



according to Regulation (EC) No 1907/2006

### 1414-53 Color Standard Solution

Revision date: 05.06.2018 Product code: 141453 Page 1 of 10

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

#### 1.1. Product identifier

1414-53 Color Standard Solution

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

## Use of the substance/mixture

Water analysis

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

Company name: HACH LANGE GmbH
Street: Willstätterstr. 11
Place: D-40549 Düsseldorf
Telephone: +49 (0)211 5288-383
e-mail: SDS@hach.com
Internet: www.de.hach.com
Responsible Department: HACH LANGE Ltd.

5, Pacific Way

Salford Manchester M50 1DL - United Kingdom Tel. +44 (0) 161 872 1487 \* Fax +44 (0) 161 848 7324

e-Mail: info-uk@hach.com

HACH LANGE Ltd.

Unit 1, Chestnut Road Western Industrial Estate

IRL-Dublin 12

Tel. +353 (0)1 4602522 e-Mail: info-ie@hach.com

1.4. Emergency telephone Poison Control Center Mainz: Tel: +49 (0) 6131 19240 - 24 hour emergency

number: service -

### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

# Regulation (EC) No. 1272/2008

Hazard categories:

Substance or mixture corrosive to metals: Met. Corr. 1

Skin corrosion/irritation: Skin Corr. 1A Serious eye damage/eye irritation: Eye Dam. 1

Respiratory or skin sensitisation: Skin Sens. 1 Respiratory or skin sensitisation: Resp. Sens. 1A

Carcinogenicity: Carc. 1B Hazard Statements: May be corrosive to metals.

Causes severe skin burns and eye damage.

Causes serious eye damage. May cause an allergic skin reaction.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause cancer by inhalation.

## 2.2. Label elements

## Regulation (EC) No. 1272/2008

#### Hazard components for labelling

hydrochloric acid ... %

dipotassium hexachloroplatinate Cobalt(II) chlorid hexahydrate





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Signal word: Danger

Pictograms:





### **Hazard statements**

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction. H350i May cause cancer by inhalation.

#### **Precautionary statements**

P201 Obtain special instructions before use.

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

P284 Wear respiratory protection.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water

or shower.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P310 Immediately call a POISON CENTER/doctor.

## Special labelling of certain mixtures

Restricted to professional users.

# Additional advice on labelling

The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008.

## 2.3. Other hazards

None known.

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

# 3.2. Mixtures



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#### **Hazardous components**

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification according to Regulation (EC) No. 1272/2008 [CLP]				
7732-18-5	Water				
	231-791-2				
	hydrochloric acid %				
	231-595-7	017-002-01-X			
	Met. Corr. 1, Skin Corr. 1B, STOT SE 3; H290 H314 H335				
16921-30-5	dipotassium hexachlor	<0,3 %			
	240-979-3	078-007-00-3			
	Acute Tox. 3, Eye Dam. 1, Resp. Sens. 1A, Skin Sens. 1; H301 H318 H334 H317				
7791-13-1	Cobalt(II) chlorid hexa	<0,1 %			
	231-589-4	027-004-00-5			
	Carc. 1B, Muta. 2, Repr. 1B, Acute Tox. 4, Resp. Sens. 1, Skin Sens. 1, Aquatic Acute 1 (M-Factor = 10), Aquatic Chronic 1 (M-Factor = 10); H350i H341 H360F H302 H334 H317 H400 H410				

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

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

#### 4.1. Description of first aid measures

#### **General information**

Take off all contaminated clothing immediately.

#### After inhalation

Move to fresh air.

Consult a physician. Show this safety data sheet to the doctor in attendance.

### After contact with skin

Wash off immediately with plenty of water for at least 15 minutes.

### After contact with eyes

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Show this safety data sheet to the doctor in attendance.

### After ingestion

Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting.

Consult a physician. Show this safety data sheet to the doctor in attendance.

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

Irritation and corrosion

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

Treat symptomatically.

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

## Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. The product itself does not burn.

# 5.2. Special hazards arising from the substance or mixture

Fire may liberate hazardous vapours.



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#### 5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

#### Additional information

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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

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

Use personal protective equipment.

### 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

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

Soak up with inert absorbent material and dispose of as hazardous waste.

#### 6.4. Reference to other sections

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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

#### 7.1. Precautions for safe handling

#### Advice on safe handling

Use only in well-ventilated areas. Do not breathe vapours/dust.

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

## Requirements for storage rooms and vessels

Keep tightly closed in a dry, cool and well-ventilated place. Protect against light. Accessible only for authorized persons.

### 7.3. Specific end use(s)

Standard solution

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

# 8.1. Control parameters

## Additional advice on limit values

Limit values in other countries:

Poland: Exposure limit(s) Co 0,2 mg/m3

## 8.2. Exposure controls

## Appropriate engineering controls

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

### Protective and hygiene measures

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Wash hands before breaks and after work.

#### Eye/face protection

Safety glasses with side-shields

#### Hand protection

Use barrier skin cream.

Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374. In full contact:

Gloves material: Viton, Layer thickness: 0.70 mm, Breakthrough time: >480 min. In splash contact: Glove





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material: nitrile rubber, Layer thickness 0.40 mm, Breakthrough time: > 30 min

## Skin protection

Remove and wash contaminated clothing before re-use.

### Respiratory protection

Breathing apparatus only if aerosol or dust is formed.

Recommended Filter type: ABEK-filter

## **Environmental exposure controls**

Do not flush into surface water or sanitary sewer system.

