

# Safety Data Sheet

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

REF: 908903.101112  
Printing date: 11.02.2019

Humidity 8 %, 60x35 mm, n. CoCl<sub>2</sub> / Marx  
Date of issue: 06.09.2017

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

### 1.1 Product identifier

REF 908903.101112  
Product name Humidity 8 %, 60x35 mm, n. CoCl<sub>2</sub> / Marx  
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.  
1000 x 1 pc. Moisture paper (special formate)

### 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  
Neumann-Neander-Str. 6-8, 52355 Dueren, GERMANY  
Tel.: +49 2421 969 0  
E-mail: sds@mn-net.com (msds@mn-net.com)

### 1.4 Emergency telephone number

Information not necessary.  
You find our current versions of SDS (22 languages) in Internet: <http://www.mn-net.com/SDS>

## SECTION 2: Hazard identification

### 2.1 Classification of the substance or mixture

**1 pc. Moisture paper (special formate)**  
Signal word Do not need labelling as hazardous  
-  

Hazard identification	Hazard classes/categories
H412	Aquatic Chronic 3

### 2.2 Label elements

**1 pc. Moisture paper (special formate)**  
Do not need labelling as hazardous  
Signal word: -

### 2.3 Other hazards

**Possible hazards from physicochemical properties**  
According to our current status of knowledge and experience we state, that this product does not contain any substances, which - in accordance with EC regulations 1272/2008/EC, 1907/2006/EC and German Regulations for Hazardous goods - have to be declared as dangerous goods, either because of their applied concentration or because of their total amount in anyone kit. An individual package has considerably less hazardous potential. The property H314 "Causes severe skin burns and eye damage." of some salts is not applicable, because the mixture is buffered to pH >3-4 (see GHS Directive 1272/2008/EC Annex I, chapter 3.2.3.1.2.). ---  
**Information pertaining to particular risks to human and possible symptoms**

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Information pertaining to particular risks to the environment  
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Other hazards  
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## SECTION 3: Composition/information on ingredients

### 3.1 Substances or 3.2 Mixtures

#### 1 pc. Moisture paper (special formate)

Chemical:	<i>zinc chloride</i>	CAS No.:	7646-85-7
Classification:	&GefKat&		
Formula:	ZnCl <sub>2</sub>		
TSCA Inventory:	listed		
REACH Reg. No.:	01-2119472431-44-xxxx		
EC No.:	231-592-0	Indice No.:	030-003-00-2
RTECS:	ZH1400000	MFCD:	00011295
KE No.:	KE-35535, >25% Toxic 97-1-91		
Concentration:	2,085 - <2,5 %	Correlation factor:	x 0.48 (= %Zn)
The classification refers to weight percent of the metal (according to CLP Regulation 2008/1272/EC Annex VI, 1.1.3.2 Note 1)			
acc. CLP (GHS):	H412		

Chemical:	<i>indicator dye(s)</i>	CAS No.:	-
Classification:	&GefKat&		
TSCA Inventory:	all listed, <1%		
Concentration:	0,01 - <0,1 %		
acc. CLP (GHS):	not necessary		

Chemical:	<i>filter paper (cellulose CAS 9004-34-6)</i>	CAS No.:	-
Classification:	&GefKat&		
Formula:	(C <sub>6</sub> H <sub>10</sub> O <sub>5</sub> ) <sub>n</sub>		
TSCA Inventory:	listed		
REACH Reg. No.:	exempt, Annex IV		
EC No.:	232-674-9		
RTECS:	FJ5691460		
KE No.:	KE-05339		
Concentration:	80 - <100 %		
acc. CLP (GHS):	not necessary		

### 3.3 Remarks

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

Place insured person out of danger zone to fresh air immediately.

- 4.1.1 **After SKIN Contact**  
Remove dust with wetted tissue.
- 4.1.2 **After EYE Contact**  
Rub dust with teardrops from eyes
- 4.1.3 **After INHALATION of vapours**  
After inhalation of dust fresh air should be inhaled. ---
- 4.1.4 **After ORAL Intake**  
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### 4.2 Most important symptoms and effects, both acute and delayed

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

No additionally recommendations. ---

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## SECTION 5: Firefighting measures

### 5.1 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.

### 5.2 Special hazards arising from the substance or mixture

None.

### 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

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### 6.2 Environmental precautions

not necessary, contains only small amounts of these substances

### 6.3 Methods and material for containment and cleaning up

Clean working area with water. Flush used water into drains.

### 6.4 Reference to other sections

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## 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

The original product package allows a safe storage.

Storage class (VCI): 11

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.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### 1 pc. Moisture paper (special formate)

Chemical: *zinc chloride*

CAS No.: 7646-85-7

DNEL: 1.3Z<sub>n</sub>, inh mg/m<sup>3</sup>

DNEL = Derived No-Effect Level (for workers)

PNEC<sub>(fresh water)</sub>: 0.0206 mg/L

PNEC = Predicted No Effect Concentration

SUVA(CH) MAK value: 1 a mg/m<sup>3</sup>

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

Chemical: *indicator dye(s)*

CAS No.: -

Chemical: *filter paper (cellulose CAS 9004-34-6)*

CAS No.: -

TRGS 900 (DE): 1.25 A / 4 E mg/m<sup>3</sup>

E/e respirable

SUVA(CH) MAK value: 3 a mg/m<sup>3</sup>

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

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## 8.2 Exposure controls

Not necessary.

