Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing 13.08.2026 version number 14 (replaces version 13) Revision: 13.08.2026

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

***1.1 Product identifier**
***Trade name:** **USP COLOUR STANDARD**
CUPRIC SULFATE CS

***Article number:** USPCS101
***Registration number**
A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.
***UFI:** PSC0-60XW-N00C-FD8G
***1.2 Relevant identified uses of the substance or mixture and uses advised against**
***Product category** For experiments, research, or testing purposes only. Prohibited of use for other purposes.
***Application of the substance / the mixture** Laboratory Chemicals

***1.3 Details of the supplier of the safety data sheet**
***Manufacturer/Supplier:**
Reagecon Diagnostics Ltd.
Shannon Free Zone,
Shannon,
Co. Clare,
Ireland.
Tel +353 61 472622
Fax +353 61 472642

***Further information obtainable by contacting:** sds@reagecon.ie
***1.4 Emergency telephone number:**
National Poisons Information Centre: +353 (1) 809 2166 (8.00 a.m. to 10.00 p.m. 7 days a week)
Healthcare Professionals: +353 (1) 809 2566 (24 hour service)

For Hazardous Materials [or Dangerous Goods] Incident
Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC
For Ireland call +(353)-19014670
For Outside Ireland call +1 703-741-5970 / 1-800-424-9300 CCN849800

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SECTION 2: Hazards identification

***2.1 Classification of the substance or mixture**
***Classification according to Regulation (EC) No 1272/2008**



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

***2.2 Label elements**
***Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
***Hazard pictograms**



GHS09

***Signal word** Void
***Hazard statements**
H411 Toxic to aquatic life with long lasting effects.
***Precautionary statements**
P273 Avoid release to the environment.

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P391 Collect spillage.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
***2.3 Other hazards**
***Results of PBT and vPvB assessment**
***PBT:** Not applicable
***vPvB:** Not applicable

*
SECTION 3: Composition/information on ingredients

***3.2 Mixtures**
***Description:** Mixture of substances listed below with nonhazardous additions.

***Dangerous components:**		
CAS: 7758-98-7 EINECS: 231-847-6	copper sulphate Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	≥2.5-<10%
CAS: 7647-01-0 EINECS: 231-595-7 Reg.nr.: 01-2119484862-27-0107	hydrochloric acid 37% Acute Tox. 3, H311; Skin Corr. 1B, H314; Eye Dam. 1, H318; STOT SE 3, H335 Specific concentration limits: Skin Corr. 1B; H314: C ≥ 25 % Skin Irrit. 2; H315: 10 % ≤ C < 25 % Eye Irrit. 2; H319: 10 % ≤ C < 25 % STOT SE 3; C ≥ 10 %	≥1-≤2.5%

***Additional information:** For the wording of the listed hazard phrases refer to section 16.

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SECTION 4: First aid measures

***4.1 Description of first aid measures**
***General information:**
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
***After inhalation:**
Provide fresh air, warmth and rest. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Obtain medical attention if any discomfort continues.
In case of unconsciousness place patient stably in side position for transportation.
***After skin contact:**
Remove contaminated clothing and rinse skin thoroughly with water. Get medical attention if any discomfort continues.
***After eye contact:**
Promptly wash eyes with plenty of water for up to 15 minutes. Open eyes wide apart and rinse well to remove any contact lenses. Do not remove contact lenses by hand. Continue to rinse.. If symptoms persist, consult a doctor.
***After swallowing:**
Do not induce vomiting; call for medical help immediately. Rinse mouth thoroughly with water and give large amounts of water to drink. Never give anything by mouth to an unconscious person.
***4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
***4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

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SECTION 5: Firefighting measures

***5.1 Extinguishing media**
***Suitable extinguishing agents:**
Indications shall be given whether any extinguishing media are inappropriate for a particular situation involving the substance or mixture
Use fire extinguishing methods suitable to surrounding conditions.
***5.2 Special hazards arising from the substance or mixture** No further relevant information available.
***5.3 Advice for firefighters**
***Protective equipment:** Mount respiratory protective device.

*
SECTION 6: Accidental release measures

***6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment as described in Section 8 below. Keep unprotected persons away.
***6.2 Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
***6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
***6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

*
SECTION 7: Handling and storage

***7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
***Information about fire - and explosion protection:** No special measures required.

