

# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# Color reference solution BG4 for coloring liquids Reag Ph. Eur., chapter 2.2.2

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

## 1.1. Product identifier

Color reference solution BG4 for coloring liquids Reag Ph. Eur., chapter 2.2.2

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

#### Use of the substance/mixture

Laboratory chemicals

Industrial uses: Uses of substances as such or in preparations at industrial sites

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

### Uses advised against

Do not use for private purposes (household).

### 1.3. Details of the supplier of the safety data sheet

Company name: AnalytiChem GmbH

ACD

Street: Stempelstraße 6
Place: D-47167 Duisburg

Telephone: 0203/5194-0 Telefax: 0203/5194-290

E-mail: info@analytichem.de

Contact person: Abteilung Produktsicherheit Telephone: 0203/5194-107/117

E-mail: produktsicherheit@analytichem.de

Internet: www.analytichem.de

Responsible Department: Abteilung Produktsicherheit

**1.4. Emergency telephone** For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire,

**number:** Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada:

1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls

accepted)

#### **Further Information**

This product is a mixture. REACH Registration Number see section 3.

## **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

## Regulation (EC) No 1272/2008

Met. Corr. 1; H290 Carc. 1B; H350i

Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

# 2.2. Label elements

#### Regulation (EC) No 1272/2008

# Hazard components for labelling

Cobalt(II) chloride hexahydrate **Signal word:**Danger

Pictograms:





## **Hazard statements**

H290 May be corrosive to metals. H350i May cause cancer by inhalation.



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H412 Harmful to aquatic life with long lasting effects.

## **Precautionary statements**

P201 Obtain special instructions before use.
P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P390 Absorb spillage to prevent material damage.

## Special labelling of certain mixtures

EUH208 Contains Iron(III) chloride hexahydrate. May produce an allergic reaction.

Restricted to professional users.

### 2.3. Other hazards

No data available

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

### 3.2. Mixtures

## **Chemical characterization**

Mixtures in aqueous solution

### Relevant ingredients

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification (Regulation (EC) No	1272/2008)			
7647-01-0	Hydrochloric acid			1 - < 5 %	
	231-595-7	017-002-01-X	01-2119484862-27		
	Skin Corr. 1B, STOT SE 3; H314 H	1335			
10025-77-1	Iron(III) chloride hexahydrate		< 1 %		
	231-729-4		01-2119497998-05		
	Acute Tox. 4, Skin Irrit. 2, Eye Dar	H317			
7758-99-8	copper sulphate pentahydrate		< 0.1 %		
	231-847-6	029-023-00-4	01-2119520566-40		
	Acute Tox. 4, Skin Irrit. 2, Eye Dar H400 H410	c 1; H302 H315 H318			
7791-13-1	Cobalt(II) chloride hexahydrate		< 0.1 %		
	231-589-4	027-004-00-5	01-2119517584-37		
	Carc. 1B, Muta. 2, Repr. 1B, Acute Chronic 1; H350i H341 H360F H30	, Aquatic Acute 1, Aquatic			

Full text of H and EUH statements: see section 16.



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Specific Conc. Limits, M-factors and ATE

CAS No	S No EC No Chemical name		Quantity	
	Specific Conc	. Limits, M-factors and ATE		
7647-01-0	231-595-7	Hydrochloric acid	1 - < 5 %	
		H314: >= 25 - 100 Skin Irrit. 2; H315: >= 10 - < 25 Eye Irrit. 2; H319: >= 10 - < = 3; H335: >= 10 - 100		
10025-77-1	231-729-4	Iron(III) chloride hexahydrate	< 1 %	
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = 500 mg/kg			
7758-99-8	231-847-6	copper sulphate pentahydrate	< 0.1 %	
	1	) = > 2000 mg/kg; oral: ATE 481 mg/kg		
7791-13-1	231-589-4	Cobalt(II) chloride hexahydrate	< 0.1 %	
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = 537 mg/kg			

### **Further Information**

No data available

## **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

### **General information**

First aider: Pay attention to self-protection!

### After inhalation

Provide fresh air.

Call a physician immediately.

# After contact with skin

Wash immediately with: Water

Take off immediately all contaminated clothing and wash it before reuse.

Call a physician immediately.

### After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Remove contact lenses, if present and easy to do. Continue rinsing.

Protect uninjured eye.

## After ingestion

Rinse mouth immediately and drink plenty of water.

Call a physician immediately.

# 4.2. Most important symptoms and effects, both acute and delayed

Irritant

Allergic reactions

Gastrointestinal complaints

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

No data available

## **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

# Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

# Unsuitable extinguishing media

no restriction



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

Non-combustible liquids

Hazardous combustion products

In case of fire may be liberated:

Metal oxide smoke, toxic

Sulphur oxides

Hydrogen chloride (HCI)

## 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

In case of fire and/or explosion do not breathe fumes.

