

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 8.5 Revision Date 20.02.2025 Print Date 02.05.2025

GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

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

1.1 Product identifiers

Product name : Color Reference Solutions acc. to USP

Product Number : 87574

Brand : Sigma-Aldrich

REACH No. :

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

Identified uses : Laboratory chemicals, Manufacture of substances

Uses advised against : For R&D use only. Not for pharmaceutical, household or other

uses.

1.3

CHEMIKART

1.4 Emergency telephone

Emergency Phone # : 000 800 1007 141 (CHEMTREC)

This is a summary SDS for a kit. For the full SDS for each of the components listed in section 16 please visit our website.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Corrosive to Metals, (Category 1) H290: May be corrosive to metals.

Eye irritation, (Category 2) H319: Causes serious eye irritation.

Carcinogenicity, (Category 1B) H350: May cause cancer.

Long-term (chronic) aquatic H412: Harmful to aquatic life with long

hazard, (Category 3) lasting effects.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

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Pictogram

Signal Word Danger

Hazard Statements

H290 May be corrosive to metals. H319 Causes serious eye irritation.

H350 May cause cancer.

H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements

P202 Do not handle until all safety precautions have been read and

understood.

P234 Keep only in original packaging.
P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

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

rinsing.

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

Supplemental Hazard

Statements

none

Reduced Labeling (<= 125 ml)

Pictogram

Signal Word Danger

Hazard Statements

H350 May cause cancer.

H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements

P202 Do not handle until all safety precautions have been read and

understood.

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

Supplemental Hazard

Statements

none

2.3 Other hazards - none

SECTION 3: Composition/information on ingredients

Refer to component SDS

SECTION 4: First aid measures

Refer to component SDS

SECTION 5: Firefighting measures

Refer to component SDS

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SECTION 6: Accidental release measures

Refer to component SDS

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

No metal containers.

Tightly closed. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

Storage class

Storage class (TRGS 510): 6.1D: Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

Refer to component SDS

SECTION 9: Physical and chemical properties

Refer to component SDS

SECTION 10: Stability and reactivity

Refer to component SDS

SECTION 11: Toxicological information

Refer to component SDS

SECTION 12: Ecological information

Refer to component SDS

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SECTION 13: Disposal considerations

Refer to component SDS

SECTION 14: Transport information

14.1 UN number

ADR/RID: 3316 IMDG: 3316 IATA: 3316

14.2 UN proper shipping name

ADR/RID: CHEMICAL KIT IMDG: CHEMICAL KIT IATA: Chemical kit

14.3 Transport hazard class(es)

ADR/RID: 9 IMDG: 9 IATA: 9

14.4 Packaging group

ADR/RID: III IMDG: III IATA: III

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

Tunnel restriction code : (E)

Further information : No data available

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Refer to component SDS

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Kit Components:

Color Reference	Sigma-Aldrich	94288	Met. Corr. 1; Carc. 1B; Aquatic
Solutions acc. to USP			Chronic 3; H290, H350, H412
Color Reference	Sigma-Aldrich	90519	Met. Corr. 1; Carc. 1B; Aquatic
Solutions acc. to USP			Chronic 3; H290, H350, H412
Color Reference	Sigma-Aldrich	92103	Met. Corr. 1; Carc. 1B; Aquatic
Solutions acc. to USP			Chronic 3; H290, H350, H412
Color Reference	Sigma-Aldrich	71294	Met. Corr. 1; Carc. 1B; Aquatic