***7.2 Conditions for safe storage, including any incompatibilities**
***Storage:**
***Requirements to be met by storerooms and receptacles:** No special requirements.
***Information about storage in one common storage facility:** Not required
***Further information about storage conditions:** Keep receptacle tightly sealed.
***7.3 Specific end use(s)** No further relevant information available.

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SECTION 8: Exposure controls/personal protection

***8.1 Control parameters**
***Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
***Additional information:** The lists valid during the making were used as basis.

***8.2 Exposure controls**
***Appropriate engineering controls** No further data; see section 7.
***Individual protection measures, such as personal protective equipment**
***General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.

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Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

***Respiratory protection:**
Not required
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
Where risk assessment shows air-purifying respirators are appropriate use a respirator with multi-purpose combination (US) or type ABEK (EN14387) respirator cartridges as back up to engineering controls. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

***Hand protection**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Always ensure that gloves are inspected before use.
Selection of protective gloves must include consideration of the penetration times along with rates of diffusion and degradation. The selected glove should comply with the specifications of EU Directive 89/686/EEC and the standard EN374 derived from it.

***Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.
Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

***Penetration time of glove material**
In the absence of data above, the exact break through time has to be sourced from the manufacturer of the protective gloves and has to be observed.

***Eye/face protection**



Tightly sealed goggles: Use equipment for eye protection tested and approved under appropriate government standards
such as NIOSH (US) or EN 166(EU)

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SECTION 9: Physical and chemical properties

***9.1 Information on basic physical and chemical properties**	
***General Information**	
***Physical state**	Liquid
***Colour:**	According to product specification
***Odour:**	Characteristic
***Odour threshold:**	Not determined
***Melting point/freezing point:**	Undetermined
***Boiling point or initial boiling point and boiling range**	100 °C
***Flammability**	Not applicable
***Lower and upper explosion limit**	
***Lower:**	Not determined
***Upper:**	Not determined
***Flash point:**	Not applicable
***Decomposition temperature:**	Not determined
***pH**	Not determined
***Viscosity:**	
***Kinematic viscosity**	Not determined
***Dynamic:**	Not determined
***Solubility**	
***water:**	Not miscible or difficult to mix.
***Partition coefficient n-octanol/water (log value)**	Not determined
***Vapour pressure at 20 °C:**	23 hPa
***Density and/or relative density**	
***Density at 20 °C:**	1.16438 g/cm³
***Relative density**	Not determined
***Vapour density**	Not determined
***Particle characteristics**	Not applicable

***9.2 Other information**	
***Appearance:**	
***Form:**	Liquid
***Important information on protection of health and environment, and on safety.**	
***Ignition temperature:**	Product is not selfigniting.
***Explosive properties:**	Product does not present an explosion hazard.
***Change in condition**	
***Evaporation rate**	Not determined

***Information with regard to physical hazard classes**	
***Explosives**	Void
***Flammable gases**	Void
***Aerosols**	Void
***Oxidising gases**	Void
***Gases under pressure**	Void
***Flammable liquids**	Void
***Flammable solids**	Void
***Self-reactive substances and mixtures**	Void
***Pyrophoric liquids**	Void
***Pyrophoric solids**	Void
***Self-heating substances and mixtures**	Void
***Substances and mixtures, which emit flammable gases in contact with water**	Void
***Oxidising liquids**	Void
***Oxidising solids**	Void

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***Organic peroxides**	Void
***Corrosive to metals**	Void
***Desensitised explosives**	Void

SECTION 10: Stability and reactivity

***10.1 Reactivity** No further relevant information available.
***10.2 Chemical stability**
***Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
***10.3 Possibility of hazardous reactions** No dangerous reactions known.
***10.4 Conditions to avoid** No further relevant information available.
***10.5 Incompatible materials:** No further relevant information available.
***10.6 Hazardous decomposition products:** No dangerous decomposition products known.

