

# Safety Data Sheet

according to Regulations REACH 1907/2006/EC

REF: 90801	Moisture indicator papers (pack 12)	Page: 1/10
Printing date: 14.01.2026	Date of issue: 06.02.2025	Version: 2.4.2.2

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

### 1.1 Product identifier

REF 90801  
 Product name Moisture indicator papers (pack 12)

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.  
 12 x 1 pc Moisture indicator (completely impregnated) UFI: V5KV-C3S2-R20Q-MG7N

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

## SECTION 2: Hazard identification

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



Signal word	DANGER
<b>Hazard identification</b>	<b>Hazard classes/categories</b>
H302	Acute Tox. 4 oral
H317	Skin Sens. 1
H334	Resp. Sens. 1
H341	Muta. 2
H350i	Carc. 1 A
H360F	Repr. 1 B
H410	Aquatic Chronic 1

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

1 pc Moisture indicator (completely impregnated)



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Signal word	DANGER
<b>Hazard identification</b>	<b>Hazard classes/categories</b>
H302	Acute Tox. 4 oral
H317	Skin Sens. 1
H334	Resp. Sens. 1
H341	Muta. 2
H350i	Carc. 1 A
H360F	Repr. 1 B
H400	Aquatic Acute 1
H410	Aquatic Chronic 1

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). This labelling exemption is NOT valid for sensiblizing substances.

### 1 pc Moisture indicator (completely impregnated)



Signal word: DANGER  
 H317, H334, H341, H350i, H360F  
 May cause an allergic skin reaction.May cause allergy or asthma symptoms or breathing difficulties if inhaled.Suspected of causing genetic defects.May cause cancer if inhaled.May damage fertility.  
 P201, P202, P261sh, P280sh, P284, P302+352, P333+313, P342+311, P362+364, P405, P501  
 Obtain special instructions before use.Do not handle until all safety precautions have been read and understood.Avoid breathing dust/vapours.Wear protective gloves/eye protection.[In case of inadequate ventilation] wear respiratory protection.IF ON SKIN: Wash with plenty of water.If skin irritation or rash occurs: Get medical advice/attention.If experiencing respiratory symptoms: Call a POISON CENTER/doctor.Take off contaminated clothing and wash it before reuse.Store locked up.Dispose of contents/container to regulated waste treatment.

### Label elements of the complete product



Signal word: DANGER  
 H317, H334, H341, H350i, H360F  
 May cause an allergic skin reaction.May cause allergy or asthma symptoms or breathing difficulties if inhaled.Suspected of causing genetic defects.May cause cancer if inhaled.May damage fertility.  
 P201, P202, P261sh, P280sh, P284, P302+352, P333+313, P342+311, P362+364, P405, P501  
 Obtain special instructions before use.Do not handle until all safety precautions have been read and understood.Avoid breathing dust/vapours.Wear protective gloves/eye protection.[In case of inadequate ventilation] wear respiratory protection.IF ON SKIN: Wash with plenty of water.If skin irritation or rash occurs: Get medical advice/attention.If experiencing respiratory symptoms: Call a POISON CENTER/doctor.Take off contaminated clothing and wash it before reuse.Store locked up.Dispose of contents/container to regulated waste treatment.

## 2.3 Other hazards

### Possible hazards from physicochemical properties

A single humidity indicator has considerably less hazardous potential. Repeated contact needs safety measures (see page down).

### Information pertaining to particular risks to human and possible symptoms

Cause after oral intake, skin contact, impairments of health when ingested in small quantities. May cause sensitization by skin contact, also in repeated contact of small amounts. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Suspected of causing genetic defects. May cause cancer. May cause cancer if inhaled. May damage fertility.



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## Information pertaining to particular risks to the environment

**PBT:** not applicable

**vPvB:** not applicable

## Possible endocrine disrupting effects

no data available

## Other hazards

Harmful if inhaled and/or by multiple exposition. Inhaled dust may cause cancer, also in human.

