

**Material Safety Data Sheet: CCP Stop Solution**

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0	Documento nuovo	Prepared Verified	Lepori Elena Lippi Annalisa	24/04/2008
Rev.	Revision description	Approved State	Izzo Crescenzo Funzione	Issue date

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**Issue date rev. 0: see heading**

## 1 IDENTIFICATION OF THE PRODUCT AND OF THE MANUFACTURER

### 1.1 Product identification

Commercial product name: **CCP Stop Solution**, code **3666** (<5% sulphuric acid in water).  
 It is contained in CCP ELISA kit Ref. 39513.

### 1.2 Use of the preparation

For stopping the colorimetric reaction in CCP ELISA kit Ref. 39513 .

### 1.3 Manufacturer and Distributor identification

#### Manufacturer / Distributor

A. Menarini Diagnostics s.r.l.  
 Headoffice: via Sette Santi,3 – 50131 Firenze – Italy  
 Tel. +39-055-56801 – Fax +39-055-5680902  
 E-mail: [diagintmkt@menarini.it](mailto:diagintmkt@menarini.it)

### 1.4 Emergency telephone

For emergencies and chemical support call:  
 A.Menarini Manufacturing Logistics and Services  
 Controllo Qualità - Divisione Diagnostica  
 Via Livornese 897, 56010 S. Piero a Grado - Pisa - Italy  
 Telefono: +39-050-9710215 (office hours)  
 Telefax: +39-050-960054  
 E-mail: [sds@menarini.it](mailto:sds@menarini.it)

## 2 HAZARDS IDENTIFICATION

The product **CCP Stop Solution** is not classified as a dangerous preparation according to 1999/45/EC, 67/548/EEC, 2001/58/EC directives and following amendments and modifications.

Harmful properties may not be excluded, therefore in case of accident or if you feel unwell, immediately seek medical advice:

<b>Potential health effects</b>	
Eye	Causes chemical burns. May cause irreversible damage to the eye.
Skin contact	Causes chemical burns.
Skin absorption	Harmful if absorbed through the skin.
Ingestion	Causes gastrointestinal tract chemical burns.
Inhalation	Causes respiratory tract chemical burns.

However no risks are anticipated when the product is handled by authorized and qualified personnel with the precautions required for chemical/diagnostic reagents.

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Rev 0 Page 2 of 7**3 COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredient	CAS #	Conc.	Indications of danger and R-phrases	EINECS/ELINCS
SULFURIC ACID	7664-93-9	<5 %	C, R 35 (for conc $\geq$ 15%) Xi, R36/38 (5% $\leq$ conc<15%)	231-639-5

For indications of danger (C, Xi) and R-phrases see heading 16.

**4 FIRST AID MEASURES****ACUTE EXPOSURE:****Eye Contact**

Flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician immediately.

**Skin Contact**

Flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash contaminated clothing before use and dispose of shoes. Call a physician.

**Inhalation**

Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

**Ingestion**

Wash out mouth with water provided person is conscious. Do not induce vomiting. Call a physician immediately.

**CHRONIC EXPOSURE:**For Sulfuric Acid

Long term exposure to mist or vapors may cause damage to lungs and teeth.

**5 FIRE-FIGHTING MEASURES**

**Extinguishing media:** dry chemical powder, carbon dioxide or appropriate foam.

**Fire-fighting procedures:** wear protective clothing to prevent contact with skin and eyes.

Wear a self-contained breathing apparatus (SCBA) to prevent inhalation of combustion products.

**Unusual fire and explosion hazards:** emits toxic fumes under fire conditions.

**6 ACCIDENTAL RELEASE MEASURES**

**Individual protection:** Wear appropriate personal protective equipment as specified in section 8.

**Environmental precautions and cleaning methods:** clean up spills or leaks immediately. Ventilate area.

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Contain and recover liquid when possible. Neutralize with alkaline material, then absorb with an inert material (vermiculite, dry sand, earth, etc.) and place in a closed chemical waste container for disposal. Dispose of waste in accordance with all applicable governmental environmental regulations.

