor:

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

SUVA(CH) MAK value: 5 ppm / 15 mg/m³ NIOSH:

: [TWA] 5 ppm / 15 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] 5 ppm / 15 mg/m³

Chemical: CAS No.: 151-50-8 potassium cvanide

CN: [TWA] 1 / [STEL] 5 mg/m³ FU value: TRGS 900 (DE): [CN 8h] 1 / [15min] 5 mg/m³ E/e respirable

Short-term exposure factor: (4), H

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

SUVA(CH) MAK value: 5 cn e mg/m3 NIOSH: not listed

NIOSH STEL: skin, HCN 4.7 ppm / 5 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: EPCRA/SARA Section 302 Extremely Hazardous Substances Yes (TPQ = 100 lbs) n/a; TWA skin, HCN

10 ppm / 11 mg/m³

100 test strips

cellulose paper CAS No.: 9004-34-6 Chemical:

TRGS 900 (DE): Staub 1.25 A / 4 E mg/m3 E/e respirable

SUVA(CH) MAK value:

NIOSH: TWA 10 (total) / 5 (resp) mg/m³



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[TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA: TWA 15 (total) / 5 (resp) mg/m³

Chemical: chemicals/mixture until 1% CAS No.:
Chemical: PVC foil (CAS 9002-86-2) CAS No.: -

7 g Cl 2 -1

Chemical: phosphates (buffer salts) CAS No.: -

8.2 Exposure controls

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.

8.2.4 Skin protection

Not necessary.

8.2.5 Personal hygiene

Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and clothing. Rinse any clothing on which the substance has been spilled, and soak it in water. Wash hands thoroughly with soap and water when stopping work and before eating, and then apply protective skin cream.

8.2.6 Thermal hazards

no data available

8.3 Limitation and monitoring of environmental exposure

Do not release product into environment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

25 mL Cl 2 -2

a) State of aggregation:

b) Colour: colourless c) Odor: red d) Melting point: no data available e) Boiling point: no data available f) Flammability: no data available g) Explosive limits (lower / upper): no data available h) Flash point: no data available i) Flashing temperature: no data available j) Decomposition temperature: no data available k) pH value: 8-9

m) Solubility in water:

no data available
no data available
no -100 %

n) Dispersion coefficient _(o/w): no data available o) Vapour pressure (20°C): no data available

p) Specific gravity: 0,99 g/mL

q) Relative vapour density (air=1): no data available r) Particle size: no data available

100 test strips

a) State of aggregation:

b) Colour: colourless c) Odor: red

d) Melting point:
e) Boiling point:
no data available
no data available
f) Flammability:
no data available



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g) Explosive limits (lower / upper): no data available h) Flash point: no data available i) Flashing temperature: no data available j) Decomposition temperature: no data available k) pH value: no data available I) Kinematic viscosity: no data available m) Solubility in water: no data available n) Dispersion coefficient (o/w): no data available o) Vapour pressure (20°C): no data available p) Specific gravity: no data available q) Relative vapour density (air=1): no data available r) Particle size: no data available

7 g Cl 2 -1

a) State of aggregation:

b) Colour: colourless c) Odor: red d) Melting point: no data available e) Boiling point: no data available f) Flammability: no data available g) Explosive limits (lower / upper): no data available h) Flash point: no data available i) Flashing temperature: no data available j) Decomposition temperature: no data available k) pH value: 8-9 I) Kinematic viscosity: no data available m) Solubility in water: 0-40 % n) Dispersion coefficient (o/w): no data available o) Vapour pressure (20°C): no data available p) Specific gravity: no data available q) Relative vapour density (air=1): no data available r) Particle size: no data available

9.2 Other information

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

Possible: &H:EUH031& No further data available.

10.4 Conditions to avoid

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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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: pyridine CAS No.: 110-86-1

TSCA Inventory: listed California Proposition 65 List: listed cancer inhalation, skin absorption, ingestion, skin and/or eye contact Target Organs: Eyes, skin, central nervous system, liver, kidneys, gastrointestinal tract,

Symptoms: irritation eyes; headache, anxiety, dizziness, insomnia; nausea, anorexia; dermatitis; liver, kidney

damage

Japan CSCL/PRTR: PRTR: ≥1,0% class I Japan ISHL: listed ≥1,0%/≥0,1%, Korea Exist.Chem.Inventory: KE-29929 LD50 orl rat: 800-1600 mg/kg LC_Low ihl rat: 4900 ppm/4H LC_Low orl gpg: 4000 mg/kg LC_Low orl hmn: 500 mg/kg LC50 ihl rat: 15,852 mg/L/4H

LC50 _{ihl rat}: 15,852 mg/L/4H
Acute Effects: Cause after skin contact, impairments of health when ingested in small quantities.

TRGS 905 (DE): [DFG] carc. 3B

Chemical: potassium cyanide CAS No.: 151-50-8

TSCA Inventory: listed California Proposition 65 List: not listed

Target Organs: act on blood or hemato-poietic system: decrease hemoglobin function; deprive body tissues of

oxygen

Symptoms: cyanosis; loss of consciousness

Australia NICNAS: not listed Canada CEPA 1999: DSL Yes

Japan CSCL/PRTR: Poisonous substance, PRTR: ≥1,0% CN class I, Japan PDSCL: Poisonous Substance

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

South Korea TCCA: not listed

Korea Exist.Chem.Inventory: KE-29092, >1% Toxic 97-1-90

 LD50 orl rat :
 5 mg/kg

 LC_Low orl hmn :
 2,86 mg/kg

 LD50 orl mus :
 8,5 mg/kg

 LD50 scu rat :
 7,8 mg/kg

Acute Effects: Cause after oral intake, inhalation of vapours/dust, skin contact, impairments of health when ingested in small

quantities.

