

Safety Data Sheet

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

REF: 91345.2	QUANTOFIX EZ Arsenic Sensitive PP	Page: 1/14
Printing date: 22.11.2022	Date of issue: 25.05.2022	Version: 2.2.2.2

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

1.1 Product identifier

REF 91345.2
 no data available QUANTOFIX EZ Arsenic Sensitive PP
 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 Teststripes As
 100 x 500 mg As-I UFI: Y8YW-F38C-H204-PUS1
 100 x 800 mg As-II
 1 x 20 mL KMnO 4 solution

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)

1.4 Emergency telephone number

Outside Germany (DE): Call your regional Poisons Information Service or call local Life Saving Service
 DE: Gemeinsames Gif tinformat ionszentrum (GGIZ)
 99089 Erfurt tel. +49 361 730 730, <<https://www.ggiz-erfurt.de>>

You find our current versions of SDS in Internet:

<<http://www.mn-net.com/SDS>>

Lieferant / Supplier:
 Carl Roth GmbH & Co. KG
 Schoemperlenstr. 3-5
 76185 Karlsruhe, Germany
 +49 721 5606 0
 sicherheit@carlroth.de

SECTION 2: Hazard identification

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



GHS07 GHS08 GHS09

Signal word WARNING

Hazard identification	Hazard classes/categories
H315	Skin Irrit. 2
H319	Eye Irrit. 2
H361d	Repr. 2
H410	Aquatic Chronic 1
H412	Aquatic Chronic 3

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

500 mg As-I



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GHS07

Signal word: WARNING

Hazard identification	Hazard classes/categories
H315	Skin Irrit. 2
H319	Eye Irrit. 2
H412	Aquatic Chronic 3

800 mg As-II



GHS09

Signal word: WARNING

Hazard identification	Hazard classes/categories
H410	Aquatic Chronic 1

20 mL KMnO₄ solution



GHS08

Signal word: WARNING

Hazard identification	Hazard classes/categories
H361d	Repr. 2

100 Teststripes As

Signal word: Do not need labelling as hazardous

No hazard class

List of H phrases: see section 16.2

2.2 Label elements according regulation (EC) 1272/2008

According **CLP directive** inner packages must be only labelled with GHS symbol(s) and product identifier(s) (EU 1272/2008 Annex I - 1.5.1.2). 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).

500 mg As-I



GHS07

Signal word: WARNING



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800 mg As-II



GHS09

Signal word: WARNING

20 mL KMnO₄ solution



GHS08

Signal word: WARNING

H361d

Suspected of damaging the unborn child.

P201, P280sh

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

100 Teststripes As

Do not need labelling as hazardous

Signal word: -

Label elements of the complete product



GHS07



GHS08



GHS09

Signal word: WARNING

H361d

Suspected of damaging the unborn child.

P201, P280sh

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

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

Suspected of damaging the unborn child.

Information pertaining to particular risks to the environment

PBT: not applicable

vPvB: not applicable

Possible endocrine disrupting effects

no data available

SECTION 3: Composition / information on ingredients

3.1 Substances or 3.2 Mixtures

500 mg As-I



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Substance name: *aminosulfonic acid (sulfamic acid)*
 CAS No.: 5329-14-6

Substance rating: H315, Skin Irrit. 2, H319, Eye Irrit. 2, H412, Aquatic Chronic 3
 Formula: $H_3NO_3S; NH_2-SO_3H$
 Pseudonym (de): Amidosulfonsäure
 REACH Reg. No.: 01-2119488633-28-xxxx
 EC No.: 226-218-8 Indice No.: 016-026-00-0
 Concentration: 70 - <90 %
 acc. CLP (GHS): H315, Skin Irrit. 2, H319, Eye Irrit. 2, H412, Aquatic Chronic 3
 Substance name: *sodium chloride*
 CAS No.: 7647-14-5

Substance rating: No criteria for classification or naming of chemical not required.
 Formula: NaCl
 Pseudonym (de): Kochsalz
 REACH Reg. No.: exempt, Annex V
 EC No.: 231-598-3
 Concentration: 30 - <50 %
 acc. CLP (GHS): The criteria for classification are not fulfilled.