Avoid contact with skin, eyes and clothes.

#### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Move undamaged containers from immediate hazard area if it can be done safely.

Use water spray jet to protect personnel and to cool endangered containers.

### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

#### General advice

Corrosive to metals.

#### For non-emergency personnel

Provide adequate ventilation.

Use personal protection equipment.

Avoid contact with skin, eyes and clothes.

Remove persons to safety.

**Emergency procedures** 

Do not breathe dust/fume/gas/mist/vapours/spray.

## For emergency responders

Precautionary statements For emergency responders: Personal protection equipment: see section 8

# 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

## For containment

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

Collect in closed and suitable containers for disposal.

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

## For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

#### Other information

Provide adequate ventilation.

Do not breathe dust/fume/gas/mist/vapours/spray.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

# 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

## **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling



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### Advice on safe handling

Avoid exposure - obtain special instructions before use.

Read label before use. Handle and open container with care.

When using do not eat, drink, smoke, sniff. Use personal protection equipment.

Provide adequate ventilation. Avoid contact with skin, eyes and clothes.

Do not breathe vapour/aerosol. If handled uncovered, arrangements with local exhaust ventilation have to be used

### Advice on protection against fire and explosion

Usual measures for fire prevention.

## Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs. Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink. Avoid: aerosol or mist formation Do not breathe vapour/aerosol.

### Further information on handling

Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary.

Take off immediately all contaminated clothing and wash it before reuse.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

### 7.2. Conditions for safe storage, including any incompatibilities

### Requirements for storage rooms and vessels

Store in a well-ventilated place. Keep container tightly closed.

Store in a place accessible by authorized persons only.

## Further information on storage conditions

Store in a dry place.

### 7.3. Specific end use(s)

Laboratory chemicals

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

## 8.1. Control parameters

## Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
7647-01-0	Hydrogen chloride	5	8		TWA (8 h)	
		10	15		STEL (15 min)	



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### **DNEL/DMEL values**

CAS No	Substance					
DNEL type		Exposure route	Effect	Value		
7647-01-0	Hydrochloric acid					
Worker DNE	L, long-term	inhalation	local	8 mg/m³		
Worker DNE	L, acute	inhalation	local	15 mg/m³		
Consumer D	NEL, long-term	inhalation	local	8 mg/m³		
Consumer D	NEL, acute	inhalation	local	15 mg/m³		
10025-77-1	Iron(III) chloride hexahydrate					
Worker DNEL, long-term		dermal	systemic	2,8 mg/kg bw/day		
Consumer DNEL, long-term		dermal	systemic	1,4 mg/kg bw/day		
Consumer DNEL, long-term		oral	systemic	0,28 mg/kg bw/day		
Consumer DNEL, acute		oral	systemic	20 mg/kg bw/day		
7791-13-1	Cobalt(II) chloride hexahydrate					
Consumer DNEL, long-term		oral	systemic	0,12 mg/kg bw/day		

### **PNEC** values

CAS No	Substance			
Environmenta	Environmental compartment			
7758-99-8	copper sulphate pentahydrate			
Freshwater		0,0078 mg/l		
Marine water		0,0052 mg/l		
Freshwater s	ediment	87 mg/kg		
Marine sedim	ent	676 mg/kg		
Micro-organis	Micro-organisms in sewage treatment plants (STP)			
Soil	Soil			
7791-13-1	Cobalt(II) chloride hexahydrate			
Freshwater	Freshwater			
Marine water	Marine water			
Freshwater sediment		9,5 mg/kg		
Marine sediment		9,5 mg/kg		
Micro-organisms in sewage treatment plants (STP)		0,37 mg/l		
Soil 1		10,9 mg/kg		

# 8.2. Exposure controls

## Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

### Individual protection measures, such as personal protective equipment

# Eye/face protection

goggles

Wear eye/face protection.

### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four



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control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact

Trade name/designation: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0.11 mm Wearing time with permanent contact: > 480 min

By short-term hand contact

Trade name/designation: KCI 741 Dermatril® I NBR (Nitrile rubber) 0,11 mm Recommended material: Wearing time with occasional contact (splashes): > 480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

#### Skin protection

Wear suitable protective clothing. Take off immediately all contaminated clothing. Wash hands before breaks and after work.

### Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

## **Environmental exposure controls**

Do not allow to enter into surface water or drains.

