

# SAFETY DATA SHEET

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Revision Date 01/26/2015

Version 1.2

## SECTION 1. Identification

### Product identifier

Catalog No. 114540  
Product name COD Cell Test Method: photometric 10 - 150 mg/l Spectroquant®

COD

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

Identified uses Reagent for analysis

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

Company EMD Millipore Corporation | 290 Concord Road, Billerica, MA 01821,  
United States of America | General Inquiries: +1-978-715-4321 |  
Monday to Friday, 9:00 AM to 4:00 PM Eastern Time (GMT-5)

Emergency telephone 800-424-9300 CHEMTREC (USA)  
+1-703-527-3887 CHEMTREC (International)  
24 Hours/day; 7 Days/week

## SECTION 2. Hazards identification

### GHS Classification

Corrosive to Metals, Category 1, H290  
Acute toxicity, Category 4, Oral, H302  
Acute toxicity, Category 4, Inhalation, H332  
Acute toxicity, Category 3, Dermal, H311  
Skin corrosion, Category 1A, H314  
Serious eye damage, Category 1, H318  
Respiratory sensitization, Category 1, H334  
Skin sensitization, Category 1, H317  
Germ cell mutagenicity, Category 1B, H340  
Carcinogenicity, Category 1B, H350  
Reproductive toxicity, Category 1B, H360  
Specific target organ systemic toxicity - repeated exposure, Category 2, Kidney, H373  
For the full text of the H-Statements mentioned in this Section, see Section 16.

### GHS-Labeling

Hazard pictograms



## SAFETY DATA SHEET

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number	114540
Product name	COD Cell Test Method: photometric 10 - 150 mg/l Spectroquant® COD

---

Version1.2

### *Signal Word*

Danger

### *Hazard Statements*

H340 May cause genetic defects.

H350 May cause cancer.

H360 May damage fertility or the unborn child.

H290 May be corrosive to metals.

H302 + H332 Harmful if swallowed or if inhaled.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

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

H373 May cause damage to organs (Kidney) through prolonged or repeated exposure.

### *Precautionary Statements*

P201 Obtain special instructions before use.

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

P234 Keep only in original container.

P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

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

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.

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

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

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position 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.

P310 Immediately call a POISON CENTER or doctor/ physician.

P322 Specific measures (see supplemental first aid instructions on this label).

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P361 Remove/Take off immediately all contaminated clothing.

P363 Wash contaminated clothing before reuse.

P390 Absorb spillage to prevent material damage.

P405 Store locked up.

P406 Store in corrosive resistant stainless steel container with a resistant inliner.

P501 Dispose of contents/ container to an approved waste disposal plant.

### **Other hazards**

None known.

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## SECTION 3. Composition/information on ingredients

## SAFETY DATA SHEET

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number	114540
Product name	COD Cell Test Method: photometric 10 - 150 mg/l Spectroquant® COD

---

Version1.2

Chemical nature                      Sulfuric acid solution.

### Hazardous ingredients

*Chemical Name (Concentration)*

CAS-No.

*sulphuric acid* ( $\geq 70\%$  -  $< 90\%$ )

7664-93-9

*mercury(II) sulphate* ( $\geq 1\%$  -  $< 5\%$ )

7783-35-9

*potassium dichromate* ( $\geq 0.1\%$  -  $< 1\%$ )

7778-50-9

Exact percentages are being withheld as a trade secret.

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## SECTION 4. First aid measures

### Description of first-aid measures

*General advice*

First aider needs to protect himself.

*Inhalation*

After inhalation: fresh air. Call in physician.

*Skin contact*

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician immediately.

*Eye contact*

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist.

*Ingestion*

After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation!). Call a physician immediately. Do not attempt to neutralize.

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

Irritation and corrosion, Cough, Shortness of breath

Mercury compounds have a cytotoxic and protoplasmatoxic effect. Intoxication symptoms: acute: contact with eye causes severe lesions. Swallowing and inhalation of dusts damages mucous membranes of gastrointestinal and respiratory tract (metallic taste, nausea, vomiting, abdominal pain, bloody diarrhea, intestinal burns, glottal oedema, aspiration pneumonia); drop in blood pressure, cardiac dysrhythmia, circulatory collapse, and renal failure; chronic: inflammation of the mouth with loss of teeth and mercurial line. The principal signs manifest themselves in the CNS (impaired speech, vision, hearing, and sensitivity, loss of memory, irritability, hallucinations, delirium inter alia).

