

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

1.1 Product identifier

Trade name

: MC3090005

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture

Type of use

: Indicator for air humidity

# 1.3 Details of the supplier of the safety data sheet

Premier Farnell 150 Armley Road Leeds LS12 2QQ Tel. : +44 (0) 8701 202530

# 1.3 Emergency telephone number

+44 1865 407333

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

# Classification according CLP regulation (Regulation (EC) No. 1272/2008, as amended)

Hazard class	Hazard category	H-phrase
Carcinogenicity	Category 1B	May cause cancer if inhaled.
Reproductive toxicity	Category 1B	May damage fertility.
Chronic aquatic toxicity	Category 2	Toxic to aquatic life with long lasting effects.

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M-Factor (aquatic toxicity)

# Classification according EC Directive (67/548/EEC or 1999/45/EC, as amended)

Category of danger/Category	Hazard symbol	R - phrases
Carcinogenic - Category 2	Toxic	May cause cancer by inhalation.
Toxic to Reproduction Category 2	Toxic	May impair fertility.
	Dangerous for the environment	Toxic to aquatic organisms, may cause longterm adverse effects in the aquatic environment.

# 2.2. Label elements

Labelling in accordance with EC-Directives (67/548/EEC or 1999/45/EC, as amended) Symbols/Indications of danger





Toxic		
R phrases		
49		
60		

Dangerous for the environment

May cause cancer by inhalation.
May impair fertility.





51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S phrases	
53	Avoid exposure obtain special instructions before use.
45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
37	Wear suitable gloves.
60	This material and its container must be disposed of as hazardous waste.
61	Avoid release to the environment. Refer to special instructions/Safety data
	sheets.
Sensitizing components / contains :	

### Sensitizing components / contains :

Cobalt dichloride

May produce an allergic reaction.

### 2.3. Other hazards

No additional hazards are known except those derived from the labelling.

# **SECTION 3: Composition/information on ingredients**

### 3.1. Mixtures

**Chemical characterization** 

### cobalt dichloride on cardboard

# Hazardous ingredients

Cobalt dichloride	
Concentration	: >= 0.5 - < 1 %
CAS number	: 7646-79-9
EC number	: 231-589-4
Index Number	: 027-004-00-5

# Classification hazard substance EC

Carc.Cat.2	Carcinogenic Category 2	R 49
Repr.Cat.2	Toxic to Reproduction Category 2	R 60
Mut.Cat.3	Mutagenic Category 3	R 68
Xn	Harmful	R 22
		R 42/43
Ν	Dangerous for the environment	R 50 R 53
GHS classification EC		
Acute toxicity	Category 4	H302
Respiratory sensitisation	Category 1	H334
Skin sensitisation	Category 1	H317
Germ cell mutagenicity	Category 2	H341
Carcinogenicity	Category 1B	H350i
Reproductive toxicity	Category 1B	H360F
Acute aquatic toxicity	Category 1	H400
Chronic aquatic toxicity	Category 1	H410



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The text of the R-phrases is shown in section 16. The text of the H-phrases is shown in section 16.

# SECTION 4: First aid measures

# 4.1. Description of first aid measures

**General information** 

Take off all contaminated clothing immediately. Show this safety data sheet to the doctor in attendance. After inhalation Move to fresh air. Consult a physician after significant exposure. After contact with skin Wash off immediately with soap and plenty of water. After contact with eyes Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. After ingestion Rinse mouth. Call a physician immediately. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. 4.2. Most important symptoms and effects, both acute and delayed Hazards see point 2 4.3. Indication of any immediate medical attention and special treatment needed Treatment No information available. Treat symptomatically.

# **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media Suitable extinguishing media Dry powder Foam Carbon dioxide (CO2) Extinguishing media that must not be used for safety reasons Do not use a solid water stream as it may scatter and spread fire. 5.2. Special hazards arising from the substance or mixture In case of fire can be formed: breathable cobalt/cobalt oxide dust 5.3. Advice for firefighters Special protective equipment for firefighting In the event of fire, wear self-contained breathing apparatus.

