

Farbreferenzlösung B braun zur Herstellung von Farbvergleichslösungen B1-B9 Revision date: 11.10.2022 Product code: 13351 Page 1 of 13 SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier Farbreferenzlösung B braun zur Herstellung von Farbvergleichslösungen B1-B9 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: Fa. Bernd Kraft GmbH Street: Stempelstraße 6 Place: D-47167 Duisburg Telephone: 0203/5194-0 Telefax: 0203/5194-290 e-mail: info@berndkraft.de Contact person: Abteilung Produktsicherheit Telephone: 0203/5194-107/117 produktsicherheit@berndkraft.de e-mail[.] Internet[.] www.berndkraft.de **Responsible Department:** Abteilung Produktsicherheit 1.4. Emergency telephone For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: number: 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 Eye Irrit. 2; H319 Skin Sens. 1; H317 Carc. 1B; H350i Repr. 1B; H360F Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

Iron(III) chloride hexahydrate

Cobalt(II) chloride hexahvdrate

Signal word: **Pictograms:**





Farbreferenzlösung B braun zur Herstellung von Farbvergleichslösungen B1-B9

Revision date: 11.10.2022

Product code: 13351

Page 2 of 13

Hazard statements

H290	May be corrosive to metals.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H350i	May cause cancer by inhalation.
H360F	May damage fertility.
H411	Toxic to aquatic life with long lasting effects.
Precautionary stater	nents
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.

P391 Collect spillage.

Special labelling of certain mixtures

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

Hazardous components

CAS No	Chemical name					
	EC No	Index No	REACH No			
	Classification (Regulation	(EC) No 1272/2008)				
7758-99-8	copper sulphate pentahy	drate		1 - < 5 %		
	231-847-6	029-023-00-4	01-2119520566-40			
	Acute Tox. 4, Skin Irrit. 2, H400 H410	Eye Dam. 1, Aquatic Acute 1, Aqu	atic Chronic 1; H302 H315 H318			
10025-77-1	Iron(III) chloride hexahyd		1 - < 5 %			
	231-729-4		01-2119497998-05			
	Acute Tox. 4, Skin Irrit. 2,	Eye Dam. 1, Skin Sens. 1; H302 F	I315 H318 H317			
7647-01-0	Hydrochloric acid			1 - < 5 %		
	231-595-7	017-002-01-X	01-2119484862-27			
	Skin Corr. 1B, STOT SE	3; H314 H335				
7791-13-1	Cobalt(II) chloride hexahy	/drate		< 1 %		
	231-589-4	027-004-00-5	01-2119517584-37			
		1B, Acute Tox. 4, Resp. Sens. 1, Sl 360F H302 H334 H317 H400 H410	kin Sens. 1, Aquatic Acute 1, Aquatic			

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



Farbreferenzlösung B braun zur Herstellung von Farbvergleichslösungen B1-B9

Revision date: 11.10.2022

Product code: 13351

Page 3 of 13

CAS No	EC No	Chemical name	Quantity				
	-						
	Specific Cond	. Limits, M-factors and ATE					
7758-99-8	231-847-6	copper sulphate pentahydrate	1 - < 5 %				
		0 = > 2000 mg/kg; oral: ATE 481 mg/kg Aquatic Acute 1; H400: M=10 nic 1; H410: M=1					
10025-77-1	231-729-4	Iron(III) chloride hexahydrate	1 - < 5 %				
	dermal: LD5	0 = > 2000 mg/kg; oral: LD50 = 500 mg/kg					
7647-01-0	231-595-7	Hydrochloric acid	1 - < 5 %				
		; H314: >= 25 - 100 Skin Irrit. 2; H315: >= 10 - < 25 Eye Irrit. 2; H319: >= 10 - < E 3; H335: >= 10 - 100					
7791-13-1	231-589-4	Cobalt(II) chloride hexahydrate	< 1 %				
	dermal: LD5) = > 2000 mg/kg; oral: LD50 = 537 mg/kg Carc. 1B; H350i: >= 0,01 - 100					
	Aquatic Acute	e 1; H400: M=10					
	Aquatic Chro	nic 1; H410: M=10					

Further Information

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: Cobalt(II) chloride hexahydrate

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.