### 8.2.1 Respiratory protection

Not necessary.

### 8.2.2 Hand protection

Not necessary.

### 8.2.3 Eye protection

Not necessary.

### 8.2.4 Skin protection

Not necessary.

### 8.2.5 Personal hygiene

Information not necessary.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

1 pc. Moisture paper (special formate)

Appearance: solid

Colour: rose

Odor: odorless

### 9.2 Other information

Relevant Properties of Substance Group

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

None

### 10.2 Chemical stability

No known instability.

### 10.3 Possibility of hazardous reactions

None.

### 10.4 Conditions to avoid

Not known. ---

### 10.5 Incompatible materials

Not known. 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 toxicological effects

Following information is valid for pure substances.

#### 1 pc. Moisture paper (special formate)

Chemical:	<i>zinc chloride</i>	CAS No.: 7646-85-7
TSCA Inventory:	listed	California Proposition 65 List: not listed
Australia NICNAS:	not listed	Canada CEPA 1999: DSL Yes
Japan CSCL/PRTR:	PRTR: ≥1,0%Zn class I, Japan PDSCCL: Deleterious Substance	
Japan ISHL:	listed ≥1,0%/≥0,1%, Article 57-2 (SDS required)	
South Korea TCCA:	not listed	
Korea Exist.Chem.Inventory:	KE-35535, >25% Toxic 97-1-91	
LD50 <sub>orl rat</sub> :	350 mg/kg	
LD50 <sub>orl mus</sub> :	329 mg/kg	

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Chemical: *indicator dye(s)*  
TSCA Inventory: all listed, <1%

CAS No.: -

Chemical: *filter paper (cellulose CAS 9004-34-6)*  
TSCA Inventory: listed  
Australia NICNAS: not listed  
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<sub>orl rat</sub>: >5000 mg/kg  
LC50<sub>ihl rat</sub>: >5800<sub>4h</sub> mg/m<sup>3</sup>  
LD50<sub>drm rbt</sub>: >2000 mg/kg

CAS No.: -

California Proposition 65 List: not listed  
Canada CEPA 1999: DSL yes

## SECTION 12: Ecological information

### 12.1 Toxicity

Following information is valid for pure substances.

#### 1 pc. Moisture paper (special formate)

Chemical: *zinc chloride*  
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): 0.0206 mg/L  
PNEC = Predicted No Effect Concentration  
LC50<sub>fish/96h</sub>: 38 mg/L  
EC50<sub>daphnia/48h</sub>: 1.24 mg/L  
EC50<sub>pseudokirchneriella subcapitata/72h</sub>: 0.05 mg/L  
Water hazard class (DE): 3 WGK No.: 0207  
Storage class (VCI): 11

CAS No.: 7646-85-7

Chemical: *indicator dye(s)*  
Storage class (VCI): 12-13

CAS No.: -

Chemical: *filter paper (cellulose CAS 9004-34-6)*  
Water hazard class (DE): nwg  
Storage class (VCI): 11

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

no data available

### 12.6 Other adverse effects

no additional data available

## SECTION 13: Disposal considerations

Not necessary.

### 13.1 Waste treatment methods

GENERAL: Empty solids into municipal waste, empty liquids diluted into drains.

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## SECTION 14: Transport information

14.1 - 14.4 Not necessary

**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**  
German act governing protection from hazardous substances (Chemicals Act / Chemikaliengesetz- ChemG), revised on August 2013  
German order governing protection from hazardous substances (Ordinance on Hazardous Substances / Gefahrstoffverordnung - GefStoffV), revised on November 2010, according to Directive 98/24/EC  
MN Leaflet/User manual, also see [www.mn-net.com](http://www.mn-net.com)  
Look for your country-specific regulations.

**15.2 Chemical safety assessment**  
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## SECTION 16: Other information

**16.1 List of H and P phrases**

**16.1.1 List of relevant H phrases**  
H412 Harmful to aquatic life with long lasting effects.

**16.1.2 List of relevant P phrases**  
P273 Avoid release to the environment.

**16.2 Training advice**  
Regular safety training.

**16.3 Recommended restriction on use**  
None

**16.4 Further information**  
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**16.5 Sources of key data**  
Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS  
Regulation 487/2013/EU, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress  
Regulation 669/2018/EU, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress  
TRGS 900, German engineering rules governing limits in air at work, updated 03/2018  
SUVA .CH, Limits in air at work 2009, revised on 01.2009  
KÜHN, BIRETT Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)

**Revisions/Updates**  
Reason for Revision: 2016-03 Adaptation of regulation 1221/2015/EU