Risk of blindness!

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

No information available.

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## SECTION 5. Fire-fighting measures

### Extinguishing media

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## SAFETY DATA SHEET

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number	114540	Version1.2
Product name	COD Cell Test Method: photometric 10 - 150 mg/l Spectroquant® COD	

---

### *Suitable extinguishing media*

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### *Unsuitable extinguishing media*

For this substance/mixture no limitations of extinguishing agents are given.

### **Special hazards arising from the substance or mixture**

Not combustible.

Ambient fire may liberate hazardous vapors.

Fire may cause evolution of:

Sulfur oxides, mercury vapors

### **Advice for firefighters**

#### *Special protective equipment for fire-fighters*

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

#### *Further information*

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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## **SECTION 6. Accidental release measures**

### **Personal precautions, protective equipment and emergency procedures**

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

### **Environmental precautions**

Do not let product enter drains.

### **Methods and materials for containment and cleaning up**

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

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## **SECTION 7. Handling and storage**

### **Precautions for safe handling**

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

Observe label precautions.

### **Conditions for safe storage, including any incompatibilities**

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

## SAFETY DATA SHEET

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 114540  
 Product name COD Cell Test Method: photometric 10 - 150 mg/l Spectroquant®  
 COD

Version 1.2

Store at +15°C to +25°C (+59°F to +77°F).

The data applies to the entire pack.

## SECTION 8. Exposure controls/personal protection

## Exposure limit(s)

*Ingredients*

Basis	Value	Threshold limits	Remarks
<i>sulphuric acid (7664-93-9)</i>			
ACGIH	Time Weighted Average (TWA):	0.2 mg/m <sup>3</sup>	Form of exposure: Thoracic fraction.
NIOSH/GUIDE	Recommended exposure limit (REL):	1 mg/m <sup>3</sup>	
OSHA_TRANS	PEL:	1 mg/m <sup>3</sup>	
Z1A	Time Weighted Average (TWA):	1 mg/m <sup>3</sup>	
<i>mercury(II) sulphate (7783-35-9)</i>			
ACGIH	Time Weighted Average (TWA): Skin designation:	0.025 mg/m <sup>3</sup>	Expressed as: as Hg  Can be absorbed through the skin. Expressed as: as Hg
NIOSH/GUIDE	Ceiling Limit Value and Time Period (if specified): Skin designation:	0.1 ppm	Expressed as: as Hg  Can be absorbed through the skin. Expressed as: as Hg
Z1A	Ceiling Limit Value:  Skin designation (Final Rule Limit applies):	0.1 mg/m <sup>3</sup>	Expressed as: as Hg  Can be absorbed through the skin. Expressed as: as Hg
ACGIH	Time Weighted Average (TWA): Skin designation:	0.025 mg/m <sup>3</sup>	Expressed as: as Hg  Can be absorbed through the skin. Expressed as: as Hg

*potassium dichromate (7778-50-9)*

## SAFETY DATA SHEET

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number	114540	Version1.2
Product name	COD Cell Test Method: photometric 10 - 150 mg/l Spectroquant® COD	

ACGIH	Time Weighted Average (TWA):	0.05 mg/m³	Expressed as: as Cr
NIOSH/GUIDE	Recommended exposure limit (REL):	0.001 mg/m³	Expressed as: as Cr(VI)
	Recommended exposure limit (REL):	0.5 mg/m³	Expressed as: as Cr
OSHA_TRANS	PEL:	1 mg/m³	Expressed as: as Cr
Z1A	Time Weighted Average (TWA):	1 mg/m³	
	Ceiling Limit Value:	0.1 mg/m³	Expressed as: as CrO3
OSHA/Z2	Ceiling Limit Value:	0.1 mg/m³	

### Engineering measures

#### Individual protection measures

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled. The chemical resistance of the protective equipment should be inquired at the respective supplier.