# **Further information**

Standard procedure for chemical fires. Cool containers / tanks with water spray.

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# **SECTION 6: Accidental release measures**

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Avoid dust formation.

Use personal protective equipment.

Avoid contact with skin, eyes and clothing.

# 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

# 6.3. Methods and material for containment and cleaning up

Take up uncontaminated material and pass on for further processing.

Take up contaminated material by mechanical means, load into clean containers, and dispose of in accordance with legal regulations.

# 6.4. Reference to other sections

Additional information see point 8, 13 Avoid dust formation.

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

Advice on safe handling Avoid formation of dust and aerosols. Handle with care to avoid abrasion or breakage. **7.2. Conditions for safe storage, including any incompatibilities Requirements for storage areas and containers** Keep tightly closed in a dry and cool place. **Advice on storage compatibility** No materials to be especially mentioned. **Further information on storage conditions** Keep in a dry place. **Storage stability** Stable under recommended storage conditions. **7.3. Specific end use(s)** Not relevant

# **SECTION 8: Exposure controls/personal protection**

8.1. Control parametersExposure limit valuescobalt compoundsEC number: 231-589-4CAS number: 7646-79-9

Regulatory basis / Regulatory list	Revision	Type of value	Values	Remarks
UK. EH40 WEL - Workplace Exposure Limits United Kingdom. Workplace Exposure Limits (EH40/2005): Table 1: List of approved workplace exposure limits (WELs)	2007-08-01	Long-term exposure limit (8-hour TWA reference period) Cobalt	0.1 mg/m <sup>3</sup>	





### **DNEL/DMEL** values

DNEL/DMEL values are not available.

PNEC values

PNEC values are not available.

# 8.2. Exposure controls

Appropriate engineering controls none under normal use		
Respiratory protection	: not required	
Hand protection	: Chemical-resistant protective gloves according to EN 374, EN 388, EN 420.	
Eye protection	: Not required	
Body protection	: Not required	

# **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties

Form Particle size Colour Odour Odour threshold pH value Melting point Boiling temperature Sublimation point Flash point Evaporation rate Lower explosion limit Upper explosive limit Combustion number Minimum ignition energy Vapour pressure Vapour density relative to air **Relative Density** Solubility in water Miscibility with water Soluble in ... Solubility/qualitative Octanol/water partition Coefficient (logPow) Ignition temperature Self-ignition temperature Viscosity (dynamic) Viscosity (kinematic) Viscosity (Efflux time) Explosive properties Oxidizing properties

: Plates : not tested. : blue to pink : none : cannot be determined : 4.5 - 6 : not determined : not applicable : not determined : This information is not applicable for solids. : This information is not applicable for solids. : not tested. : not tested. : not tested. : not tested. : Not applicable : This information is not applicable for solids. : not tested. : partly soluble max. 1% CoCl2 can be leached out. : not tested. : not tested. : not tested. : Not determined : NA : Not applicable : N/A : This information is not applicable for solids. : This information is not applicable for solids. : This information is not applicable for solids. : Explosive according to EU supply regulations : no data : not tested.



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# 9.2. Other information

Density Bulk density

: not tested. : not tested.

# **SECTION 10: Stability and reactivity**

10.1. Reactivity
Stable
10.2. Chemical stability
No decomposition if stored and applied as directed.
10.3. Possibility of hazardous reactions
None known.
10.4. Conditions to avoid
Exposure to moisture (hygroscopic).
10.5. Incompatible materials
air humidity

# 10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

# Information related to the product itself:

Acute oral toxicity	: no data available
Acute dermal toxicity	: no data available
Acute inhalation toxicity	: no data available
Irritant effect on skin	: no data available
Sensitization	: no data available

# Remarks

water

No data is available on the product itself.

Handle in accordance with good industrial hygiene and safety practice.