The classification of the pure substance as cancer and as allergen is related to respirable form (dust, aerosol) respectively to professional skin contact. In the impregnated test paper  $\text{CoCl}_2$  is only in an adsorbed, fixed form. By intended use an exposition is either excluded or for skin contact negligible.

## SECTION 3: Composition / information on ingredients

### 3.1 Substances or 3.2 Mixtures

#### 1 pc Moisture indicator (completely impregnated)

Substance name: *cobalt(II) chloride*  
CAS No.: 7646-79-9

Substance rating: H302, Acute Tox. 4 oral, H317, Skin Sens. 1, H334, Resp. Sens. 1, H341, Muta. 2, H350i, Carc. 1 A, H360F, Repr. 1 B, H400, Aquatic Acute 1, H410, Aquatic Chronic 1

Formula:  $\text{CoCl}_2$

Pseudonym (de): Kobaltchlorid

REACH Reg. No.: 01-2119517584-37-xxxx

**SVHC listed:** listed (28/10/2008) Cand. Lst. REACH Art59(10)

EC No.: 231-589-4

Indice No.: 027-004-00-5

Concentration: 2,2 - <5,5 %

Correlation factor: x 0.454 (= %Co)

The classification refers to the weight percentage of the metal (according to CLP regulation 2008/1272/EG Annex VI, 1.1.3.2 Note 1)

acc. CLP (GHS): H302, Acute Tox. 4 oral, H317, Skin Sens. 1, H334, Resp. Sens. 1, H341, Muta. 2, H350i, Carc. 1 A, H360F, Repr. 1 B, H400, Aquatic Acute 1, H410, Aquatic Chronic 1

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

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

Formula:  $(\text{C}_6\text{H}_{10}\text{O}_5)_n$

REACH Reg. No.: exempt, Annex IV

EC No.: 232-674-9

Concentration: 90 - <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. Take to a doctor, in a raised position if there are breathing difficulties.

#### 4.1.1 After SKIN Contact

Remove dust with wetted tissue. Remove contaminated clothing immediately. Rinse the affected skin or mucous membrane thoroughly for min. 15 minutes under running water. Avoid neutralisation. Then apply a loose bandage.

#### 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

Administer a Dexamethasone spray as soon as possible. Ensure quiet, warmth, and provide resuscitation if necessary. In the event of respiratory distress ensure that the patient inhales oxygen. Secure the breathing, heart and circulatory function. After inhalation of dust fresh air should be inhaled. ---



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- 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**  
May cause allergy or asthma symptoms or breathing difficulties if inhaled. Chronic effects: Repeated contact, even in small amounts, can lead to sensitization.  
  
CMR Effekte: Suspected of causing genetic defects. May cause cancer. May cause cancer if inhaled. May damage fertility.
- 4.3 Indication of any immediate medical attention and special treatment needed**  
After SKIN CONTACT rinse with water for a long time. Apply glucocorticosteroides following inflammatory reactions. Inform patient respectively further measures and the possibility of long-term damages. ---

## SECTION 5: Firefighting measures

- 5.1 Extinguishing media**
- 5.1.1 Suitable extinguishing media**  
Fire extinguishers appropriate to the fire classification, and, if applicable, a fire blanket must be available in a prominent location in the work area. All extinguishers like FOAM, WATER SPRAY, DRY POWDER, CARBON DIOXIDE can be used.
- 5.1.2 Unsuitable extinguishing media**  
no data available
- 5.2 Special hazards arising from the substance or mixture**  
no data available
- 5.3 Advice for firefighters**  
No, for listed product. Product package burns like paper or plastic.  
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**  
Wear suitable protective gloves (see 8.2.2). Wear eye 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**  
PBT: not applicable  
vPvB: not applicable
- 6.3 Methods and material for containment and cleaning up**  
And dispose in accordance to local regulations for the disposal of hazardous chemicals. Clean any contaminated equipment and floors with plenty of water.
- 6.4 Reference to other sections**  
see information in section 5.4,7,8 and 13

## SECTION 7: Handling and storage

- 7.1 Precautions for safe handling**  
Handling in accordance with the test instruction, that comes with the product. Use only in well-ventilated working areas.
- 7.2 Conditions for safe storage, including any incompatibilities**  
Safe storage is guaranteed in the original packaging from MACHEREY-NAGEL. 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):** 6.1B  
**Water hazard class (DE):** 2
- 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.