800 mg As-II

Substance name: *zinc powder (stabilized)*
 CAS No.: 7440-66-6

Substance rating: H410, Aquatic Chronic 1
 Formula: Zn
 REACH Reg. No.: 01-2119467174-37-xxxx
 EC No.: 231-175-3 Indice No.: 030-002-01-9
 Concentration: 25 - <50 %
 acc. CLP (GHS): H410, Aquatic Chronic 1
 Substance name: *sodium chloride*
 CAS No.: 7647-14-5

Substance rating: No criteria for classification or naming of chemical not required.
 Formula: NaCl
 Pseudonym (de): Kochsalz
 REACH Reg. No.: exempt, Annex V
 EC No.: 231-598-3
 Concentration: 50 - <80 %
 acc. CLP (GHS): The criteria for classification are not fulfilled.

20 mL KMnO₄ solution

Substance name: *potassium permanganate*
 CAS No.: 7722-64-7

Substance rating: H272, Ox. Liq. 2, H302, Acute Tox. 4 oral, H361d, Repr. 2, H400, Aquatic Acute 1, H410, Aquatic Chronic 1
 Formula: $KMnO_4$
 REACH Reg. No.: 01-2119480139-34-xxxx
 EC No.: 231-760-3 Indice No.: 025-002-00-9
 Concentration: 3 - <5 % Correlation factor: x 0.35 (= %Mn)
 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): H361d, Repr. 2

100 Teststripes As

Substance name: *cellulose paper*
 CAS No.: 9004-34-6

Substance rating: No criteria for classification or naming of chemical not required.
 Formula: $(C_6H_{10}O_5)_n$
 REACH Reg. No.: exempt, Annex IV
 EC No.: 232-674-9
 Concentration: 1 - <10 %
 acc. CLP (GHS): The criteria for classification are not fulfilled.



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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.

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

CMR Effekte: Suspected of damaging the unborn child.

4.3 Indication of any immediate medical attention and special treatment needed

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

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.



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

Storage class (VCI): 5.1B
Water hazard class (DE): 3

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

500 mg As-I

Chemical: *aminosulfonic acid (sulfamic acid)* CAS No.: 5329-14-6
DNEL: [derm] 10 mg/kg bw/d; [inh] 70,5 mg/m³
DNEL = Derived No-Effect Level (for workers)
PNEC (fresh water): 1.8 mg/L
PNEC = Predicted No Effect Concentration

Chemical: *sodium chloride* CAS No.: 7647-14-5

800 mg As-II

Chemical: *zinc powder (stabilized)* CAS No.: 7440-66-6
DNEL: 1 inh mg/m³
DNEL = Derived No-Effect Level (for workers)
TRGS 900 (DE): 0.1A / 2E mg/m³
E/e respirable

Chemical: *sodium chloride* CAS No.: 7647-14-5

20 mL KMnO₄ solution

Chemical: *potassium permanganate* CAS No.: 7722-64-7
DNEL: 0.218 inh mg/m³
DNEL = Derived No-Effect Level (for workers)
EU value: [TWA] 0.2E Mn / 0.05A Mn mg/m³
TRGS 900 (DE): 0.02 Mn A; 0.2 Mn E mg/m³
E/e respirable
Short-term exposure factor: 1 (II), Y
skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded
TRGS 903 (DE): 15 µg/L
B blood, U urine, a no limitation, b end of exposition or shift
NIOSH: TWA 1 / ST 3 Mn 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: C 5 Mn mg/m³



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100 Teststripes As

Chemical: *cellulose paper*

CAS No.: 9004-34-6

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

SUVA(CH) MAK value: 3 a ppm

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

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

OSHA: TWA 15 (total) / 5 (resp) mg/m³

Chemical: *PVC foil (CAS 9002-86-2)*

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

Recommended to avoid contamination with these hazards.