# **SECTION 12: Ecological information**

# 12.1. Toxicity

Information related to the product itself:	
Fish toxicity	: no data available
12.2. Persistence and degradability	
Information related to the product itself:	
Biodegradability	: no data available
12.3. Bioaccumulative potential	
Information related to the product itself:	
Bioaccumulation	: no data available





# 12.4. Mobility in soil Information related to the product itself: Transport and distribution : no data available between environmental compartments : 12.5. Results of PBT and vPvB assessment Information related to the product itself: No data available. 12.6. Other adverse effects Information related to the product itself: Additional ecotoxicological remarks water endangering

# **SECTION 13: Disposal considerations**

**13.1. Waste treatment methods** Product Uncleaned packaging Dispose of as unused product.

# **SECTION 14: Transport information**

Contact waste disposal services.

Dispose of as hazardous waste in compliance with local and national regulations.

# Section 14.1. to 14.5.

ADR	
UN no.	UN 3077
Proper shipping name	: Environmentally hazardous substance, solid, n.o.s.
Hazard inducer(s)	: Cobalt dichloride
Class	: 9
Primary risk	: 9
Packing group	: 111
Hazard no.	: 90
Remarks	: Shipment permitted
ADN	
UN no.	UN 3077
Proper shipping name	: Environmentally hazardous substance, solid, n.o.s.
Hazard inducer(s)	: Cobalt dichloride
Class	: 9
Primary risk	: 9
Packing group	: 111
Remarks	: Shipment permitted
RID	
UN no.	UN 3077
Proper shipping name	: Environmentally hazardous substance, solid, n.o.s.
Hazard inducer(s)	: Cobalt dichloride
Class	: 9
Primary risk	: 9





Packing group	: 111
Hazard no.	: 90
Remarks	: Shipment permitted
ΙΑΤΑ	
UN no.	UN 3077
Proper shipping name	: Environmentally hazardous substance, solid, n.o.s.
Hazard inducer(s)	: Cobalt dichloride
Class	: 9
Primary risk	: 9
Packing group	: 111
Remarks	: Shipment permitted
IMDG	
UN no.	: UN 3077
Proper shipping name	: Environmentally hazardous substance, solid, n.o.s.
Hazard inducer(s)	: Cobalt dichloride
Class	: 9
Primary risk	: 9
Packing group	: 111
Remarks	: Shipment permitted
Marine pollutant	: Marine Pollutant
EmS	: F-A S-F
14.6. Special precautions for user	

# 14.6. Special precautions for user

See sections 6 to 8 of this Safety Data Sheet.

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code (International Bulk Chemicals Code)** No transport as bulk according IBC - Code.

# **SECTION 15: Regulatory information**

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Water Hazard Class (Ger.)

: WGK 2 water endangering (self-classification)

The product contains the following substance/impurity, which, according to annex XIV and XV of the REACH Regulation 1907/2006/EC, is an SVHC: Cobalt dichloride

# 15.2. Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

# **SECTION 16: Other information**

# Text of the R-phrases assigned to the ingredients/components

22	Harmful if swallowed.
42/43	May cause sensitization by inhalation and skin contact.
49	May cause cancer by inhalation.
50	Very toxic to aquatic organisms.
53	May cause long-term adverse effects in the aquatic environment.
60	May impair fertility.
68	Possible risk of irreversible effects.





### List of the text of the hazard statements mentioned section 3 (H-phrases) :

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.
Legend	
ADN	European Agreement concerning the International Carriage of Dangerous
ADN	Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous
	Goods by Road
AOX	Adsorbable organic bound halogens
CAS	Chemical Abstracts Service
DMEL	Derived Minimal Effect Level (genotoxic substances)
DNEL	Derived No Effect Level
EC50	Half maximal effective concentration
GHS	Globally Harmonized System
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Lethal Concentration 50%
LD50	Lethal Dose 50%
MARPOL	International Convention for the Prevention of Pollution From Ships
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No Observed Adverse Effect Level
NOEC	Non Observed Effect Concentration
OEL	Occupational Exposure Limit
PBT	Persistent, Bioaccumulative, Toxic
PEC	Predicted Environmental Concentration
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	International Rule for Transport of Dangerous Substances by Railway
SVHC	Substances of Very High Concern
vPvB	very Persistent and very Bioaccumulative

Part Number MC3090005

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