#### Hygiene measures

Change contaminated clothing and immerse in water. Preventive skin protection Wash hands and face after working with substance.

#### Eye/face protection

Tightly fitting safety goggles

#### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

#### Other protective equipment:

Acid-resistant protective clothing.

#### Respiratory protection

required when vapors/aerosols are generated.

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

## SECTION 9. Physical and chemical properties

Physical state	liquid
Color	dark orange
Odor	odorless
Odor Threshold	Not applicable
pH	< 0.5 at 68 °F (20 °C)

## SAFETY DATA SHEET

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number	114540	Version1.2
Product name	COD Cell Test Method: photometric 10 - 150 mg/l Spectroquant® COD	

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Melting point	No information available.
Boiling point	No information available.
Flash point	No information available.
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Vapor pressure	No information available.
Relative vapor density	No information available.
Density	ca. 1.8 g/cm <sup>3</sup> at 68 °F (20 °C)
Relative density	No information available.
Water solubility	at 68 °F (20 °C) soluble, (development of heat)
Partition coefficient: n-octanol/water	No information available.
Autoignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity, dynamic	No information available.
Explosive properties	Not classified as explosive.
Oxidizing properties	Oxidizing potential
Corrosion	May be corrosive to metals.

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### SECTION 10. Stability and reactivity

#### Reactivity

See below

#### Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

#### Possibility of hazardous reactions

## SAFETY DATA SHEET

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number	114540
Product name	COD Cell Test Method: photometric 10 - 150 mg/l Spectroquant® COD

---

Version1.2

A risk of explosion and/or of toxic gas formation exists with the following substances:

Violent reactions possible with:

Water, Alkali metals, alkali compounds, Ammonia, Aldehydes, acetonitrile, Alkaline earth metals, alkalines, Acids, alkaline earth compounds, Metals, metal alloys, Oxides of phosphorus, phosphorus, hydrides, halogen-halogen compounds, oxyhalogenic compounds, permanganates, nitrates, carbides, combustible substances, organic solvent, acetylidene, Nitriles, organic nitro compounds, anilines, Peroxides, picrates, nitrides, lithium silicide, iron(III) compounds, bromates, chlorates, Amines, perchlorates, hydrogen peroxide

### Conditions to avoid

no information available

### Incompatible materials

animal/vegetable tissues, Metals

Gives off hydrogen by reaction with metals.

### Hazardous decomposition products

in the event of fire: See section 5.

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## SECTION 11. Toxicological information

### Information on toxicological effects

*Likely route of exposure*

Eye contact, Skin contact

*Target Organs*

Eyes

Skin

Respiratory system

teeth

Mucous membranes

Lungs

upper respiratory system

Cornea

*Acute oral toxicity*

Acute toxicity estimate: 691.12 mg/kg

Calculation method

absorption



## SAFETY DATA SHEET

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 114540  
Product name COD Cell Test Method: photometric 10 - 150 mg/l Spectroquant®  
COD

---

Version 1.2

### *Acute inhalation toxicity*

Acute toxicity estimate: > 5 mg/l; 4 h

Calculation method

### *Acute dermal toxicity*

Acute toxicity estimate : 691.05 mg/kg

Calculation method

absorption

### *Skin irritation*

Mixture causes severe burns.

### *Eye irritation*

Mixture causes serious eye damage.

Risk of blindness!

### *Specific target organ systemic toxicity - single exposure*

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

### *Specific target organ systemic toxicity - repeated exposure*

Target Organs: Kidney  
Mixture may cause damage to organs through prolonged or repeated exposure.

### *Aspiration hazard*

Regarding the available data the classification criteria are not fulfilled.

## **Carcinogenicity**

IARC	Group 1: Carcinogenic to humans	
	sulphuric acid	7664-93-9
	potassium dichromate	7778-50-9
OSHA	potassium dichromate	7778-50-9
	Known carcinogen.	
NTP	sulphuric acid	7664-93-9
	potassium dichromate	7778-50-9
	A1: Confirmed human carcinogen	
ACGIH	potassium dichromate	7778-50-9
	A2: Suspected human carcinogen	
	sulphuric acid	7664-93-9

## **Further information**

After inhalation of aerosols: damage to the affected mucous membranes. After skin contact: severe burns with formation of scabs. After eye contact: burns, corneal lesions. After swallowing: severe pain (risk of perforation!), nausea, vomiting and diarrhea. After a latency period of several weeks possibly pyloric stenosis.