8.2.5 Personal hygiene

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

8.2.6 Thermal hazards

no data available

8.3 Limitation and monitoring of environmental exposure

Do not release product into environment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

500 mg As-I

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:	no data available
l) 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

800 mg As-II

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



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h) Flash point:	no data available
i) Flashing temperature:	no data available
j) Decomposition temperature:	no data available
k) pH value:	no data available
l) Kinematic viscosity:	no data available
m) Solubility in water:	no data available
n) Dispersion coefficient (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

20 mL KMnO₄ solution

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:	no data available
l) 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

100 Teststripes As

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:	no data available
l) 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

9.2 Other information

Properties relevant to substance groups



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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

Avoid contact with concentrated acids and oxidizing agents.

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.

500 mg As-I

Chemical:	<i>aminosulfonic acid (sulfamic acid)</i>	CAS No.: 5329-14-6
TSCA Inventory:	listed	
Target Organs:	affect the eye or visual capacity	
Symptoms:	conjunctivitis; corneal damage	
LD50 orl rat :	2065 mg/kg	

Chemical:	<i>sodium chloride</i>	CAS No.: 7647-14-5
TSCA Inventory:	listed	
Korea Exist.Chem.Inventory:	KE-31387	
LD50 orl rat :	3000 mg/kg	

800 mg As-II

Chemical:	<i>zinc powder (stabilized)</i>	CAS No.: 7440-66-6
TSCA Inventory:	listed	
Korea Exist.Chem.Inventory:	KE-35518	
LD50 orl rat :	> 2000 mg/kg	
LC_Low ihl hmn :	0,124 mg/L/50M	
LC50 ihl rat :	5,41 mg/L/4H	

Chemical:	<i>sodium chloride</i>	CAS No.: 7647-14-5
TSCA Inventory:	listed	
Korea Exist.Chem.Inventory:	KE-31387	
LD50 orl rat :	3000 mg/kg	

20 mL KMnO₄ solution

Chemical:	<i>potassium permanganate</i>	CAS No.: 7722-64-7
TSCA Inventory:	listed	
Exposure Routes:	inhalation, ingestion	
Target Organs:	respiratory system, central nervous system, blood, kidneys	
Symptoms:	Manganism; asthenia, insomnia, mental confusion; metal fume fever: dry throat, cough, chest tightness, dyspnea (breathing difficulty), rales, flu-like	
Japan CSCL/PRTR:	PRTR: ≥1,0%Mn class I, Japan PDSCL: not listed	
Japan ISHL:	listed ≥1,0%/≥0,1%	
LD50 orl rat :	750 mg/kg	
LC_Low orl hmn :	100 mg/kg	



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Carcinogenic Effects: Suspected of damaging the unborn child.

100 Teststrips As

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: *PVC foil (CAS 9002-86-2)* CAS No.: -
 TSCA Inventory: listed

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.

500 mg As-I

Chemical: *aminosulfonic acid (sulfamic acid)* CAS No.: 5329-14-6
 Harmful to aquatic life with long lasting effects. Avoid contact of substance/mixture to environment.
 Environmental hazards must not be labelled with P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2).
 PNEC (fresh water) : 1.8 mg/L
 PNEC = Predicted No Effect Concentration
 LC50 fish/96h : [4d] 70.3 mg/L
 EC50 daphnia/48h : [48h=24h] 71.6 mg/L
 IC50 scenedesmus quadricauda/72h : [72h] 48 mg/L
 Water hazard class (DE): 1 WGK No.: 1266
 Dispersion coefficient (o/w) : -4,34
 Storage class (VCI): 8 B

Chemical: *sodium chloride* CAS No.: 7647-14-5
 Water hazard class (DE): 1
 Storage class (VCI): 12-13

800 mg As-II

Chemical: *zinc powder (stabilized)* CAS No.: 7440-66-6
 LC50 fish/96h : 2.01 mg/L
 EC50 daphnia/48h : 0.131 mg/L
 EC50 pseudokirchneriella subcapitata/72h : IC50: 0.713 mg/L
 Water hazard class (DE): 2 WGK No.: 7325
 Storage class (VCI): 13

Chemical: *sodium chloride* CAS No.: 7647-14-5
 Water hazard class (DE): 1
 Storage class (VCI): 12-13

20 mL KMnO₄ solution



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Chemical: *potassium permanganate* CAS No.: 7722-64-7
 LC50_{fish/96h}: 3.6 mg/L
 Water hazard class (DE): 3 WGK No.: 1936
 Storage class (VCI): 5.1 B

100 Teststripes As
 Chemical: *cellulose paper* CAS No.: 9004-34-6
 Water hazard class (DE): nwg
 Storage class (VCI): 11

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

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).