**7 HANDLING AND STORAGE****7.1 Handling**

Wash thoroughly after handling. Do not get in eyes, on skin or on clothing. Remove contaminated clothing and wash before reuse. Containers of this material may be hazardous when empty since they retain product residue (vapours, liquid). Observe all warnings and precautions listed for the product.

**7.2 Storage**

Keep container tightly closed when not in use. Store in a cool, dry, well-ventilated storage area (2-8°C). Protect from physical damage. Store away from incompatible materials.

**7.3 Specific use(s)**

The product is intended for IN VITRO diagnostic use only.

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Exposure limits values**

For Sulfuric Acid:

## A) OCCUPATIONAL

- ITALY: N.A.
- EUROPEAN COMMUNITY: N.A.
- ACGIH THRESHOLD LIMIT VALUE (TLV) = 1mg/m<sup>3</sup> (TWA); 3 mg/m<sup>3</sup> (STEL)
- Note:  
Currently recommended monitoring procedures:  
NIOSH Analytical Method, 1994: Acids, Inorganic, 7903

## B) BIOLOGICAL

- ITALY: N.A.
- EUROPEAN COMMUNITY: N.A.
- ACGIH: N.A.

**8.2 Exposure controls****8.2.1 Occupational exposure controls**

**Ventilation system:** a system of local exhaust is recommended.

**8.2.1.1 Respiratory protection**

Not required

**8.2.1.2 Hand protection**

Disposable neoprene or latex gloves.

Breakthrough time of the glove material: follow the supplier instructions. In any case throw away after use.

Wash hands before breaks and at the end of work.

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Use chemical safety goggles. Chemical face shield also recommended where splashing is possible. Maintain eye wash fountain facilities in work area.

**8.2.1.4 Skin protection**

Wear protective clothing, lab coat, apron or coveralls – as appropriate – to prevent skin contact. Maintain safety shower facilities in work area.

**8.2.2 Environmental exposure controls**

No data yet available.

**9 PHYSICAL AND CHEMICAL PROPERTIES****9.1 General information**

**Appearance:** liquid

**Colour:** colourless

**Odour:** no characteristic odour

**9.2 Important health, safety and environmental information**

**pH:** Not available

**Boiling point:** approximately 100°C at 760 mm Hg

**Flash point:** Not available

**Explosion limit:** Not available

**Vapour tension:** Not available

**Vapour pressure:** Not available

**Relative density:** : ~1.07 g/cm<sup>3</sup>

**Solubility:** completely miscible in water

**9.3 Other information**

**Oxidising properties:** Not available

**Vapor density (air = 1):** Not available

**Evaporation rate (butyl acetate = 1):** Not available

**VOC content:** none

**% volatiles by volume:** 0

**Water reactive:** no

**10 STABILITY AND REACTIVITY**

**STABILITY:** stable under ordinary conditions of use and storage.

**HAZARDOUS POLYMERIZATION:** will not occur.

**10.1 Conditions to avoid**

Incompatible materials, metals, excess heat, combustible materials, oxidizers, amines, bases.

**10.2 Materials to avoid**

Acetic anhydride, acetone cyanhydrin, acetone + nitric acid, acetone + potassium dichromate, acetonitrile, acrolein, acrylonitrile, alcohols + hydrogen peroxide, allyl alcohol, allyl chloride, 2-aminoethanol, ammonium hydroxide, ammonium triperchromate, aniline, bromates + metals, azides, bromine pentafluoride, n-butyraldehyde, carbides, cesium acetylene carbide, chlorates, chlorine trifluoride, chlorosulfonic acid, cuprous nitride, diisobutylene, epichlorohydrin, ethylene cyanohydrin, ethylene diamine, ethylene glycol, ethylenimine, fulminates, other acids, iodine heptafluoride, metals, isoprene,

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lithium silicide, mercuric nitride, mesityl oxide, p-nitrotoluene, pentasilver trihydroxydiaminophosphate, perchlorates, permanganates + benzene, phosphorus, phosphorus isocyanate, picrates, potassium t-butoxide, potassium chlorate, permanganates, beta-propiolactone, propylene oxide, pyridine, rubidium acetylene carbide and sodium.

