

Revised on: 19.06.2017

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name: Folin-Ciocalteu's phenol reagent for biochemistry

Article number: 1443

REACH Registration Number: A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) N° 1907/2006, the annual tonnage does not require a registration, the registration is envisaged for a later registration deadline or it is a mixture.

1.2. Relevant identified uses of the substance or mixture:

- laboratory utilization
- analysis
- research
- fine chemistry

1.3. Details of the supplier of the safety data sheet

Manufacturer/Supplier:

neoFroxx GmbH
Marie-Curie-Str. 3
D-64683 Einhausen
info@neofroxx.com

Further information obtainable from:

Dep. Quality Control

1.4. Emergency telephone number

+49 (6251) 989 24 - 0 (during normal business hours)

2. Hazards identification

2.1. Classification of the substance or the mixture.

No hazardous mixture as specified in Regulation (CE) 1272/2008.

For the full text of the R-phrases mentioned in this section, see section 16.

2.2. Other hazards:

No further relevant information available.

3. Composition / information on ingredients

Name: Folin-Ciocalteu's phenol reagent

COMPOSITION:

0001: Hydrochloric Acid 37%

Formula: HCl

M.= 36,46

CAS [7647-01-0]

EC number (EINECS): 231-595-7

EC index number: 017-002-01-X

REACH Registration Number: 01-2119484862-27-XXXX

Content: >= 1 % <= 5 %

Classification Regulation (CE) n° 1272/2008:

Met. Corr. 1

Skin Irrit. 2

Eye Irrit. 2

STOT SE 3

neoFroxx GmbH

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Hazard Pictograms:



Signal word:

Warning

Hazard statements:

H290 May be corrosive to metals.

H335 May cause respiratory irritation.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statements:

P234 Keep only in original container.

P390 Absorb spillage to prevent material damage.

P406 Store in corrosive resistant/ container with a resistant inner liner.

P264 Wash thoroughly after handling.

P280 Wear protective gloves, protective clothing, eye protection or face protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P321 Specific treatment (see on this label).

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

P261 Avoid breathing dust, fume, gas, mist, vapours or spray.

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

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

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P405 Store locked up.

P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

Classification (67/548/CEE or 1999/45/CE):

C Corrosive

Xi Irritant

R36/37/38 Irritating to eyes, respiratory system and skin.

0002: ortho-Phosphoric Acid 85%

Formula: H₃PO₄

M.= 98,00

CAS [7664-38-2]

EC number (EINECS): 231-633-2

EC index number: 015-011-00-6

REACH Registration Number: 01-2119485924-24-XXXX

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Content: $\geq 5\%$ $\leq 10\%$

Classification Regulation (CE) n° 1272/2008:

Skin Corr. 1B

Hazard Pictograms:



Signal word:

Danger

Hazard statements:

H314 Causes severe skin burns and eye damage.

Precautionary statements:

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

P264 Wash thoroughly after handling.

P280 Wear protective gloves, protective clothing, eye protection or face protection.

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.

P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

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.

P321 Specific treatment (see on this label).

P338 Remove contact lenses, if present and easy to do. Continue rinsing.

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

Classification (67/548/CEE or 1999/45/CE):

C Corrosive

R34 Causes burns.

0003: Sodium Tungstate 2-hydrate

Formula: $\text{Na}_2\text{WO}_4 \cdot 2\text{H}_2\text{O}$

M.= 329,86

CAS [10213-10-2]

EC number (EINECS): 236-743-4

Content: $\geq 1\%$ $\leq 10\%$

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Classification Regulation (CE) n° 1272/2008:

Acute Tox. 4

Hazard Pictograms:



Signal word:

Warning

Hazard statements:

H302 Harmful if swallowed.

Precautionary statements:

P264 Wash thoroughly after handling.

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

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

P330 Rinse mouth.

P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

Classification (67/548/CEE or 1999/45/CE):

Xn Harmful

R22 Harmful if swallowed.

4. First aid measures

4.1. General indications:

Never provide drink or induce vomiting in the event of loss of consciousness.

4.2. Inhaling:

Take the person out into the fresh air.

4.3. Contact with the skin:

Wash with plenty of water. Remove contaminated clothing.

4.4. Eyes:

Wash with plenty of water, keeping eyelids open. In the event of irritation, seek medical assistance.

4.5. Swallowing:

Drink large amounts of water. Induce vomiting. Call for medical help.

5. Firefighting measures

5.1. Suitable extinguishing media:

As appropriate to the environment.

5.2. Unsuitable extinguishing media:

No specific data.

5.3. Special hazards arising from the substance or mixture:

Incombustible. Precipitate fumes formed with water.

5.4. Advice for firefighters:

Suitable clothing and footwear.

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6. Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures:
No special indications.
- 6.2. Environmental precautions:
Do not allow it to enter the drainage system. Avoid pollution of the soil, water supplies and drains.
- 6.3. Methods and material for containment and cleaning up:
Collect up with absorbent materials (General Absorbent, Kieselguhr, etc.) or, if none available, dry sand or earth, and deposit in waste containers for subsequent elimination in accordance with current legislation. Clean any remains with plenty of water. Neutralize with diluted sodium hydroxide.