Farbreferenzlösung B braun zur Herstellung von Farbvergleichslösungen B1-B9

Revision date: 11.10.2022

Product code: 13351

Page 4 of 13

Unsuitable extinguishing media

no restriction

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 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



Farbreferenzlösung B braun zur Herstellung von Farbvergleichslösungen B1-B9

Revision date: 11.10.2022

Product code: 13351

Page 5 of 13

7.1. Precautions for safe handling

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)	



Farbreferenzlösung B braun zur Herstellung von Farbvergleichslösungen B1-B9

Revision date: 11.10.2022

Product code: 13351

Page 6 of 13

DNEL/DMEL values

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

PNEC values

CAS No	Substance				
Environment	al compartment	Value			
7758-99-8	copper sulphate pentahydrate				
Freshwater		0,0078 mg/l			
Marine water	r	0,0052 mg/l			
Freshwater s	ediment	87 mg/kg			
Marine sedin	nent	676 mg/kg			
Micro-organi	0,23 mg/l				
Soil		65 mg/kg			
7791-13-1	Cobalt(II) chloride hexahydrate				
Freshwater		0,0006 mg/l			
Marine water	r	0,00236 mg/l			
Freshwater s	ediment	9,5 mg/kg			
Marine sediment		9,5 mg/kg			
Micro-organi	sms in sewage treatment plants (STP)	0,37 mg/l			
Soil		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



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Farbreferenzlösung B braun zur Herstellung von Farbvergleichslösungen B1-B9

Revision date: 11.10.2022

Product code: 13351

Page 7 of 13

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: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm 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: Colour:	Liquid clear	
Odour:	odourless	
Odour threshold:	No data available	
Melting point/freezing point:		No data available
Boiling point or initial boiling point and		No data available
boiling range:		
Flammability		
Solid/liquid:		No data available
Gas:		No data available
Lower explosion limits:		No data available
Upper explosion limits:		No data available
Flash point:		No data available
Auto-ignition temperature:		No data available
Decomposition temperature:		No data available
pH-Value:		acidic
Viscosity / kinematic:		No data available
Water solubility:		completely miscible



Farbreferenzlösung B braun zu	r Herstellung von Farbvergleichslösungen B1-B	9
Revision date: 11.10.2022	Product code: 13351	Page 8 of 13
Solubility in other solvents No data available Partition coefficient n-octanol/water: Vapour pressure: Vapour pressure: Density: Bulk density:	No data available No data available No data available 1,005 g/cm³ No data available	
Relative vapour density: 9.2. Other information	No data available	
Information with regard to physical hazard classes Explosive properties No data available Sustaining combustion: Self-ignition temperature Solid: Gas: Oxidizing properties Oxidizing	No data available No data available No data available	
Other safety characteristics Evaporation rate: Solvent separation test: Solvent content: Solid content: Sublimation point: Softening point: Pour point: No data available: Viscosity / dynamic: Flow time: Further Information	No data available No data available 0 0 No data available No data available No data available No data available	
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



Farbreferenzlösung B braun zur Herstellung von Farbvergleichslösungen B1-B9

Revision date: 11.10.2022

Product code: 13351

Page 9 of 13

SECTION 11: Toxicological information

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

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.

CAS No	Chemical name							
	Exposure route	Dose		Species	Source	Method		
7758-99-8	copper sulphate pentahydrate							
	oral	ATE 481	mg/kg					
	dermal	LD50 mg/kg	> 2000	Rat	Study report (1993)	OECD Guideline 402		
10025-77-1	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		
7791-13-1	Cobalt(II) chloride hex	ahydrate						
	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

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Sensitising effects

May cause an allergic skin reaction. (Iron(III) chloride hexahydrate; Cobalt(II) chloride hexahydrate)

Carcinogenic/mutagenic/toxic effects for reproduction

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

May damage fertility. (Cobalt(II) chloride hexahydrate) Germ cell mutagenicity: 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.



Farbreferenzlösung B braun zur Herstellung von Farbvergleichslösungen B1-B9

Revision date: 11.10.2022

Product code: 13351

Page 10 of 13

Further information

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

SECTION 12: Ecological information

12.1. Toxicity

There are no data available on the mixture itself.