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Solutions acc. to USP Color Reference Solutions acc. to USP Color Reference Solutions acc. to USP Color Reference Solutions acc. to USP	Sigma-Aldrich Sigma-Aldrich Sigma-Aldrich	95432 95449	Chronic 3; H290, H350, H412 Met. Corr. 1; Carc. 1B; Aquatic Chronic 3; H290, H350, H412 Met. Corr. 1; Carc. 1B; Aquatic Chronic 3; H290, H350, H412 Met. Corr. 1; Carc. 1B; Aquatic Chronic 3; H290, H350, H412
Color Reference Solutions acc. to USP Color Reference Solutions acc. to USP	Sigma-Aldrich Sigma-Aldrich		Met. Corr. 1; Carc. 1B; Aquatic Chronic 3; H290, H350, H412 Met. Corr. 1; Eye Irrit. 2; Carc. 1B; Aquatic Chronic 3; H290, H319, H350, H412
Color Reference Solutions acc. to USP	Sigma-Aldrich	80225	Met. Corr. 1; Eye Irrit. 2; Carc. 1B; Aquatic Chronic 3; H290, H319, H350, H412
Color Reference Solutions acc. to USP	Sigma-Aldrich	72428	Met. Corr. 1; Eye Irrit. 2; Carc. 1B; Aquatic Chronic 3; H290, H319, H350, H412
Color Reference Solutions acc. to USP	Sigma-Aldrich	92191	Met. Corr. 1; Eye Irrit. 2; Carc. 1B; Aquatic Chronic 3; H290, H319, H350, H412
Color Reference Solutions acc. to USP	Sigma-Aldrich	94759	Met. Corr. 1; Eye Irrit. 2; Carc. 1B; Aquatic Chronic 3; H290, H319, H350, H412
Color Reference Solutions acc. to USP	Sigma-Aldrich	76019	Met. Corr. 1; Eye Irrit. 2; H290, H319
Color Reference Solutions acc. to USP	Sigma-Aldrich		Met. Corr. 1; Eye Irrit. 2; Carc. 1B; Aquatic Chronic 3; H290, H319, H350, H412
Color Reference Solutions acc. to USP	Sigma-Aldrich	81251	Met. Corr. 1; Carc. 1B; Aquatic Chronic 3; H290, H350, H412
Color Reference Solutions acc. to USP	Sigma-Aldrich	76883	Met. Corr. 1; Carc. 1B; Aquatic Chronic 3; H290, H350, H412
Color Reference Solutions acc. to USP	Sigma-Aldrich	80294	Met. Corr. 1; Carc. 1B; Aquatic Chronic 3; H290, H350, H412
Color Reference Solutions acc. to USP	Sigma-Aldrich	92512	Met. Corr. 1; Carc. 1B; Aquatic Chronic 3; H290, H350, H412
Color Reference Solutions acc. to USP	Sigma-Aldrich	94116	Met. Corr. 1; Carc. 1B; Aquatic Chronic 3; H290, H350, H412
Hydrochloric acid	Sigma-Aldrich	16233	Met. Corr. 1; H290

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Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM -American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS -Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Classification of the mixture		Classification procedure:
Met. Corr.1	H290	Calculation method
Eye Irrit.2	H319	Calculation method
Carc.1B	H350	Calculation method

H412

Further information

Aquatic Chronic3

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Calculation method

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document regarding the product remains unchanged and matches the product ordered. For further information please contact mlsbranding@sial.com.



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Kit Components:

Color Referen	ce Solutions	acc. to USP			
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Sigma-Aldrich - 94288		Danger	May be corrosive to metals. May cause cancer. Harmful to aquatic life with long lasting effects.	Do not handle until all safety precautions have been read and understood. IF exposed or concerned: Get medical advice/ attention. Keep only in original packaging. Absorb spillage to prevent material damage. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection.	

Color Referen	Color Reference Solutions acc. to USP					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information	
Sigma-Aldrich - 90519		Danger	May be corrosive to metals. May cause cancer. Harmful to aquatic life with long lasting effects.	Do not handle until all safety precautions have been read and understood. IF exposed or concerned: Get medical advice/ attention. Keep only in original packaging. Absorb spillage to prevent material damage. Avoid release to the environment. Wear protective		

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gloves/ protective clothing/ eye
protection/ face
protection.

Color Referen	Color Reference Solutions acc. to USP						
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental		
identifier		Word	Statements	Statements	information		
Sigma-Aldrich - 92103		Danger	May be corrosive to metals. May cause cancer. Harmful to aquatic life with long lasting effects.	Do not handle until all safety precautions have been read and understood. IF exposed or concerned: Get medical advice/ attention. Keep only in original packaging. Absorb spillage to prevent material damage. Avoid release to the environment. Wear protective gloves/			
			/IIK	protective clothing/ eye protection/ face			
				protection.			

Color Referen	Color Reference Solutions acc. to USP					
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental	
identifier		Word	Statements	Statements	information	
Sigma-Aldrich		Danger	May be	Do not handle		
- 71294			corrosive to	until all safety		
			metals.	precautions		
			May cause	have been read		
			cancer.	and understood.		
			Harmful to	IF exposed or		
			aquatic life with	concerned: Get		
			long lasting	medical advice/		
			effects.	attention. Keep		
				only in original		
				packaging.		
				Absorb spillage		
				to prevent		
				material		
				damage. Avoid		
				release to the		
				environment.		
				Wear protective		
				gloves/		

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	protective clothing/ eye protection/ face
	protection.