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## 7.3 Specific end use(s)

Product for analytical use.

## SECTION 8: Exposure controls /personal protection

### 8.1 Control parameters

**1 pc Moisture indicator (completely impregnated)**  
 Chemical: *cellulose paper* CAS No.: 9004-34-6  
 TRGS 900 (DE): Staub 1.25 A / 4 E mg/m<sup>3</sup>  
 E/e respirable  
 SUVA(CH) MAK value: 3 a ppm  
 NIOSH: TWA 10 (total) / 5 (resp) mg/m<sup>3</sup>  
 [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/m<sup>3</sup>

Chemical: *cobalt(II) chloride* CAS No.: 7646-79-9  
 EU value: carc. 2, mut. 3, R F 2  
 TRGS 900 (DE): 0,1 E g/m<sup>3</sup>  
 E/e respirable  
 Short-term exposure factor: 4  
 skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded  
 SUVA(CH) MAK value: [als Co] 0,05 e mg/m<sup>3</sup>  
 SUVA(CH) BAT value: Co U/b 60 µg/L  
 NIOSH: 0.05 mg/m<sup>3</sup>  
 [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

### 8.2 Exposure controls

The highest level of cleanliness must be maintained at the workplace.

#### 8.2.1 Respiratory protection

Use for open access of these substances for example a protection filter, class A/AX. 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

**1 pc Moisture indicator (completely impregnated)**

a) State of aggregation:	solid
b) Colour:	blue
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:	5-7
l) Kinematic viscosity:	no data available



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m) Solubility in water:	no data available
n) Dispersion coefficient ( $K_{o/w}$ ):	no data available
o) Vapour pressure (20°C):	no data available
p) Specific gravity:	no data available
q) Relative vapour density ( $\rho_{air=1}$ ):	no data available
r) Particle size:	no data available

## 9.2 Other information

### 9.2.1 Information on physical hazard classes

no data available

### 9.2.2 Other safety-related parameters

No data is available for the other parameters for the mixtures, since no registration and no chemical safety report is required.

□ □

## 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.

#### 1 pc Moisture indicator (completely impregnated)

Chemical:	<i>cellulose paper</i>	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:	<i>cobalt(II) chloride</i>	CAS No.: 7646-79-9
TSCA Inventory:	listed	
ACGIH:	0.05 dust, fume mg/m <sup>3</sup>	
Japan CSCL/PRTR:	PRTR: ≥1,0% Co class I, Japan PDSCL: not listed	
Japan ISHL:	listed ≥0,1%/≥0,1%,	
Korea Exist.Chem.Inventory:	KE-06095	



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LD50 <sub>ori rat</sub> : 80 mg/kg  
 Exposure Risk Relationship (ERR) for respirable dust :  
 Tolerance concentration: [Co] 0,005 mg/m<sup>3</sup>  
 Acceptance concentration: [Co] 0,00005 mg/m<sup>3</sup>  
 Acute Effects: Cause after oral intake, skin contact, impairments of health when ingested in small quantities.  
 Chronic Effects: May cause sensitization by skin contact, also in repeated contact of small amounts. May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 Carcinogenic Effects: Suspected of causing genetic defects. May cause cancer. May cause cancer if inhaled. May damage fertility.  
 EU carcinogen: carc. 2, repr. 2  
 TRGS 905 (DE): K2, M3A  
 TRGS 907 (DE): Sah

## 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.

**1 pc Moisture indicator (completely impregnated)**

Substance name: *cellulose paper* CAS-Nr.: 9004-34-6  
 Water hazard class (DE): nwg  
 Storage class (VCI): 11