CAS No	Chemical name									
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method			
7758-99-8	copper sulphate pentahydrate									
	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			
7647-01-0	Hydrochloric acid									
	Acute fish toxicity	LC50	862 mg/l	96 h	Leuciscus idus					
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 mg/l)	120	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.



Farbreferenzlösung B braun zur Herstellung von Farbvergleichslösungen B1-B9

Revision date: 11.10.2022

Product code: 13351

Page 11 of 13

	_
PC	E
DU	г

CAS No	Chemical name	BCF	Species	Source
7758-99-8	copper sulphate pentahydrate	0,02 - 20	Crangon crangon	Symp. Biologica. Hun
10025-77-1	Iron(III) chloride hexahydrate	-	Fish, Oreochromis mossambicus	Indian Journal of En
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. There are no data available on the mixture itself.

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 3264		
14.2. UN proper shipping name:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hydrochloric acid)		
14.3. Transport hazard class(es):	8		
14.4. Packing group:	III		
Hazard label:	8		
Classification code:	C1		
Special Provisions:	274		
Limited quantity:	5 L		
Excepted quantity:	E1		
Transport category:	3		
Hazard No:	80		
Tunnel restriction code:	E		
Inland waterways transport (ADN)			
14.1. UN number or ID number:	UN 3264		
14.2. UN proper shipping name:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hydrochloric acid)		
14.3. Transport hazard class(es):	8		
14.4. Packing group:	III		



Farbreferenzlösung B b	raun zur Herstellung von Farbvergleichslösungen B1-B9	
Revision date: 11.10.2022	Product code: 13351	Page 12 of 13
Hazard label:	8	
Classification code:	C1	
Special Provisions:	274	
Limited quantity:	5 L	
Excepted quantity:	E1	
Marine transport (IMDG)		
14.1. UN number or ID number:	UN 3264	
14.2. UN proper shipping name:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hydrochloric aci	id)
14.3. Transport hazard class(es):	8	
14.4. Packing group:	11	
Hazard label:	8	
Special Provisions:	223, 274	
Limited quantity:	5 L	
Excepted quantity:	E1	
EmS:	F-A, S-B	
Air transport (ICAO-TI/IATA-DGR)		
14.1. UN number or ID number:	UN 3264	
14.2. UN proper shipping name:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hydrochloric aci	id)
14.3. Transport hazard class(es):	8	
14.4. Packing group:		
Hazard label:	8 A3 A803	
Special Provisions: Limited quantity Passenger:	1 L	
Passenger LQ:	Y841	
Excepted quantity:	E1	
IATA-packing instructions - Passenger:	852	
IATA-max. quantity - Passenger:	5 L	
IATA-packing instructions - Cargo:	856	
IATA-max. quantity - Cargo:	60 L	
14.5. Environmental hazards		
ENVIRONMENTALLY HAZARDOUS:	Yes	
Danger releasing substance:	cobalt dichloride	
SECTION 15: Regulatory information		
	lations/legislation specific for the substance or mixture	
EU regulatory information		
Authorisations (REACH, annex XIV):		
Substances of very high concern, SVH	C (REACH, article 59):	
Cobalt(II) chloride hexahydrate		
Restrictions on use (REACH, annex XVII):		
Entry 3, Entry 75		
Information according to 2012/18/EU	E2 Hazardous to the Aquatic Environment	
(SEVESO III):		
National regulatory information		
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juve	nile
	work protection guideline' (94/33/EC). Observe employment restriction	
	under the Maternity Protection Directive (92/85/EEC) for expectant or	
	nursing mothers. Observe employment restrictions for women of	
	child-bearing age.	
Water bazard class (D):	A pigpin bozardoua to water	

Water hazard class (D):

3 - highly hazardous to water



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Farbreferenzlösung B braun zur Herstellung von Farbvergleichslösungen B1-B9

Revision date: 11.10.2022

Product code: 13351

Page 13 of 13

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 2,9.

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
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	Calculation method
Carc. 1B; H350i	Calculation method
Repr. 1B; H360F	Calculation method
Aquatic Chronic 2; H411	Calculation method

Relevant H and EUH statements (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.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
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.
H411	Toxic to aquatic life with long lasting effects.

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 hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)