

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

Revision Date 06/12/2017

Version 1.3

#### SISECTION 1.Identification

#### **Product identifier**

Product number 109001

Product name Folin-Ciocalteu's phenol reagent

#### 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) MilliporeSigma is a business of Merck KGaA, Darmstadt, Germany.

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 Skin corrosion, Category 1A, H314 Serious eye damage, Category 1, H318

For the full text of the H-Statements mentioned in this Section, see Section 16.

## **GHS-Labeling**

Hazard pictograms



Signal Word
Danger

Hazard Statements

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

Precautionary Statements

P234 Keep only in original container.

P264 Wash skin thoroughly after handling.

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

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

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

P304 + P340 IF INHALED: Remove person to fresh air and keep 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/doctor.

P321 Specific treatment (see supplemental first aid instructions on this label).

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 inner liner.

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

#### Other hazards

None known.

#### SECTION 3. Composition/information on ingredients

Chemical nature

Aqueous solution of inorganic compounds.

## Hazardous ingredients

Chemical name (Concentration)

CAS-No.

lithium sulphate (>= 10 % - < 30 % )

10377-48-7

Exact percentages are being withheld as a trade secret.

Sodium tungstate (>= 5 % - < 10 %)

13472-45-2

Exact percentages are being withheld as a trade secret.

phosphoric acid (>= 5 % - < 10 %)

7664-38-2

Exact percentages are being withheld as a trade secret.

hydrochloric acid (>= 1 % - < 5 %)

Exact percentages are being withheld as a trade secret.

Disodium molybdate (>= 1 % - < 5 %)

7631-95-0

Exact percentages are being withheld as a trade secret.

#### **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.

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#### 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. Remove contact lenses.

#### 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.

Never give anything by mouth to an unconscious person.

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

Diarrhea, Vomiting

The following applies to lithium compounds in general: when handled or used inappropriately, the absorption of large quantities is followed by CNS disorders, agitation, spasms, ataxia (impaired locomotor coordination) due to disturbed electrolyte balance.

Irritation and corrosion, Cough, Shortness of breath

Risk of blindness!

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

No information available.

## SECTION 5. Fire-fighting measures

#### Extinguishing media

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

#### 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.

#### SECTION 6. Accidental release measures

## Personal precautions, protective equipment and emergency procedures

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

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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 with liquid-absorbent and neutralizing material (e.g. Chemizorb® H<sup>+</sup>, Art. No. 101595).

Dispose of properly. Clean up affected area.

## SECTION 7. Handling and storage

#### Precautions for safe handling

Observe label precautions.

## Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

No metal containers.

Tightly closed.

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

#### SECTION 8. Exposure controls/personal protection

## Exposure limit(s)

Ingredients			
Basis	Value	Threshold limits	Remarks
Sodium tungs	state 13472-45-2		
ACGIH	Time Weighted Average (TWA):	1 mg/m³	Expressed as: as W
	Short Term Exposure Limit (STEL):	3 mg/m³	Expressed as: as W
NIOSH/GUIDE	Short Term Exposure Limit (STEL):	3 mg/m³	Expressed as: as W
	Recommended exposure limit (REL):	1 mg/m³	Expressed as: as W
Z1A	Time Weighted Average (TWA):	1 mg/m³	Expressed as: as W
	Short Term Exposure Limit (STEL):	3 mg/m³	Expressed as: as W

phosphoric acid 7664-38-2

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**ACGIH** Time Weighted Average

(TWA):

Short Term Exposure

3 mg/m<sup>3</sup>

1 mg/m<sup>3</sup>

3 mg/m<sup>3</sup>

3 mg/m<sup>3</sup>

Limit (STEL): NIOSH/GUIDE

Recommended exposure limit (REL):

1 mg/m<sup>3</sup>

Short Term Exposure

Limit (STEL):

OSHA TRANS PEL: 1 mg/m<sup>3</sup>

Z1A Short Term Exposure

Limit (STEL):

Time Weighted Average

1 mg/m<sup>3</sup>

(TWA):

hydrochloric acid

ACGIH Ceiling Limit Value: 2 ppm

NIOSH/GUIDE Ceiling Limit Value and

Time Period (if

5 ppm 7 mg/m<sup>3</sup>

specified): OSHA TRANS Ceiling Limit Value:

5 ppm 7 mg/m<sup>3</sup>

Z1A

5 ppm 7 mg/m<sup>3</sup>

Disodium molybdate 7631-95-0

**ACGIH** Time Weighted Average 0.5 mg/m<sup>3</sup>

Ceiling Limit Value:

Form of exposure: Respirable fraction.