Color Referen	Color Reference Solutions acc. to USP					
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental	
identifier	_	Word	Statements	Statements	information	
Sigma-Aldrich		Danger	May be	Do not handle		
- 72618			corrosive to	until all safety		
			metals.	precautions		
			May cause	have been read		
			cancer.	and understood.		
			Harmful to	IF exposed or		
			aquatic life with	concerned: Get		
			long lasting	medical advice/		
			effects.	attention. Keep		
				only in original		
				packaging.		
				Absorb spillage		
				to prevent		
				material		
				damage. Avoid release to the		
				environment.		
				Wear protective		
				gloves/		
				protective		
				clothing/ eye		
				protection/ face		
	7			protection, race		

Color Referen	Color Reference Solutions acc. to USP					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information	
Sigma-Aldrich - 95432		Danger	May be corrosive to metals. May cause cancer. Harmful to aquatic life with long lasting effects.	Do not handle until all safety precautions have been read and understood. IF exposed or concerned: Get medical advice/ attention. Keep only in original packaging. Absorb spillage to prevent material damage. Avoid release to the environment. Wear protective gloves/ protective		

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	clothing/ eye	
	protection/ face	
	protection.	

Color Reference Solutions acc. to USP						
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental	
identifier		Word	Statements	Statements	information	
Sigma-Aldrich - 95449		Danger	May be corrosive to metals. May cause cancer. Harmful to aquatic life with long lasting effects.	Do not handle until all safety precautions have been read and understood. IF exposed or concerned: Get medical advice/ attention. Keep only in original packaging. Absorb spillage to prevent material damage. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face		

Color Reference Solutions acc. to USP					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - 73188		Danger	May be corrosive to metals. May cause cancer. Harmful to aquatic life with long lasting effects.	Do not handle until all safety precautions have been read and understood. IF exposed or concerned: Get medical advice/ attention. Keep only in original packaging. Absorb spillage to prevent material damage. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye	

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		protection/ face	
		protection.	

Color Reference Solutions acc. to USP					
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Sigma-Aldrich - 95458		Danger	May be corrosive to metals. Causes serious eye irritation. May cause cancer. Harmful to aquatic life with long lasting effects.	Do not handle until all safety precautions have been read and understood. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep only in original packaging. IF exposed or concerned: Get medical advice/ attention. Wash skin thoroughly after handling. Avoid release to the environment.	

Color Referen	ce Solutions	acc. to US	P		
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - 80225		Danger	May be corrosive to metals. Causes serious eye irritation. May cause cancer. Harmful to aquatic life with long lasting effects.	Do not handle until all safety precautions have been read and understood. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep only in original packaging. IF exposed or	

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concerned: Get
medical advice/
attention.
Wash skin
thoroughly after
handling.
Avoid release to
the
environment.

Color Reference Solutions acc. to USP					
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Sigma-Aldrich		Danger	May be	Do not handle	
- 72428			corrosive to	until all safety	
			metals.	precautions	
			Causes serious	have been read	
			eye irritation.	and understood.	
			May cause	IF IN EYES:	
			cancer.	Rinse cautiously	
			Harmful to	with water for	
			aquatic life with	several minutes.	
			long lasting	Remove contact	
			effects.	lenses, if	
				present and	
				easy to do.	
				Continue	
				rinsing. Keep	
				only in original	
	_			packaging. IF	
				exposed or	
				concerned: Get	
				medical advice/	
				attention.	
				Wash skin	
				thoroughly after	
				handling. Avoid release to	
				the	
				environment.	

Color Reference Solutions acc. to USP						
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information	
Sigma-Aldrich - 92191		Danger	May be corrosive to metals. Causes serious eye irritation. May cause cancer. Harmful to aquatic life with long lasting effects.	Do not handle until all safety precautions have been read and understood. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if		

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present and
easy to do.
Continue
rinsing. Keep
only in original
packaging. IF
exposed or
concerned: Get
medical advice/
attention.
Wash skin
thoroughly after
handling.
Avoid release to
the
environment.