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

# 9.1. Information on basic physical and chemical properties

Physical state: liquid

Colour: orange yellow odourless Odour:

pH-Value (at 20 °C): < 1

Changes in the physical state

no data available Melting point: Initial boiling point and boiling range: no data available Sublimation point: Softening point: no data available Pour point: not applicable no data available Flash point: not applicable

Sustaining combustion: No data available

**Flammability** 

Solid: not applicable Gas: not applicable

**Explosive properties** 

no data available

Lower explosion limits: not applicable Upper explosion limits: not applicable Ignition temperature: not applicable

**Auto-ignition temperature** 

Solid: no data available Gas: no data available no data available Decomposition temperature:

Oxidizing properties

no data available

Vapour pressure: 30 hPa

(at 25 °C)

22 hPa Vapour pressure:

(at 20 °C)

1,02 g/cm<sup>3</sup> Density (at 20 °C): Bulk density: no data available Water solubility: completely soluble

(at 20 °C)



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#### Solubility in other solvents

no data available

Partition coefficient: no data available Viscosity / dynamic: no data available Viscosity / kinematic: no data available Flow time: no data available Vapour density: no data available Evaporation rate: no data available no data available Solvent separation test: Solvent content: no data available

9.2. Other information

Solid content: no data available

Corrosive in contact with metals

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Corrosive to metals

## 10.2. Chemical stability

Stable under recommended storage conditions.

## 10.3. Possibility of hazardous reactions

Hazardous polymerisation does not occur.

#### 10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat. Above 300 °C, hazardous fumes may be released. Stable under recommended storage conditions.

# 10.5. Incompatible materials

Alkali metals, Metals,

### 10.6. Hazardous decomposition products

Acid chlorides

### **Further information**

This information is not available.

# **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

# **Acute toxicity**

No data is available on the product itself.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
16921-30-5	dipotassium hexachloroplatinate				
		ATE 100 mg/kg			
7791-13-1	Cobalt(II) chlorid hexahydrate				
	l - · - · ·	ATE 500 mg/kg			





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#### Irritation and corrosivity

Causes skin and eye burns.

#### Sensitising effects

May cause sensitisation by skin contact.

May cause sensitisation by inhalation.

#### Carcinogenic/mutagenic/toxic effects for reproduction

H350i - May cause cancer by inhalation.

#### STOT-single exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

#### STOT-repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

#### **Aspiration hazard**

No aspiration toxicity classification

#### Specific effects in experiment on an animal

No toxicology information is available.

#### **Further information**

Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

Do not flush into surface water or sanitary sewer system.

### 12.2. Persistence and degradability

no data available

# 12.3. Bioaccumulative potential

no data available

## 12.4. Mobility in soil

no data available

#### 12.5. Results of PBT and vPvB assessment

no data available

#### 12.6. Other adverse effects

no data available

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

#### 13.1. Waste treatment methods

#### Advice on disposal

In accordance with local and national regulations.

## Waste disposal number of waste from residues/unused products

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and

discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances,

including mixtures of laboratory chemicals; hazardous waste

#### Waste disposal number of used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and

discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances,

including mixtures of laboratory chemicals; hazardous waste

# **SECTION 14: Transport information**

# Land transport (ADR/RID)



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**14.1. UN number:** UN 1789

14.2. UN proper shipping name: Hydrochloric acid

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



Classification code: C1
Special Provisions: 520
Limited quantity: 1 L
Excepted quantity: E2
Transport category: 2
Hazard No: 80
Tunnel restriction code: E

### Inland waterways transport (ADN)

# Other applicable information (inland waterways transport)

Not tested

## Marine transport (IMDG)

**14.1. UN number:** UN 1789

14.2. UN proper shipping name: HYDROCHLORIC ACID

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



Marine pollutant:

Special Provisions:

Limited quantity:

Excepted quantity:

EmS:

F-A, S-B

Segregation group:

## Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number:** UN 1789

14.2. UN proper shipping name: HYDROCHLORIC ACID

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



Special Provisions:

Limited quantity Passenger:

Passenger LQ:

Excepted quantity:

A3 A803

0.5 L

Y840

Excepted quantity:

E2

IATA-packing instructions - Passenger: 851
IATA-max. quantity - Passenger: 1 L





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IATA-packing instructions - Cargo: 855
IATA-max. quantity - Cargo: 30 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

Use personal protective equipment.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not relevant

Other applicable information

Not relevant

# **SECTION 15: Regulatory information**

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

#### **National regulatory information**

Employment restrictions: Observe restrictions to employment for juvenils 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.

Water contaminating class (D): 2 - clearly water contaminating

Additional information professional use

professional use

Chemical safety assessments for substances in this mixture were not carried out.

### **SECTION 16: Other information**

15.2. Chemical safety assessment

### Changes

Revision Date 5.06.2018

Safety datasheet sections which have been updated: 3, 15

Revision Date 4.05.2017

Safety datasheet sections which have been updated: 2, 11

Revision Date 20.04.2017

Safety datasheet sections which have been updated: 2, 9, 14

Revision: 25.08.2016

Safety datasheet sections which have been updated: 2, 3

Revision: 11.04.2016

Safety datasheet sections which have been updated: 3

Revision: 30.04.2015

Safety datasheet sections which have been updated: 2, 4, 11

Revision Date 15.01.2013

Safety datasheet sections which have been updated:8

#### 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
Skin Corr. 1A; H314	On basis of test data
Eye Dam. 1; H318	On basis of test data
Skin Sens. 1; H317	
Resp. Sens. 1A; H334	Calculation method
Carc. 1B; H350i	Calculation method



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# Relevant H and EUH statements (number and full text)

May be corrosive to metals.
Toxic if swallowed.
Harmful if swallowed.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
Causes serious eye damage.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause respiratory irritation.
Suspected of causing genetic defects.
May cause cancer by inhalation.
May damage fertility.
Very toxic to aquatic life.
Very toxic to aquatic life with long lasting effects.

## **Further Information**

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

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