## SAFETY DATA SHEET

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number	114540
Product name	COD Cell Test Method: photometric 10 - 150 mg/l Spectroquant® COD

---

Version1.2

Mercury compounds have a cytotoxic and protoplasmatoxic effect. Intoxication symptoms: acute: contact with eye causes severe lesions. Swallowing and inhalation of dusts damages mucous membranes of gastrointestinal and respiratory tract (metallic taste, nausea, vomiting, abdominal pain, bloody diarrhea, intestinal burns, glottal oedema, aspiration pneumonia); drop in blood pressure, cardiac dysrhythmia, circulatory collapse, and renal failure; chronic: inflammation of the mouth with loss of teeth and mercurial line. The principal signs manifest themselves in the CNS (impaired speech, vision, hearing, and sensitivity, loss of memory, irritability, hallucinations, delirium inter alia).

Danger of cumulative effects.

Other dangerous properties can not be excluded.

This substance should be handled with particular care.

### Ingredients

#### sulphuric acid

*Germ cell mutagenicity*

*Genotoxicity in vitro*

Ames test

Salmonella typhimurium

Result: negative

(HSDB)

#### mercury(II) sulphate

*Acute inhalation toxicity*

Acute toxicity estimate: 0.051 mg/l; dust/mist

Expert judgment

#### potassium dichromate

*Acute oral toxicity*

LD50 Rat: 90.5 mg/kg

OECD Test Guideline 401

*Acute inhalation toxicity*

LC50 Rat: 0.083 mg/l; 4 h ; aerosol

OECD Test Guideline 403

*Acute dermal toxicity*

LD50 Rat: 1,170 mg/kg (IUCLID)

*Skin irritation*

Rabbit

Result: Causes burns.

OECD Test Guideline 404

*Sensitization*

Sensitization test (Magnusson and Kligman):

Result: positive

(IUCLID)

Patch test: human

Result: positive

(IUCLID)

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## SECTION 12. Ecological information

### Ecotoxicity

No information available.

## SAFETY DATA SHEET

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number	114540
Product name	COD Cell Test Method: photometric 10 - 150 mg/l Spectroquant® COD

---

Version 1.2

### Persistence and degradability

No information available.

### Bioaccumulative potential

No information available.

### Mobility in soil

No information available.

### *Additional ecological information*

Discharge into the environment must be avoided.

### Ingredients

sulphuric acid

*Toxicity to daphnia and other aquatic invertebrates*

static test EC50 Daphnia magna (Water flea): > 100 mg/l; 48 h

OECD Test Guideline 202

Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

mercury(II) sulphate

*Toxicity to fish*

LC50 Pimephales promelas (fathead minnow): 0.19 mg/l; 96 h (Hommel)

*Toxicity to algae*

IC50 M.aeruginosa: 0.005 mg/l (maximum permissible toxic concentration) (Hommel)

*M-Factor*

1

potassium dichromate

*Toxicity to fish*

LC50 Pimephales promelas (fathead minnow): 26.13 mg/l; 96 h (IUCLID)

LC50 Lepomis macrochirus (Bluegill sunfish): 0.131 mg/l; 96 h (External MSDS)

*Toxicity to daphnia and other aquatic invertebrates*

Immobilization EC50 Daphnia magna (Water flea): 0.62 mg/l; 48 h

OECD Test Guideline 202

EC50 Daphnia magna (Water flea): 0.035 mg/l; 48 h (External MSDS)

*Toxicity to algae*

IC50 Chlorella vulgaris (Fresh water algae): 0.16 - 0.59 mg/l; 96 h (IUCLID)

EC50 Pseudokirchneriella subcapitata (green algae): 0.31 mg/l; 72 h (External MSDS)

*Toxicity to bacteria*

microtox test EC50 Photobacterium phosphoreum: 58 mg/l; 30 min

*Toxicity to fish (Chronic toxicity)*

NOEC Pimephales promelas (fathead minnow): 6 mg/l; 7 d

(External MSDS)

## SAFETY DATA SHEET

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number	114540	Version1.2
Product name	COD Cell Test Method: photometric 10 - 150 mg/l Spectroquant® COD	

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### *Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)*

NOEC Daphnia: 0.016 - 0.064 mg/l; 7 d  
(External MSDS)

### *Biodegradability*

The methods for determining the biological degradability are not applicable to inorganic substances.