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

## 9.1. Information on basic physical and chemical properties

Physical state: Liquid Colour: clear Odour: odourless

Melting point/freezing point: No data available No data available Boiling point or initial boiling point and

boiling range:

No data available Flammability: Lower explosion limits: No data available Upper explosion limits: No data available No data available Flash point: Auto-ignition temperature: No data available Decomposition temperature: No data available pH-Value: acidic Viscosity / kinematic: No data available Water solubility: completely miscible

Solubility in other solvents

No data available

Partition coefficient n-octanol/water: No data available



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Vapour pressure:No data availableVapour pressure:No data availableDensity:1,00547 g/cm³Bulk density:No data availableRelative vapour density:No data available

# 9.2. Other information

# Information with regard to physical hazard classes

Explosive properties

No data available

Sustaining combustion:

No data available

Self-ignition temperature

Solid: No data available
Gas: No data available

Oxidizing properties
Oxidizing

#### Other safety characteristics

Evaporation rate:

Solvent separation test:

No data available

Solvent content:

Solid content:

Sublimation point:

No data available

Viscosity / dynamic:

Flow time:

No data available

No data available

Further Information
Corrosive to metals

# **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

Corrosive to metals

# 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

# 10.3. Possibility of hazardous reactions

No data available

## 10.4. Conditions to avoid

No data available

## 10.5. Incompatible materials

Metal

# 10.6. Hazardous decomposition products

In case of fire may be liberated: SECTION 5: Firefighting measures

## **Further information**

No data available

# **SECTION 11: Toxicological information**

## 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008



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#### Toxicocinetics, metabolism and distribution

There are no data available on the preparation/mixture itself.

#### **Acute toxicity**

Based on available data, the classification criteria are not met.

#### **ATEmix** calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name								
	Exposure route	Dose		Species	Source	Method			
10025-77-1	Iron(III) chloride hexahyd	Iron(III) chloride hexahydrate							
	oral	LD50 mg/kg	500	Rat	Study report (2004)	OECD Guideline 423			
	dermal	LD50 mg/kg	> 2000	Rat	Study report (2004)	OECD Guideline 402			
7758-99-8	copper sulphate pentahydrate								
	oral	ATE 481 mg/kg							
	dermal	LD50 mg/kg	> 2000	Rat	Study report (1993)	OECD Guideline 402			
7791-13-1	Cobalt(II) chloride hexahy	/drate							
	oral	LD50 mg/kg	537	Rat	Revista Española de Fisiologia, 39: 291	OECD Guideline 401			
	dermal	LD50 mg/kg	> 2000	Rat	Study report (2007)	OECD Guideline 402			

## Irritation and corrosivity

Based on available data, the classification criteria are not met.

## Sensitising effects

Based on available data, the classification criteria are not met.

Contains Iron(III) chloride hexahydrate. May produce an allergic reaction.

### Carcinogenic/mutagenic/toxic effects for reproduction

May cause cancer by inhalation. (Cobalt(II) chloride hexahydrate)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

## STOT-single exposure

Based on available data, the classification criteria are not met.

### STOT-repeated exposure

Based on available data, the classification criteria are not met.

## **Aspiration hazard**

Based on available data, the classification criteria are not met.

## Specific effects in experiment on an animal

There are no data available on the preparation/mixture itself.

## Additional information on tests

There are no data available on the preparation/mixture itself.

### Practical experience

There are no data available on the preparation/mixture itself.

#### 11.2. Information on other hazards

#### Other information

There are no data available on the preparation/mixture itself.



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## **Further information**

There are no data available on the preparation/mixture itself.

# **SECTION 12: Ecological information**

## 12.1. Toxicity

Harmful to aquatic life with long lasting effects.

CAS No	Chemical name								
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method		
7647-01-0	Hydrochloric acid								
	Acute fish toxicity	LC50	862 mg/l	96 h	Leuciscus idus				
7758-99-8	copper sulphate pentahyo	drate							
	Acute fish toxicity	LC50 mg/l	0,193	96 h	Pimephales promelas	Study report (1996)	measurements were conducted by standard		
	Acute algae toxicity	ErC50 mg/l	0,152	72 h	Pseudokirchneriella subcapitata	Publication (2005)	OECD Guideline 201		
	Acute crustacea toxicity	EC50 mg/l	0,007	48 h	Daphnia magna	Study report (1978)	- Test were conducted on Daphnia magna t		
	Fish toxicity	NOEC mg/l	0,123	12 d	Atherinops affinis	Mar. Environ. Res. 31: 17-35 (1991)	Three tests are reported, designed to de		
	Algae toxicity	NOEC mg/l	0,0102	19 d	other aquatic plant: giant kelp Macrocystis pyrife	Mar. Ecol. Prog. Ser. 68: 147 - 156 (199	Tests were conducted to determine the ef		
	Crustacea toxicity	NOEC mg/l	0,033	14 d	Penaeus mergulensis and Penaeus monodon	Bull. Environ. Contain. Toxicol. (1995)	The effects of dissolved copper on the g		
7791-13-1	Cobalt(II) chloride hexahydrate								
	Acute fish toxicity	LC50 mg/l	54,1	96 h	Pimephales promelas	Study report (2009)	other: ASTM guideline		
	Acute algae toxicity	ErC50 mg/l	71,314	96 h	Dunaliella tertiolecta	Study report (2010)	other: American Society for Testing and		
	Acute crustacea toxicity	EC50 mg/l	42,7	48 h	Aeolosoma sp.	Study report (2008)	Newman, J.P., Jr. 1975. The effects of h		
	Fish toxicity	NOEC mg/l	0,21	34 d	Pimephales promelas	Study report (2009)	other: This study was conducted accordin		
	Algae toxicity	NOEC mg/l	0,0018	7 d	Champia parvula	Study report - model refit from original	other: EPA 821-R- 02-014, Method 1009.0		
	Crustacea toxicity	NOEC mg/l	0,1697	14 d	Aeolosoma sp.	Study report (2008)	other: Newman, J.P., Jr. 1975. The effec		
	Acute bacteria toxicity	EC50	120 mg/l	0,5 h	Activated sludge	Study report (2010)	OECD Guideline 209		

