

Safety Data Sheet

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

REF: 908903

Humidity 8 %, 60x35 mm, n. CoCl2 / 1000

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Printing date: 09.05.2017

Date of issue: 12.04.2017

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

1.1 Product identifier

REF 908903
 Product name Humidity 8 %, 60x35 mm, n. CoCl2 / 1000

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: 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/MSDS>

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

1 pc. Moisture paper (special formate)

Directive 1999/45/EC

Symbols - do not need labelling as hazardous

CLP Directive 1272/2008/EC

GHS pictograms do not need labelling as hazardous
 Signal word -

Hazard identification	Hazard classes/categories
H412	Aquatic Chronic 3

2.2 Label elements

1 pc. Moisture paper (special formate)

Directive 1999/45/EC

Symbols:

-
-



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CLP Directive 1272/2008/EC

GHS pictograms:
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, 1999/45/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." 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

Information pertaining to particular Risks to the Environment

Other Hazards

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
Concentration:	2,085 - <2,5 %	Correlation factor:	x 0.48 (= %Zn)
Formula:	ZnCl ₂		
REACH Reg. No.:	01-2119472431-44-xxxx		
EC No.:	231-592-0	Indice No.:	030-003-00-2
RTECS:	ZH1400000		MFCD: 00011295
TSCA Inventory:	listed		
KE No.:	KE-35535, >25% Toxic 97-1-91	acc. CLP (GHS):	H412
acc. 1999/45/EC:	R 52/53		

Chemical:	<i>indicator dye(s)</i>	CAS No.:	-
Concentration:	0,01 - <0,1 %	acc. CLP (GHS):	not necessary
TSCA Inventory:	all <1%		
acc. 1999/45/EC:	-		

Chemical:	<i>filter paper (cellulose CAS 9004-34-6)</i>	CAS No.:	-
Concentration:	80 - <100 %	acc. CLP (GHS):	not necessary
Formula:	(C ₆ H ₁₀ O ₅) _n		
REACH Reg. No.:	exempt, Annex IV		
EC No.:	232-674-9		
RTECS:	FJ5691460		
TSCA Inventory:	listed		
KE No.:	KE-05339		
acc. 1999/45/EC:	-		

3.3 Remarks

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

Not necessary. Remove dust with wetted tissue.

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- 4.1.2 After EYE Contact**
Not necessary. Rub dust with teardrops from eyes
- 4.1.3 After INHALATION of Vapours**
Not necessary. After inhalation of dust fresh air should be inhaled.
- 4.1.4 After ORAL Intake**
Not necessary.
- 4.2 Most important symptoms and effects, both acute and delayed**
Avoid inhalation of dust. ---
- 4.3 Indication of any immediate medical attention and special treatment needed**
No additionally recommendations. ---

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**

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures**
Not necessary.
- 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**

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 of MACHEREY-NAGEL allows a safe storage.
Storage class (VCI): 8B
Water hazard class (DE): 3
- 7.2.1 Requirements for Stock Rooms and Containers**
Keep original product packages tightly closed during handling and storage.
- 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: $1.3Zn, inh \text{ mg/m}^3$
DNEL = Derived No-Effect Level (for workers)

PNEC(fresh water) : 0.0206 mg/L



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PNEC = Predicted No Effect Concentration

SUVA(CH) MAK value: 1 a mg/m³

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/m³

E/e respirable

SUVA(CH) MAK value: 3 a mg/m³

NIOSH: not listed

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

OSHA: not listed

8.2 Exposure controls

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

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

10.5 Incompatible materials

Not necessary. 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.

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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 PDSCL:	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 _{orl rat} :	350 mg/kg		
LD50 _{orl mus} :	329 mg/kg		

Chemical:	<i>indicator dye(s)</i>	CAS No.:	-
TSCA Inventory:	all <1%		

Chemical:	<i>filter paper (cellulose CAS 9004-34-6)</i>	CAS No.:	-
TSCA Inventory:	listed	California Proposition 65 List:	not listed
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} :	>5800 _{4h} mg/m ³		
LD50 _{drm rbt} :	>2000 mg/kg		

SECTION 12: Ecological information

12.1 Toxicity

Following information is valid for pure substances.

1 pc. Moisture paper (special formate)

Chemical:	<i>zinc chloride</i>	CAS No.:	7646-85-7
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 _{fish/96h} :	38 mg/L		
EC50 _{daphnia/48h} :	1.24 mg/L		
EC50 _{pseudokirchneriella subcapitata/72h} :	0.05 mg/L		
Water hazard class (DE):	3	WGK No.:	0207
Storage class (VCI):	8 B		

Chemical:	<i>indicator dye(s)</i>	CAS No.:	-
Storage class (VCI):	12-13		

Chemical:	<i>filter paper (cellulose CAS 9004-34-6)</i>	CAS No.:	-
Water hazard class (DE):	nwg		
Storage class (VCI):	11		

12.2 Persistence and degradability

not necessary

12.3 Bioaccumulative potential

not necessary

12.4 Mobility in soil

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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.

SECTION 14: Transport information

14.1 - 14.4 Not necessary

14.5 Environmental hazards

not necessary

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

15.2 Chemical safety assessment

SECTION 16: Other Information

16.1 List of R, H and P phrases

16.1.1 List of relevant R phrases

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

16.1.2 List of relevant H phrases

H412 Harmful to aquatic life with long lasting effects.

16.1.3 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

MACHEREY-NAGEL GmbH & Co. KG provides the information contained herein in good faith being up-to-date of own realizations at revision time. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose.

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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, 4th adaptation of CLP regulation to technical and scientific progress

TRGS 900, German engineering rules governing limits in air at work, updated September 2016

SUVA .CH, Limits in air at work 2009, revised on 01.2009

KÜHN, BIRETT Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)



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Revisions/Updates

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