13.1 Waste treatment methods

SECTION 14: Transport information

14.1 UN number: 3077

14.2 UN proper shipping name: Environmentally hazardous substance, solid, n.o.s. (zinc powder (stabilized) mixture)

14.3 Class: 9 14.4 Packing group: -

Road transport ADR

Classification code: no data available
 Limited Quantity: no data available Tunnel restriction code: no data available

Air transport ICAO

Limited Quantity: no data available
 Excepted Quantity: no data available
 PAX: no data available max. weight PAX: no data available
 CAO: no data available max. weight CAO: no data available

Maritime transport IMDG

EmS: no data available Storage category: no data available

14.5 Environmental hazards

none, contains only small amounts of these substances

14.6 Special precautions for user

not necessary

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code



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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 2012
 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

in preparation

16.2 List of H and P phrases

16.2.1 List of relevant H phrases

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H361d	Suspected of damaging the unborn child.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

16.2.2 List of relevant P phrases

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

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
 Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work 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
 TRGS 905, German engineering rules for carcinogenic and mutagenic substances, as of March 18, 2016
 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



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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 oxygen demand
 CSCL: Chemical Substance Control Law (Jp)
 Dam: damage
 DNEL: Derived No-Effect Level (for workers)
 derm: dermal
 dog: dog
 EC10: Concentration causing a toxic effect in 10% of the test organisms
 EC: European Community
 EC-Nr: Substance number of the EC substance inventory
 EmS: Guide to accident management measures on ships
 EU: European Union
 fish: fish (not specified)
 GHS: Global Harmonized System of Classification and Labeling of Chemicals
 gpg: guinea pig
 ICAO: International Civil Aviation Organization
 ihl: inhaled
 IMDG: International Maritime Dangerous Goods Code
 intrav: intravenous
 ipt: intraperitoneal
 ISHL: Industrial Safety and Health Law (Jp)
 LC50: letale concentration 50%
 LD50: letale dosis 50%
 leuciscus idus: fisch, ide, orfe
 MAK: maximum workplace concentration
 Met: Metall
 mus: mouse
 Muta: mutagen
 NIOSH: National Institute for Occupational Safety and Health (US)
 NRD: Non-rapidly degradable
 onchorhynchus mykiss: fisch, rainbow trout
 orl: oral
 OSHA: Occupational Safety and Health Administration
 PAX: transport on passenger planes allowed
 PBT: persistent, bioaccumulating, toxic substance
 pH: pH value
 pimephales promelas: fisch, fathead minnow
 PNEC: Predicted No Effect Concentration
 PROC 15: Process category 'for laboratory use'
 PRTR: Law for PRTR and Promotion of Chemical Management (Jp)
 PVC: polyvinyl chloride
 quail: bird, quail
 rat: rat
 rbt: rabbit
 RD: rapidly degradable
 RE: repeated
 REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
 REF: item number, reference number
 Reg.No.: rRegistration number



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Repr: harmful to reproduction
 Resp: respiratory
 RIP: REACH Implementations Projects
 scu: sub cutan
 SDS: safety data sheet
 Sens: sensitisation
 STEL: short term exposure limit
 STOT: Specific Target Organ Toxicity
 SVHC: Substance of Very High Concern
 t/a: tons per year
 TCCA: Toxic Chemicals Control Act (S. Korea)
 Tox: toxic
 TSCA: The Toxic Substances Control Act (US)
 TWA: time weighted average
 TRGS: technical regulations (DE)
 vPvB: very persistent, very bioaccumulating substance

16.7 Training advice

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



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