7. Handling and storage

- 7.1. Precautions for safe handling:
No special indications.
- 7.2. Conditions for safe storage, including any incompatibilities:
Well sealed containers.
Recommended storage temperature: Room temperature. Do not store in metal containers.

8. Exposure controls / personal protection

- 8.1. Exposure controls:
No special indications.
- 8.2. Control parameters:
-
- 8.3. Respiratory protection:
In the event of fumes forming/aerosols, use suitable respiratory protection.
- 8.4. Hand protection:
Use suitable gloves
- 8.5. Eye/face protection:
Use suitable goggles.
- 8.6. Individual hygiene measures:
Remove contaminated clothing. Use suitable work clothing. Wash hands and face before breaks and when the job is done.
- 8.7. Environmental exposure controls:
Fulfill the commitments under local environmental protection legislation.

9. Physical and chemical properties

Appearance: liquid
Colour: Yellow
Granulometry: N/A
Odour: Slightly piquant.
pH: <0,5
Melting point/freezing point: N/A
Initial boiling point and boiling range: N/A
Flash point: N/A
Flammability (solid, gas): N/A

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Upper/lower flammability or explosive limits: N/A

Vapour pressure: N/A

Vapour density: N/A

Relative density: (20/4) 1,234 g/ml

Solubility: Miscible with water

Partition coefficient: n-octanol/water: N/A

Auto-ignition temperature: N/A

Decomposition temperature: N/A

Kinematic viscosity: N/A

Dynamic viscosity: N/A

10. Stability and reactivity

10.1. Conditions to avoid:

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

10.2. Incompatible materials:

Metals. Formation of hydrogen (risk of explosion)

10.3. Hazardous decomposition products:

No specific data.

10.4. Chemical stability:

No specific data.

11. Toxicological information

11.1. Acute toxicity:

Data not available.

11.2. Dangerous effects for health:

Taking the preparation' components into account, the likely dangerous characteristics are as follows:

Upon contact with the skin: irritations, burns

Through contact with the eyes: irritations, burns

Due to absorption: May cause: irritations effects on the central nervous system, burns, anxiety, spasms, ataxia (motor coordination disorders)

Carcinogenic in animal testing. Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products.

12. Ecological information

12.1. Toxicity:

EC50 test (mg/l):

Fish (H3PO4) 100 mg/l

Classification: Extr. toxic

Fish (HCl) 25 mg/l

Classification: Extr. toxic

Receptor medium:

Risk for the water environment: High

Risk for the land environment: Medium

Observations:

The ecotoxicity is due to the pH deviation.

Acute ecotoxicity in the dumping area.

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12.2. Persistence and Degradability:

Test:

Biotic degradation classification:

BOD5/COD

Biodegradability

Abiotic degradation depending on pH:

Observations:

Data not available.

12.3. Bioaccumulative potential:

Test:

Bioaccumulation:

Risk

Observations:

Data not available.

12.4. Mobility in soil:

Data not available.

12.5. Assessment PBT and MPMB :

Data not available.

12.6. Other adverse effects:

Due to the presence of phosphorus, eutrophy can be encouraged in waste disposal areas.

Do not allow it to enter soils or water channels.

DATA BASED on the components of the preparation.

13. Disposal considerations

13.1. Waste treatment methods:

In the European Union, there are no homogeneous standards established for elimination of chemical waste, which is waste of a special nature, and treatment and elimination of same is subject to the domestic legislation in each country.

In view of this, in each case, you should contact the competent authority or those companies legally authorized for elimination of waste.

2001/573/EC: Council Decision of 23 July 2001 amending Commission Decision 2000/532/EC as regards the list of wastes. Council Directive 91/156/EEC of 18 March 1991 amending Directive 75/442/EEC on waste.

13.2. Contaminated containers:

Contaminated containers and packaging of dangerous substances or preparations must be treated in the same manner as the actual products contained in them.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

14. Transport information

14.1. Overland (ADR):

Technical name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

UN 3264

Class: 8

Packaging group: III (E)

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14.2. By sea (IMDG):

Technical name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

UN 3264

Class: 8

Packaging group: III

14.3. By air (ICAI-IATA):

Technical name: Corrosive liquid, acidic, inorganic n.o.s.

UN 3264

Class: 8

Packaging group: III

Packaging instructions: CAO 856 PAX 852

15. Regulatory information

The substance is subject to Regulation (EC) No 273/2004 of the European Parliament and of the Council, of 11 February 2004 on drug precursors, Council Regulation (EC) No 111/2005 of 22 December 2004 laying down rules for the monitoring of trade between the Community and third countries in drug precursors, Commission Regulation (EC) No 1277/2005 of 27 July 2005 laying down implementing rules for Regulation (EC) No 273/2004 of the European Parliament and of the Council on drug precursors and for Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors.

16. Other information

The information included in this Safety Data Sheet is based on our most up-to-date knowledge, and is solely intended to inform regarding aspects of safety; the properties and characteristics indicated herein are not guaranteed.