Color Reference Solutions acc. to USP					
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Sigma-Aldrich		Danger	May be	Do not handle	
- 94759			corrosive to	until all safety	
			metals.	precautions	
			Causes serious	have been read	
			eye irritation.	and understood.	
			May cause	IF IN EYES:	
			cancer.	Rinse cautiously	
			Harmful to	with water for	
			aquatic life with	several minutes.	
			long lasting	Remove contact	
			effects.	lenses, if	
				present and	
				easy to do.	
				Continue	
				rinsing. Keep	
				only in original	
				packaging. IF	
				exposed or	
				concerned: Get	
				medical advice/ attention.	
				Wash skin	
				thoroughly after	
				handling.	
				Avoid release to	
				the	
				environment.	

Color Referen	Color Reference Solutions acc. to USP					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information	
Sigma-Aldrich - 76019		Warning	May be corrosive to metals. Causes serious	Keep only in original packaging. IF IN EYES: Rinse		

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eye irritation.	cautiously with	
	water for	
	several minutes.	
	Remove contact	
	lenses, if	
	present and	
	easy to do.	
	Continue	
	rinsing. Wash	
	skin thoroughly	
	after handling. If	
	eye irritation	
	persists: Get	
	medical advice/	
	-	
	attention.	
	Wear eye	
	protection/ face	
	protection.	
	Absorb spillage	
	to prevent	
	material	
	damage.	

Color Referen				1	1
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Sigma-Aldrich		Danger	May be	Do not handle	
- 80299			corrosive to	until all safety	
			metals.	precautions	
			Causes serious	have been read	
			eye irritation.	and understood.	
			May cause	IF IN EYES:	
			cancer.	Rinse cautiously	
			Harmful to	with water for	
			aquatic life with	several minutes.	
			long lasting	Remove contact	
			effects.	lenses, if	
				present and	
				easy to do.	
				Continue	
				rinsing. Keep	
				only in original	
				packaging. IF exposed or	
				concerned: Get	
				medical advice/	
				attention.	
				Wash skin	
				thoroughly after	
				handling.	
				Avoid release to	
				the	
				environment.	

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Color Referen	Color Reference Solutions acc. to USP							
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental			
identifier		Word	Statements	Statements	information			
Sigma-Aldrich - 81251		Danger	May be corrosive to metals. May cause cancer. Harmful to aquatic life with long lasting effects.	Do not handle until all safety precautions have been read and understood. IF exposed or concerned: Get medical advice/ attention. Keep only in original packaging. Absorb spillage to prevent material damage. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection.				

Color Reference Solutions acc. to USP							
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental		
identifier		Word	Statements	Statements	information		
Sigma-Aldrich - 76883		Danger	May be corrosive to metals. May cause cancer. Harmful to aquatic life with long lasting effects.	Do not handle until all safety precautions have been read and understood. IF exposed or concerned: Get medical advice/ attention. Keep only in original packaging. Absorb spillage to prevent material damage. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection.			

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Color Reference Solutions acc. to USP						
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental	
identifier		Word	Statements	Statements	information	
Sigma-Aldrich - 80294		Danger	May be corrosive to metals. May cause cancer. Harmful to aquatic life with long lasting effects.	Do not handle until all safety precautions have been read and understood. IF exposed or concerned: Get medical advice/ attention. Keep only in original packaging. Absorb spillage to prevent material damage. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection.	Information	

Color Reference Solutions acc. to USP							
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental		
identifier		Word	Statements	Statements	information		
Sigma-Aldrich - 92512		Danger	May be corrosive to metals. May cause cancer. Harmful to aquatic life with long lasting effects.	Do not handle until all safety precautions have been read and understood. IF exposed or concerned: Get medical advice/ attention. Keep only in original packaging. Absorb spillage to prevent material damage. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection.			

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Color Reference Solutions acc. to USP						
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental	
identifier		Word	Statements	Statements	information	
Sigma-Aldrich - 94116		Danger	May be corrosive to metals. May cause cancer. Harmful to aquatic life with long lasting effects.	Do not handle until all safety precautions have been read and understood. IF exposed or concerned: Get medical advice/ attention. Keep only in original packaging. Absorb spillage to prevent material damage. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection.		

Hydrochloric acid						
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information	
Sigma-Aldrich - 16233		Warning	May be corrosive to metals.	Keep only in original packaging. Absorb spillage to prevent material damage.		

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