TRGS 905 (DE): R F C

100 test strips

Chemical: cellulose paper CAS No.: 9004-34-6

TSCA Inventory: listed California Proposition 65 List: not listed

Exposure Routes: inhalation, skin and/or eye contact
Target Organs: Eyes, skin, respiratory system
Symptoms: irritation eyes, skin, mucous membrane

Australia NICNAS: not listed Canada CEPA 1999: DSL yes

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

Japan ISHL: not listed
South Korea TCCA: not listed
Korea Exist Chem.Inventory: KE-05339
LD50 orl rat: > 5000 mg/kg
LC50 ihl rat: > 5,800 mg/L/4H

Chemical: chemicals/mixture until 1% CAS No.: -

TSCA Inventory: all listed, <1% Korea Exist.Chem.Inventory: listed

Chemical: PVC foil (CAS 9002-86-2) CAS No.: -

TSCA Inventory: listed

7 g Cl ₂ -1



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CAS No .: -

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> phosphates (buffer salts) Chemical:

TSCA Inventory: all listed Korea Exist.Chem.Inventory: listed LD50 orl rat: > 2000 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.

25 mL Cl 2 -2

Chemical: pyridine CAS No.: 110-86-1

PNEC (fresh water):
PNEC = Predicted No Effected Concentration 300 µg/L

LC50 fish/96h: [EC50 4h] 560-1000 mg/L

320 mg/L EC50 daphnia/48h: IC5/7d: 120 mg/L IC50 scenedesmus quadricauda/72h:

EC10 pseudomonas putita/16h: [EC50 72h] 320 mg/L mg/L Water hazard class (DE): WGK No.: 0179

Dispersion coefficient (o/w): 0,64 Storage class (VCI):

Chemical: potassium cyanide CAS No.: 151-50-8

LC50 daphnia magna/48h: 2 48h; 0.53 24h mg/L

LC50 fish/96h 0.45 mg/L EC50 daphnia/48h: 0.041 mg/L 0.03 _{8d} mg/L IC50 scenedesmus quadricauda/72h

EC10/16h: 0.001 mg/L EC10 pseudomonas putita/16h: Water hazard class (DE): WGK No.: 338

Storage class (VCI): 6.1 B

100 test strips

cellulose paper Chemical: CAS No.: 9004-34-6

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

Chemical: chemicals/mixture until 1% CAS No .: -

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

Chemical: PVC foil (CAS 9002-86-2) CAS No .: -

7 g Cl 2 -1

Chemical: phosphates (buffer salts) CAS No .: -

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

12.2 Persistence and degradability

not necessary

12.3 **Bioaccumulative potential**

not necessary

12.4 Mobility in soil

not necessary



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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

Do not collect in acidic waste. May form toxic gases.

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

SECTION 14: Transport information

14.1 - 14.4: No dangerous goods according the transport regulations

14.5 Environmental hazards

none

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

BekGS 408, Application of the GefStoffV and the TRGS with the entry into force of the CLP regulation, December 2009, status: Jan 2012

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 2.2.2.4 and 2.2.2.2 following changes were applied: - 2 substance data corrected

16.2 List of H and P phrases

16.2.1 List of relevant H phrases

H226 Flammable liquid and vapour. H302 Harmful if swallowed. H312 Harmful in contact with skin.

H332 Harmful if inhaled.

EUH031 Contact with acids liberates toxic gas.

16.2.2 List of relevant P phrases

P260D Do not breathe vapours.



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Safety Data Sheet

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

 REF: 91317
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P264W Wash with water thoroughly after handling. P280sh Wear protective gloves/eye protection.

P301+312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P302+352 IF ON SKIN: Wash with plenty of water.

P330 Rinse mouth.

16.3 Recommended restriction on use

Only for professional user.

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

Revisions/Updates

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

2014-04 Adjustment of Regulation 487/2013/EU 2016-03 Adjustment of Regulation 1221/2015/EU

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

16.5 Further information

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16.6 Legend / Abbreviations

acc: according

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

Act: acute

BAT: biological workplace tolerance value

CAO: Cargo Aircraft Only

Carc: carcinogen

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

DNEL: Derived No-Effect Level (for workers) derm: dermal

dog: dog EC10: Conce

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



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CHEREY-NAGEI



Safety Data Sheet

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

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intrav: intravenous ipt: intraperitonaeal

ISHL: Industrial Safety and Health Law (Jp)

LC50: letale concentration 50%

LD50: letale dosis 50%

fisch, ide, orfe leuciscus idus: maximum workplace concentration MAK:

Met: Metall mus: mouse Muta: mutagen

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: PROC 15: Predicted No Effected Concentration Process category 'for laboratory use'

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

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

RD: rapidly degradable

repeated RE:

REACh: Registration, Evaluation, Authorisation and Restriction of Chemicals

REF: item number, reference number

Reg.No.: rRegistration number Repr: harmful to reproduction

sub cutan

Resp:

respiratory
REACH Implementations Projects RIP:

SDS: safety data sheet Sens: sensitisation STEL: short term exposure limit Specific Target Organ Toxicity STOT: SVHC: Substance of Very High Concern

t/a:

TCCA: Toxic Chemicals Control Act (S. Korea) Tox: toxic TSCA: The Toxic Substances Control Act (US)

TWA: time weighted average technical regulations (DE) TRGS:

vPvB: very persistent, very bioaccumulating substance

16.7 Training advice

scu:

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.



Software: M2 V 6.0.20.60

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