*
SECTION 11: Toxicological information

***11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
***Acute toxicity** Based on available data, the classification criteria are not met.
***Primary irritant effect:**
***Skin corrosion/irritation** Based on available data, the classification criteria are not met.
***Serious eye damage/irritation** Based on available data, the classification criteria are not met.
***Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
***Germ cell mutagenicity** Based on available data, the classification criteria are not met.
***Carcinogenicity** Based on available data, the classification criteria are not met.
***Reproductive toxicity** 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.
***11.2 Information on other hazards**

***Endocrine disrupting properties**
None of the ingredients is listed.

*
SECTION 12: Ecological information

***12.1 Toxicity**
***Aquatic toxicity:** No further relevant information available.
***12.2 Persistence and degradability** No further relevant information available.
***12.3 Bioaccumulative potential** No further relevant information available.
***12.4 Mobility in soil** No further relevant information available.
***12.5 Results of PBT and vPvB assessment**
***PBT:** Not applicable
***vPvB:** Not applicable
***12.6 Endocrine disrupting properties**
The product does not contain substances with endocrine disrupting properties.
***12.7 Other adverse effects**
***Remark:** Toxic for fish
***Additional ecological information:**
***General notes:**
Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.

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Toxic for aquatic organisms

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SECTION 13: Disposal considerations

***13.1 Waste treatment methods**
***Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

***European waste catalogue**	
HP14	Ecotoxic

***Uncleaned packaging:**
***Recommendation:** Disposal must be made according to official regulations.

*
SECTION 14: Transport information

***14.1 UN number or ID number**	
***ADR, IMDG, IATA**	UN3082
***14.2 UN proper shipping name**	
***ADR**	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (copper sulphate)
***IMDG**	1760 CORROSIVE LIQUID, N.O.S. (HYDROCHLORIC ACID), ENVIRONMENTALLY HAZARDOUS ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (copper sulphate), MARINE POLLUTANT
***IATA**	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (copper sulphate)
***14.3 Transport hazard class(es)**	
***ADR, IMDG, IATA**	
***Class**	9 Miscellaneous dangerous substances and articles.
***Label**	9
***14.4 Packing group**	
***ADR, IMDG, IATA**	III
***14.5 Environmental hazards:**	
***Marine pollutant:**	Yes Symbol (fish and tree)
***Special marking (ADR):**	Symbol (fish and tree)
***Special marking (IATA):**	Symbol (fish and tree)
***14.6 Special precautions for user**	Warning: Miscellaneous dangerous substances and articles.
***Hazard identification number (Kemler code):**	90
***EMS Number:**	F-A,S-F
***Stowage Category**	A
***14.7 Maritime transport in bulk according to IMO instruments**	Not applicable

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***Transport/Additional information:**	
***ADR**	
***Limited quantities (LQ)**	5L
***Transport category**	3
***Tunnel restriction code**	(-)
***UN "Model Regulation":**	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (COPPER SULPHATE), 9, III

*
SECTION 15: Regulatory information

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

***Directive 2012/18/EU**
***Named dangerous substances - ANNEX I** None of the ingredients is listed.
***Seveso category** E2 Hazardous to the Aquatic Environment
***Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
***Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
***REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
***Additional information on Entry 78**
The estimated overall proportion of microplastics in the mixture is approx. %
Process the product in closed systems or with suitable extraction/filtering techniques avoid release to soil wastewater surface water
Preferably clean equipment surfaces mechanically after use e g cloths collect residues as solid waste
Collect cleaning waters separately and forward them to appropriate disposal do not discharge into the sewer system
Collect product residues and contaminated packaging in closed containers do not rinse dispose of in accordance with legal requirements

***DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**
None of the ingredients is listed.

***REGULATION (EU) 2019/1148**

***Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**
None of the ingredients is listed.

***Annex II - REPORTABLE EXPLOSIVES PRECURSORS**
None of the ingredients is listed.

***Regulation (EC) No 273/2004 on drug precursors**
None of the ingredients is listed.

***Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**
None of the ingredients is listed.

***National regulations:**

***Breakdown regulations:**

Class	Share in %
Wasser	91.2
III	6.3

***Waterhazard class:** Water hazard class 3 (Self-assessment):extremely hazardous for water.

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***15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.*

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SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
This Safety Data Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

***Relevant Phrases:**
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

***Department issuing SDS:** Health and Safety*
***Contact:** sds@reagecon.ie*
***Date of previous version:** 06.03.2025*
***Version number of previous version:** 13*
***Abbreviations and acronyms:**
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
REACH (Registration, Evaluation, Authorisation and restriction of Chemicals)
ADR: Accord relatif au transport international 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 Harmonised 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 (division of the American Chemical Society)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 3: Acute toxicity – Category 3
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
***NO**