(TWA): Expressed as: as Mo

OSHA\_TRANS PEL: 5 mg/m<sup>3</sup> Expressed as: as Mo

Time Weighted Average Z<sub>1</sub>A 5 mg/m<sup>3</sup> Expressed as: as Mo

(TWA):

#### **Engineering measures**

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

## 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

Immediately change contaminated clothing. Apply skin- protective barrier cream. Wash hands and face after working with substance.

#### Eye/face protection

Tightly fitting safety goggles

## Hand protection

full contact:

Nitrile rubber Glove material: Glove thickness: 0.11 mm Break through time: > 480 min

splash contact:

Glove material: Nitrile rubber Glove thickness: 0.11 mm

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Break through time: > 480 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 741 Dermatril® L (full contact), KCL 741 Dermatril® L (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

This recommendation applies only to the product stated in the safety data sheet and supplied by us as well as to the purpose specified by us. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Other protective equipment:

Acid-resistant protective clothing.

Respiratory protection

required when vapors/aerosols are generated.

Recommended Filter type: filter ABEK

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are performed according to the instructions of the producer. These measures have to be properly documented.

## SECTION 9. Physical and chemical properties

Physical state liquid

Color yellow

Odor slight

Odor Threshold No information available.

pH < 0.5

at 68 °F (20 °C)

Melting point No information available.

Boiling point No information available.

Flash point Not applicable

Evaporation rate No information available.

Flammability (solid, gas) No information available.

Lower explosion limit Not applicable

Upper explosion limit Not applicable

Vapor pressure No information available.

Relative vapor density No information available.

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Product name Folin-Ciocalteu's phenol reagent

Density ca.1.24 g/cm3

at 68 °F (20 °C)

Relative density No information available.

Water solubility at 68 °F (20 °C)

soluble

Partition coefficient: n-

octanol/water Not applicable

Autoignition temperature No information available.

Decomposition temperature No information available.

Viscosity, dynamic No information available.

Explosive properties Not classified as explosive.

Oxidizing properties none

Corrosion May be corrosive to metals.

## 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

Violent reactions possible with:

The generally known reaction partners of water.

Generates dangerous gases or fumes in contact with:

Metals

Gives off hydrogen by reaction with metals.

## Conditions to avoid

no information available

## Incompatible materials

Metals

## Hazardous decomposition products

in the event of fire: See section 5.

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Product name Folin-Ciocalteu's phenol reagent

## **SECTION 11. Toxicological information**

## Information on toxicological effects

Likely route of exposure Eye contact, Skin contact

Target Organs

Eyes Skin

Respiratory system

Cornea Kidneys Blood

Acute oral toxicity

Acute toxicity estimate: > 2,000 mg/kg

Calculation method

Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.

Acute inhalation toxicity

Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of respiratory tract

Skin irritation

Mixture causes severe burns.

Eve 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

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

Aspiration hazard

Regarding the available data the classification criteria are not fulfilled.

## Carcinogenicity

IARC No ingredient of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

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

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Product name Folin-Ciocalteu's phenol reagent

ACGIH Confirmed animal carcinogen with unknown relevance to

humans.

Disodium molybdate 7631-95-0

#### **Further information**

After absorption of large quantities:

disturbed electrolyte balance.

The following applies to lithium compounds in general: when handled or used inappropriately, the absorption of large quantities is followed by CNS disorders, agitation, spasms, ataxia (impaired locomotor coordination) due to disturbed electrolyte balance.

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

#### Ingredients

#### lithium sulphate

Acute oral toxicity

LD50 Rat: 613 mg/kg (ECHA)

Acute inhalation toxicity

LC50 Rat: > 2 mg/l; 4 h; dust/mist The value is given in analogy to the following substances: Lithium carbonate

OECD Test Guideline 403

Acute dermal toxicity LD50 Rabbit: > 3,000 mg/kg

OECD Test Guideline 402 The value is given in analogy to the following substances: Lithium carbonate

Skin irritation

Rabbit

Result: No skin irritation OECD Test Guideline 404

The value is given in analogy to the following substances: Lithium carbonate

Eye irritation

Rabbit

Result: Eye irritation OECD Test Guideline 405

The value is given in analogy to the following substances: Lithium carbonate

Sensitization

Sensitization test: Guinea pig

Result: negative

Method: OECD Test Guideline 406

The value is given in analogy to the following substances: Lithium carbonate

Germ cell mutagenicity

Genotoxicity in vitro

Ames test

Escherichia coli/Salmonella typhimurium

Result: negative

Method: OECD Test Guideline 471

The value is given in analogy to the following substances: Lithium hydroxide

Mutagenicity (mammal cell test): chromosome aberration.