# 12.2. Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

## 12.3. Bioaccumulative potential

There are no data available on the mixture itself.



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#### **BCF**

CAS No	Chemical name	BCF	Species	Source
10025-77-1	Iron(III) chloride hexahydrate	-	Fish, Oreochromis mossambicus	Indian Journal of En
7758-99-8	copper sulphate pentahydrate	0,02 - 20	Crangon crangon	Symp. Biologica. Hun
7791-13-1	Cobalt(II) chloride hexahydrate	23	Asterias rubens	Marine Pollution Bul

#### 12.4. Mobility in soil

There are no data available on the mixture itself.

### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

#### 12.7. Other adverse effects

Discharge into the environment must be avoided.

#### **Further information**

Do not allow to enter into surface water or drains.

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

### **Disposal recommendations**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Send to a physico-chemical treatment facility under observation of official regulations.

Do not empty into drains.

### Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Dispose of waste according to "Kreislaufwirtschafts- und Abfallgesetz (KrW-/AbfG)".

## **SECTION 14: Transport information**

#### Land transport (ADR/RID)

14.1. UN number or ID number: UN 1789

14.2. UN proper shipping name: HYDROCHLORIC ACID

14.3. Transport hazard class(es): 14.4. Packing group: Ш Hazard label: 8 Classification code: C<sub>1</sub> Special Provisions: 520 Limited quantity: 5 I Excepted quantity: F1 Transport category: 3 Hazard No: 80 Tunnel restriction code: Ε

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 1789

14.2. UN proper shipping name: HYDROCHLORIC ACID

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8



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Classification code: C1
Special Provisions: 520
Limited quantity: 5 L
Excepted quantity: E1

Marine transport (IMDG)

14.1. UN number or ID number: UN 1789

14.2. UN proper shipping name: HYDROCHLORIC ACID

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8Special Provisions:223Limited quantity:5 LExcepted quantity:E1EmS:F-A, S-B

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1789

14.2. UN proper shipping name: HYDROCHLORIC ACID

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8Special Provisions:A3 A803Limited quantity Passenger:1 LPassenger LQ:Y841Excepted quantity:E1

IATA-packing instructions - Passenger:852IATA-max. quantity - Passenger:5 LIATA-packing instructions - Cargo:856IATA-max. quantity - Cargo:60 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

# **SECTION 15: Regulatory information**

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

## **EU** regulatory information

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):

Cobalt(II) chloride hexahydrate

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

Information according to Directive

2012/18/EU (SEVESO III):

Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe employment restrictions for women of

child-bearing age.

Water hazard class (D): 2 - obviously hazardous to water

## **SECTION 16: Other information**



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### Changes

This data sheet contains changes from the previous version in section(s): 12.

#### Abbreviations and acronyms

Met. Corr: Substance or mixture corrosive to metals

Acute Tox: Acute toxicity Skin Corr: Skin corrosion Skin Irrit: Skin irritation Eve Dam: Eve damage

Resp. Sens: Respiratory sensitisation

Skin Sens: Skin sensitisation Muta: Germ cell mutagenicity Carc: Carcinogenicity Repr: Reproductive toxicity

STOT SE: Specific target organ toxicity - single exposure

Aquatic Acute: Acute aquatic hazard Aquatic Chronic: Chronic aquatic hazard

## Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Met. Corr. 1; H290	On basis of test data
Carc. 1B; H350i	Calculation method
Aquatic Chronic 3; H412	Calculation method

#### Re

atic Chronic 3; H412	Calculation method
elevant H and EUH s	tatements (number and full text)
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.

lay cause respiratory irritatio H341 Suspected of causing genetic defects. H350i May cause cancer by inhalation.

H360F May damage fertility. H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

**EUH208** Contains Iron(III) chloride hexahydrate. May produce an allergic reaction.

#### **Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)