### *Bioaccumulation*

Bioconcentration factor (BCF): 17.4  
Oncorhynchus mykiss (rainbow trout) ((External MSDS))

### *M-Factor*

1

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## SECTION 13. Disposal considerations

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

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## SECTION 14. Transport information

### Land transport (DOT)

UN number	UN3316
Proper shipping name	CHEMICAL KIT
Class	9
Packing group	II
Environmentally hazardous	--

### Air transport (IATA)

UN number	UN 3316
Proper shipping name	CHEMICAL KIT
Class	9
Packing group	II
Environmentally hazardous	--
Special precautions for user	no

### Sea transport (IMDG)

UN number	UN 3316
Proper shipping name	CHEMICAL KIT
Class	9
Packing group	II
Environmentally hazardous	--

## SAFETY DATA SHEET

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number	114540	Version1.2
Product name	COD Cell Test Method: photometric 10 - 150 mg/l Spectroquant® COD	

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<b>Special precautions for user</b>	yes
<b>EmS</b>	F-A S-P

THIS TRANSPORT DATA APPLIES TO THE ENTIRE PACK!

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### SECTION 15. Regulatory information

#### United States of America

##### SARA 313

The following components are subject to reporting levels established by SARA Title III, Section 313:

##### *Ingredients*

sulphuric acid	7664-93-9
potassium dichromate	7778-50-9
mercury(II) sulphate	7783-35-9

##### SARA 302

The following components are subject to reporting levels established by SARA Title III, Section 302:

##### *Ingredients*

sulphuric acid	7664-93-9
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#### Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

##### *Ingredients*

sulphuric acid  
potassium dichromate  
mercury(II) sulphate

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

##### *Ingredients*

sulphuric acid  
potassium dichromate  
mercury(II) sulphate

#### DEA List I

Not listed

#### DEA List II

Listed

##### *Ingredients*

sulphuric acid	7664-93-9
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#### US State Regulations

##### Massachusetts Right To Know

##### *Ingredients*

sulphuric acid  
mercury(II) sulphate

##### Pennsylvania Right To Know

##### *Ingredients*

sulphuric acid

## SAFETY DATA SHEET

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number	114540
Product name	COD Cell Test Method: photometric 10 - 150 mg/l Spectroquant® COD

---

Version1.2

mercury(II) sulphate

### **New Jersey Right To Know**

#### *Ingredients*

sulphuric acid

mercury(II) sulphate

potassium dichromate

### **California Prop 65 Components**

WARNING: This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

#### *Ingredients*

potassium dichromate

mercury(II) sulphate

### **California Prop 65 Components**

WARNING: this product contains a chemical known in the State of California to cause cancer.

#### *Ingredients*

sulphuric acid

potassium dichromate

### **Notification status**

TSCA: All components of the product are listed in the TSCA-inventory.

DSL: All components of this product are on the Canadian DSL.

KOREA: Not in compliance with the inventory

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## **SECTION 16. Other information**

### **Training advice**

Provide adequate information, instruction and training for operators.

## SAFETY DATA SHEET

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number	114540	Version1.2
Product name	COD Cell Test Method: photometric 10 - 150 mg/l Spectroquant® COD	

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### Full text of H-Statements referred to under sections 2 and 3.

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H340	May cause genetic defects.
H350	May cause cancer.
H360	May damage fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.

### Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at [www.wikipedia.org](http://www.wikipedia.org).

Revision Date 01/26/2015

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The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to appropriate safety precautions. It does not represent a warranty of any product properties and we assume no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.

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