Human lymphocytes
Result: negative

Method: OECD Test Guideline 473

The value is given in analogy to the following substances: Lithium hydroxide

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Product name Folin-Ciocalteu's phenol reagent

In vitro mammalian cell gene mutation test

Result: negative

Method: OECD Test Guideline 476

The value is given in analogy to the following substances: Lithium hydroxide

#### Sodium tungstate

Acute oral toxicity

Acute toxicity estimate: 500.1 mg/kg

Expert judgment

LD50 Rat: 1,373 mg/kg OECD Test Guideline 401

Acute inhalation toxicity

LC50 Rat: > 5.01 mg/l; 4 h; dust/mist

OECD Test Guideline 403

Acute dermal toxicity LD50 Rat: > 2,000 mg/kg OECD Test Guideline 402

Skin irritation

Rabbit

Result: No skin irritation OECD Test Guideline 404

Eye irritation

Rabbit

Result: slight irritation OECD Test Guideline 405

Sensitization

Maximization Test Guinea pig

Result: negative

Method: OECD Test Guideline 406

Germ cell mutagenicity Genotoxicity in vivo In vivo micronucleus test

Mouse

Result: negative

Method: OECD Test Guideline 474

Genotoxicity in vitro

Mutagenicity (mammal cell test): chromosome aberration.

Chinese hamster ovary cells

Result: negative

Method: OECD Test Guideline 473

In vitro mammalian cell gene mutation test

MOUSE LYMPHOMA TEST

Result: negative

Method: OECD Test Guideline 476

Ames test

Escherichia coli/Salmonella typhimurium

Result: negative

Method: OECD Test Guideline 473

phosphoric acid

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

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Product name Folin-Ciocalteu's phenol reagent

Acute oral toxicity LD50 Rat: ca. 2,600 mg/kg OECD Test Guideline 423

Acute dermal toxicity

LD50 Rabbit: 2,740 mg/kg (IUCLID)

Skin irritation

Rabbit

Result: Causes burns.

**US-EPA** 

Eye irritation

Rabbit

Result: Causes burns.

(IUCLID)

Sensitization
Patch test: human
Result: negative
(IUCLID)

Germ cell mutagenicity Genotoxicity in vitro

Ames test

Escherichia coli/Salmonella typhimurium

Result: negative

Method: OECD Test Guideline 471

In vitro mammalian cell gene mutation test

Result: negative

Method: OECD Test Guideline 473

In vitro mammalian cell gene mutation test

MOUSE LYMPHOMA TEST

Result: negative

Method: OECD Test Guideline 476

#### hydrochloric acid

Skin irritation

Rabbit

Result: Corrosive

OECD Test Guideline 404

Eye irritation

Rabbit

Result: Irreversible effects on the eye

OECD Test Guideline 405

Sensitization

Maximization Test Guinea pig

Result: Does not cause skin sensitization. Method: OECD Test Guideline 406

Disodium molybdate

No information available.

## SECTION 12. Ecological information

## **Ecotoxicity**

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

Product number 109001 Version 1.3

Product name Folin-Ciocalteu's phenol reagent

No information available.

## Persistence and degradability

No information available.

#### Bioaccumulative potential

Partition coefficient: n-octanol/water

Not applicable

## Mobility in soil

No information available.

#### Additional ecological information

Biological effects:

Harmful effect due to pH shift. Does not cause biological oxygen deficit.

Discharge into the environment must be avoided.

