

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 8.9

Revision Date 09.01.2025

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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 Ph Eur

Product Number : 86293
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 Details of the supplier of the safety data sheet**

Company :

1.4 Emergency telephoneEmergency Phone # : +(44)-870-8200418 (CHEMTREC (GB))
+(353)-19014670 (CHEMTREC Ireland)
001-803-017-9114 (CHEMTREC India)

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.

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

Long-term (chronic) aquatic hazard, (Category 3) H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements**Labelling according Regulation (EC) No 1272/2008**

Pictogram



Signal Word

Danger



Hazard Statements	
H290	May be corrosive to metals.
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.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P390	Absorb spillage to prevent material damage.
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.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
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

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



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

Further information : No data available

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	72024	Met. Corr. 1; Carc. 1B; Aquatic Chronic 3; H290, H350, H412
Solutions acc. to Ph Eur	Sigma-Aldrich	73183	Met. Corr. 1; Carc. 1B; Aquatic Chronic 3; H290, H350, H412
Color Reference	Sigma-Aldrich	71984	Met. Corr. 1; Carc. 1B; Aquatic Chronic 3; H290, H350, H412
Solutions acc. to Ph Eur	Sigma-Aldrich	72429	Met. Corr. 1; Carc. 1B; Aquatic Chronic 3; H290, H350, H412
Color Reference	Sigma-Aldrich	77094	Met. Corr. 1; Carc. 1B; H290, H350
Solutions acc. to Ph Eur	Sigma-Aldrich	75916	Met. Corr. 1; H290
Color Reference	Sigma-Aldrich	71983	Met. Corr. 1; H290
Solutions BY7			
Hydrochloric acid solution	Katayama	13-1700	Met. Corr. 1; H290



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

Met. Corr.1	H290
Carc.1B	H350
Aquatic Chronic3	H412

Classification procedure:

Calculation method
Calculation method
Calculation method

Further information

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.

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



Kit Components:


Color Reference Solutions acc. to Ph Eur					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - 72024		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 Ph Eur					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - 73183		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 Ph Eur

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - 71984		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 Ph Eur

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - 72429		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 Ph Eur

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - 77094		Danger	May be corrosive to metals. May cause cancer.	Do not handle until all safety precautions have been read and understood. IF exposed or concerned: Get medical advice/ attention. Store locked up. Keep only in original packaging. Absorb spillage to prevent material damage. Wear protective gloves/ protective clothing/ eye protection/ face protection.	


Color Reference Solutions BY6

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - 75916		Warning	May be corrosive to metals.	Keep only in original packaging. Absorb spillage to prevent material damage.	

Color Reference Solutions BY7

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - 71983		Warning	May be corrosive to metals.	Keep only in original packaging. Absorb spillage to prevent material damage.	



Hydrochloric acid solution					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Katayama - 13-1700		Warning	May be corrosive to metals.	Keep only in original packaging. Absorb spillage to prevent material damage.	

