

Gardner color standard color index 8 according to DIN EN ISO 4630-1:2004 (D)

Revision date: 27.06.2022

Product code: 21766

Page 1 of 11

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

1.1. Product identifier

Gardner color standard color index 8 according to DIN EN ISO 4630-1:2004 (D)

UFI:

3Q8X-R16M-Y00N-SK4F

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
e-mail:	produktsicherheit@berndkraft.de	
Internet:	www.berndkraft.de	
Responsible Department:	Abteilung Produktsicherheit	
1.4. Emergency telephone	For Hazardous Materials [or Danger	ous Goods] Incidents Spill, Leak, Fire,
number:	Exposure, or Accident Call CHEMTF	REC Day or Night Within USA and Canada:
	1-800-424-9300 Outside USA and C	anada: +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

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Signal word:

Pictograms:

Warning

Hazard statements

H290

May be corrosive to metals.

Precautionary statements

ecautionary stat	tements	
P234	Keep only in original packaging.	
P390	Absorb spillage to prevent material damage.	
P406	Store in a corrosion-resistant container with a resistant inner liner.	
P406	Store in a corrosion-resistant container with a resistant inner liner	



Gardner color standard color index 8 according to DIN EN ISO 4630-1:2004 (D)

Revision date: 27.06.2022

Product code: 21766

Page 2 of 11

Special labelling of certain mixtures

EUH208

Contains dipotassium hexachloroplatinate. 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

Hazardous components

CAS No	Chemical name						
	EC No	Index No	Index No REACH No				
	Classification (Regulation (EC) No 1272/2008)						
7647-01-0	Hydrochloric acid						
	231-595-7	017-002-01-X	01-2119484862-27				
	Skin Corr. 1B, STOT SE 3; H314 H335						
16921-30-5	dipotassium hexachloroplatinate						
	240-979-3	078-007-00-3	078-007-00-3				
	Acute Tox. 3, Eye Dam. 1, Resp. Sens. 1, Skin Sens. 1; H301 H318 H334 H317						

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity			
	Specific Conc. Limits, M-factors and ATE					
7647-01-0	231-595-7	Hydrochloric acid	1 - < 5 %			
	Skin Corr. 1B; H314: >= 25 - 100 Skin Irrit. 2; H315: >= 10 - < 25 Eye Irrit. 2; H319: >= 10 - < 25 STOT SE 3; H335: >= 10 - 100					
16921-30-5	240-979-3	dipotassium hexachloroplatinate	< 1 %			
	oral: LD50 = 195 mg/kg					

Further Information

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

No data available

After inhalation

Provide fresh air. Call a doctor if you feel unwell.

After contact with skin

Wash immediately with: Water

Take off immediately all contaminated clothing and wash it before reuse. In case of skin irritation, consult a physician.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.



Gardner color standard color index 8 according to DIN EN ISO 4630-1:2004 (D)

Revision date: 27.06.2022

Product code: 21766

Page 3 of 11

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

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

5.2. Special hazards arising from the substance or mixture

Non-combustible liquids Hazardous combustion products In case of fire may be liberated: Hydrochloric gas Metal oxide smoke, toxic

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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

Discharge into the environment must be avoided.

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.



an analyti**chem** company

according to Regulation (EC) No 1907/2006

Gardner color standard color index 8 according to DIN EN ISO 4630-1:2004 (D)

Revision date: 27.06.2022

Product code: 21766

Page 4 of 11

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

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Read label before use. Handle and open container with care. When using do not eat, drink, smoke, sniff. Keep container tightly closed. Use personal protection equipment. Use extractor hood (laboratory). Provide adequate ventilation. Avoid contact with skin, eyes and clothes.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

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.

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.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Protect against: Light

Further information on storage conditions

Unsuitable container/equipment material: Metal

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)	



Gardner color standard color index 8 according to DIN EN ISO 4630-1:2004 (D)

Revision date: 27.06.2022

Product code: 21766

Page 5 of 11

DNEL/DMEL values

CAS No	Substance						
DNEL type		Exposure route	Effect	Value			
7647-01-0 Hydrochloric acid							
Worker DNEL,	Worker DNEL, long-term		local	8 mg/m³			
Worker DNEL, acute		inhalation	local	15 mg/m³			
Consumer DNEL, long-term		inhalation	local	8 mg/m³			
Consumer DNEL, acute		inhalation	local	15 mg/m³			

PNEC values

CAS No	Substance				
Environmenta	al compartment	Value			
16921-30-5	dipotassium hexachloroplatinate				
Freshwater		0,00014 mg/l			
Freshwater (intermittent releases)		0,000205 mg/l			
Marine water		0,000017 mg/l			
Freshwater sediment		0,261 mg/kg			
Marine sediment		0,026 mg/kg			
Micro-organisms in sewage treatment plants (STP)		0,125 mg/l			
Soil		0,005 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. Do not breathe

gas/fumes/vapour/spray.

Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: Face protection shield goggles.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four 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 Recommended glove articles: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with permanent contact: > 480 min

By short-term hand contact Recommended glove articles: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Gardner color standard color index 8 according to DIN EN ISO 4630-1:2004 (D)

Revision date: 27.06.2022

Product code: 21766

Page 6 of 11

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. Protective clothing acid-resistant

Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

Environmental exposure controls

Do not empty into drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Colour:	Liquid yellow	
Odour:	odourless	
Changes in the physical state		
Melting point/freezing point:		No data available
Boiling point or initial boiling point and boiling range:		No data available
Sublimation point:		No data available
Softening point:		No data available
Pour point:		No data available
No data available:		
Flash point:		Х
Flammability Solid/liquid:		not applicable
Gas:		not applicable
Explosive properties No data available		
Lower explosion limits:		No data available
Upper explosion limits:		No data available
Auto-ignition temperature:		No data available
Self-ignition temperature		
Solid:		not applicable
Gas:		not applicable
Decomposition temperature:		No data available
pH-Value:		acidic
Viscosity / dynamic:		No data available
Viscosity / kinematic:		No data available
Flow time:		No data available
Water solubility:		No data available



	Gardner color standard color index 8 according to DIN EN ISO 4630-1:2004 (D)						
Revision date: 27.06.2022	Product code: 21766	Page 7 of 11					
Solubility in other solvents not determined							
Partition coefficient n-octanol/water:	No data available						
Vapour pressure:	No data available						
Vapour pressure:	No data available						
Density (at 20 °C):	1,01605 g/cm³						
Bulk density:	No data available						
Relative vapour density:	No data available						
9.2. Other information							
Information with regard to physical ha	azard classes						
Oxidizing properties No data available							
Other safety characteristics							
Solvent separation test:	No data available						
Solvent content:	No data available						
Solid content:	No data available						
Evaporation rate:	No data available						
Further Information							
Corrosive to metals							
SECTION 10: Stability and reactivity	SECTION 10: Stability and reactivity						

10.1. Reactivity

Corrosive to metals.

10.2. Chemical stability

Protect against: Light

10.3. Possibility of hazardous reactions

The product develops hydrogen in an aqueous solution in contact with metals.

10.4. Conditions to avoid

Light Heat

10.5. Incompatible materials

Keep away from: Metal. The product develops hydrogen in an aqueous solution in contact with metals.

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

Toxicocinetics, metabolism and distribution

There are no data available on the mixture itself.

Acute toxicity

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



Gardner color standard color index 8 according to DIN EN ISO 4630-1:2004 (D)

Revision date: 27.06.2022

Product code: 21766

Page 8 of 11

CAS No	Chemical name								
	Exposure route Dose Species Source Method								
16921-30-5	dipotassium hexachloroplatinate								
	oral	LD50 mg/kg	195	Rat	Study report (1995)	OECD Guideline 401			

Irritation and corrosivity

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

slightly irritant but not relevant for classification.

Sensitising effects

Contains dipotassium hexachloroplatinate. May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

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 mixture itself.

Additional information on tests

There are no data available on the mixture itself.

Practical experience

There are no data available on the mixture itself.

11.2. Information on other hazards

Other information

There are no data available on the mixture itself.

Further information

Irritant

Allergic reactions

SECTION 12: Ecological information

12.1. Toxicity

There are no data available on the mixture itself.



Gardner color standard color index 8 according to DIN EN ISO 4630-1:2004 (D)

Revision date: 27.06.2022

Product code: 21766

Page 9 of 11

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		
16921-30-5	dipotassium hexachloropl	atinate					
	Acute fish toxicity	LC50 mg/l	76,55	96 h	Oncorhynchus mykiss	Study report (2005)	OECD Guideline 203
	Acute algae toxicity	ErC50	1,3 mg/l	72 h	Desmodesmus subspicatus	Study report (2001)	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	0,0608	48 h	Daphnia magna	Study report (2005)	OECD Guideline 202
	Crustacea toxicity	NOEC mg/l	0,007	21 d	Daphnia magna	J. Fish. Res. Bd. Canada 29: 1691-1700 (A standard guideline was not followed, b
	Acute bacteria toxicity	(EC50 mg/l)	103	3 h	activated sludge of a predominantly domestic sewag	Study report (2015)	OECD Guideline 209

12.2. Persistence and degradability

There are no data available on the mixture itself.

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

<u>12.4. Mobility in soil</u>

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 empty into 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. 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.

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):	8



Gardner color standard color index 8 according to DIN EN ISO 4630-1:2004 (D)				
Revision date: 27.06.2022	Product cod		Page 10 of 11	
14.4. Packing group:	III			
Hazard label:	8			
Classification code:	C1			
Special Provisions:	520			
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 1789			
14.2. UN proper shipping name:	HYDROCHLORIC AC	ID		
<u>14.3. Transport hazard class(es):</u>	8			
14.4. Packing group:	111			
Hazard label:	8			
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 AC	ID		
14.3. Transport hazard class(es):	8			
14.4. Packing group:	Ш			
Hazard label:	8			
Special Provisions:	223			
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 1789			
14.2. UN proper shipping name:	HYDROCHLORIC AC			
14.3. Transport hazard class(es):	8			
14.4. Packing group:	UI			
Hazard label:	8			
Special Provisions:	A3 A803			
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:	No			

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 75



Gardner color standard color index 8 according to DIN EN ISO 4630-1:2004 (D)				
Revision date: 27.06.2022	Product code: 21766	Page 11 of 11		
Information according to 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)			
National regulatory information				
Employment restrictions:	Observe restrictions to employment for juveniles acc work protection guideline' (94/33/EC).	cording to the 'juvenile		
Water hazard class (D):	1 - slightly hazardous to water			
SECTION 16: Other information				

Changes

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

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration, 50% LD50: Lethal dose, 50%

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

Relevant H and EUH statements (number and full text)

H290	May be corrosive to metals.
H301	Toxic if swallowed.
H314	Causes severe skin burns and eye damage.
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.
EUH208	Contains dipotassium hexachloroplatinate. 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 data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)