#### Ingredients

#### lithium sulphate

Toxicity to fish

static test LC50 Oncorhynchus mykiss (rainbow trout): 45 mg/l; 96 h

Analytical monitoring: yes

OECD Test Guideline 203 The value is given in analogy to the following substances: Lithium carbonate

Toxicity to daphnia and other aquatic invertebrates

static test EC50 Daphnia magna (Water flea): 49 mg/l; 48 h

Analytical monitoring: yes

OECD Test Guideline 202 The value is given in analogy to the following substances: Lithium carbonate

Toxicity to algae

static test ErC50 Desmodesmus subspicatus (green algae): > 596 mg/l; 72 h

Analytical monitoring: yes

OECD Test Guideline 201 The value is given in analogy to the following substances: Lithium carbonate

static test NOEC Desmodesmus subspicatus (green algae): 75 mg/l; 72 h

Analytical monitoring: yes

OECD Test Guideline 201 The value is given in analogy to the following substances: Lithium carbonate

Toxicity to fish (Chronic toxicity)

semi-static test NOEC Danio rerio (zebra fish): 22.73 mg/l; 34 d

Analytical monitoring: yes

OECD Test Guideline 210 The value is given in analogy to the following substances: Lithium Hydroxide, Monohydrate

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) semi-static test NOEC Daphnia magna (Water flea): 13.5 mg/l; 21 d

Analytical monitoring: yes

OECD Test Guideline 211 The value is given in analogy to the following substances: lithium

Biodegradability

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

Sodium tungstate

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

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Toxicity to algae

static test ErC50 Pseudokirchneriella subcapitata (green algae): > 17.7 mg/l; 72 h

OECD Test Guideline 201

Toxicity to fish (Chronic toxicity)

flow-through test NOEC Danio rerio (zebra fish): > 9.8 mg/l; 38 d

OECD Test Guideline 210

Biodegradability

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

#### phosphoric acid

Toxicity to fish

LC50 Gambusia affinis (Mosquito fish): 138 mg/l; 96 h (External MSDS)

Toxicity to daphnia and other aquatic invertebrates

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

Analytical monitoring: yes OECD Test Guideline 202

Toxicity to algae

static test ErC50 Desmodesmus subspicatus (green algae): > 100 mg/l; 72 h

Analytical monitoring: yes OECD Test Guideline 201

Toxicity to bacteria

EC50 activated sludge: 270 mg/l(IUCLID)

Biodegradability

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

Partition coefficient: n-octanol/water

log Pow: -0.77 (calculated)

(Lit.) Bioaccumulation is not expected.

PBT/vPvB: Not applicable for inorganic substances

#### hydrochloric acid

Toxicity to fish

Lepomis macrochirus (Bluegill sunfish): 20.5 mg/l; 96 h

OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates

EC50: 1.3 mg/l; 48 h OECD Test Guideline 202

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

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

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Product name Folin-Ciocalteu's phenol reagent

*Disodium molybdate*No information available.

#### **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.

## **SECTION 14. Transport information**

Land transport (DOT)

UN number UN 3264

Proper shipping name CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONT.

HYDROCHLORIC ACID, PHOSPHORIC ACID)

Class 8
Packing group III
Environmentally hazardous --

Air transport (IATA)

UN number UN 3264

Proper shipping name CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONT.

HYDROCHLORIC ACID, PHOSPHORIC ACID)

Class 8
Packing group III
Environmentally hazardous -Special precautions for user no

Sea transport (IMDG)

UN number UN 3264

Proper shipping name CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONT.

HYDROCHLORIC ACID, PHOSPHORIC ACID)

Class 8
Packing group III
Environmentally hazardous -Special precautions for user
EmS F-A S-B

## **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

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

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hydrochloric acid 3.55 %

#### **SARA 302**

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

Ingredients

hydrochloric acid

#### **Clean Water Act**

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

Ingredients

hydrochloric acid

phosphoric acid

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

Ingredients

hydrochloric acid

phosphoric acid

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

#### **DEA List I**

Not listed

#### **DEA List II**

Listed

Ingredients

hydrochloric acid

## **US State Regulations**

## Massachusetts Right To Know

Ingredients

phosphoric acid

hydrochloric acid

**Brom** 

## Pennsylvania Right To Know

Ingredients

phosphoric acid

hydrochloric acid

## New Jersey Right To Know

Ingredients

phosphoric acid

hydrochloric acid

## California Prop 65 Components

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

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

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Product name Folin-Ciocalteu's phenol reagent

#### **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

#### **SECTION 16. Other information**

#### Training advice

Provide adequate information, instruction and training for operators.

#### Labeling

Hazard pictograms



# Signal Word Danger

#### Hazard Statements

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

## Precautionary Statements

Prevention

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

Response

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

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 + P310 IF exposed or concerned: immediately call a POISON CENTER or doctor/ physician.

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

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

## 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.

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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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