Substance name: *cobalt(II) chloride* CAS-Nr.: 7646-79-9  
 Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Do not release into the environment.  
 Environmentally hazardous substances/mixtures up to 125 mL do not have to be labeled with H and P statements (EU 1272/2008 Annex I Paragraph 1.5.2).  
 Water hazard class (DE): 2 WGK No.: 0493  
 Storage class (VCI): 6.1 B

### 12.2 Persistence and degradability

### 12.3 Bioaccumulative potential

### 12.4 Mobility in soil

### 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



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## SECTION 14: Transport information

14.1 - 14.4: No dangerous goods according the transport regulations

- 14.5 Environmental hazards**  
none, contains only small amounts of these substances
- 14.6 Special precautions for user**  
not necessary
- 14.7 Carriage in bulk by sea in accordance with IMO instruments**  
Not applicable.

## SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
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  
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  
Wasserhaushaltsgesetz - WHG, Section 3 Handling substances hazardous to water, Jul 2009, status: Aug 2016  
TRGS 561, Activities involving carcinogenic metals and their compounds, Oct 2017  
MN leaflet/instructions for use, also at [www.mn-net.com](http://www.mn-net.com)  
If necessary, observe other country-specific regulations.
- 15.2 Chemical safety assessment**  
no data available

## SECTION 16: Other information

- 16.1 Changes compared to the last version**  
Between versions 2.4.2.2 and 2.2.2.2 following changes were applied: - 2 product component data corrected
- 16.2 List of H and P phrases**
  - 16.2.1 List of relevant H phrases**

H	Between versions 2.4.2.2 and 2.2.2.2 following changes were applied: - 2 product component data corrected
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H341	Suspected of causing genetic defects.
H350i	May cause cancer if inhaled.
H360F	May damage fertility.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
  - 16.2.2 List of relevant P phrases**

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261sh	Avoid breathing dust/vapours.
P280sh	Wear protective gloves/eye protection.
P284	[In case of inadequate ventilation] wear respiratory protection.
P302+352	IF ON SKIN: Wash with plenty of water.
P333+313	If skin irritation or rash occurs: Get medical advice/attention.
P342+311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P362+364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P501	Dispose of contents/container to regulated waste treatment.
- 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.



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# Safety Data Sheet

## according to Regulations REACH 1907/2006/EC

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### 16.4 Sources of key data

KÜHN, BIRETT, Leaflets on hazardous materials, 2021  
 Directive 1999/92/EG Minimum requirements to improve the safety and health protection of workers at risk from potentially explosive atmospheres  
 Directive 2004/37/EC on the protection of workers from the risk of 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 Regulation 1272/2008/EU to technical and scientific progress (1st ATP)  
 Regulation 453/2010/EU, adaptation of the REACH regulation 1907/2006/EG  
 TRGS 907, German technical rules for listing substances and causes of sensitization, updated November 2011  
 Regulation 487/2013/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (4th ATP)  
 Regulation 1221/2015/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (7th ATP)  
 Regulation 776/2017/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (10th ATP)  
 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 progress (11th ATP)  
 Regulation 1480/2018/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (13th ATP)  
 Regulation 521/2019/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (12th ATP)  
 TRGS 900, German rules of technology on limit values in the air at work, as of 03/2019  
 Regulation 217/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (14th ATP)  
 Regulation 878/2020/EU, adaptation of Annex II of the REACH regulation 1907/2006/EG  
 Regulation 1182/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (15th ATP)  
 Regulation 643/2021/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2008/EC to technical and scientific progress (16th ATP)  
 Regulation 849/2021/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (17th ATP)  
 Regulation 692/2022/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2008/EC to technical and scientific progress (18th ATP)

#### revisions/updates

*Reason for revision:* 2014-02 Corrected structure of the sections according to Regulation 453/2010/EU, if necessary  
 2014-04 adjustment according Regulation 487/2013/EU  
 2016-03 adjustment according Regulation 1221/2015/EU  
  
 2017-11 adjustment according the ECHA registration dossier  
 2022-11 adjustment according Regulation 878/2020/EU

### 16.5 Further information

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### 16.6 Legend / Abbreviations

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



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- 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
- 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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