**10.3 Hazardous decomposition products**

Toxic fumes of oxides of sulphur when heated to decomposition. Reacts with carbonates to generate carbon dioxide gas, and with cyanides and sulphides to form poisonous hydrogen cyanide and hydrogen sulphide, respectively.

**11 TOXICOLOGICAL INFORMATION**

**RTECS#:** CAS# 7664-93-9: WS5600000

**LD50/LC50:**

SULFURIC ACID - CAS# 7664-93-9:  
Inhalation, mouse: LC50 = 320mg/m<sup>3</sup>/2 HR  
Inhalation, rat: LC50 = 510mg/m<sup>3</sup>/2 HR  
Oral, rat: LD50 = 2140 mg/kg

**CARCINOGENICITY:**

SULFURIC ACID:  
ACGIH: A2 – suspected human carcinogen (contained in strong inorganic acid mists)  
OSHA: select carcinogen  
IARC: group 1 carcinogen

**EPIDEMIOLOGY:**

IARC has classified “strong inorganic acid mists containing sulphuric acid” as a known human carcinogen. A statistical increase in laryngeal cancer has been found in workers exposed to sulphuric acid mist. This classification applies only to mists containing sulphuric acid and not to sulphuric acid or sulphuric acid solutions.

**TERATOGENICITY:** no data available

**REPRODUCTIVE EFFECTS:** no data available

**NEUROTOXICITY:** no data available

**MUTAGENICITY:** no data available

**12 ECOLOGICAL INFORMATION****12.1 Ecotoxicity**SULFURIC ACID

Sulfuric acid is harmful to aquatic life in very low concentrations. LC50 flounder 100 to 350 mg/L/48 hr aerated water/conditions of bioassay not specified. LC50 shrimp 80 to 90 mg/L/48 hr aerated water/conditions of bioassay not specified. LC50 prawn 42.5 ppm/48 hr salt water/conditions of bioassay not specified.

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When released into the soil, this material may leach into groundwater. When released into the air, this material may be removed from the atmosphere to a moderate extent by wet deposition or by dry deposition.

**12.3 Persistence and degradability**

No data yet available.

**12.4 Bioaccumulative potential**

No data yet available.

**12.5 Other adverse effects**

No data yet available.

**13 DISPOSAL CONSIDERATIONS**

Observe all governmental environmental regulations for waste disposal. Chemical waste generators must determine if a discarded chemical is classified as a hazardous waste. Contact a licensed professional waste disposal service for disposal of unused product.

**14 TRANSPORT INFORMATION**

The product is not dangerous according to ADR/RID, IMO and IATA regulations.

**15 REGULATORY INFORMATION****INFORMATION SHOWN ON THE LABEL**

**Trade name of the preparation:** REF 3666 CCP Stop Solution

**Responsible for placing on the market:**

A. Menarini Diagnostics s.r.l.  
via Sette Santi,3 – 50131 Firenze – Italy

**Chemical name of the substance contained in the preparation:** Sulfuric Acid

**Symbol of danger:** none

**Indications of danger:** none

**Risk phrases (R):** none

**Safety phrases (S):** none

**Directives:** 1999/45/EC, 67/548/EEC, 2001/58/EC directives and following amendments and modification.

**Specific provision in relation to protection of man or the environment at community level:**

**Restriction on marketing:** Not available

**Occupational exposure limit values:** see heading 8.

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**16 OTHER INFORMATION****NOT FOR USE IN HUMANS**

The information herein contained is based on current knowledge and we disclaim any responsibility for the final use of the product. The receiver is the only responsible for the compliance to applicable local regulations.

Indications of danger and R phrases listed in heading **3**:

C : Corrosive

Xi : Irritant

R 35 : Causes severe burns

R36/38 : Irritating to eyes and skin

**Decoding:**

N.A. = Not Available

ACGIH = American Conference Governmental Industrial Hygienist

IARC = International Agency for Research on Cancer

OSHA = Occupational Safety and Health Administration