

# MATERIAL SAFETY DATA SHEET (MSDS)

## **FOLIN & CIOCATEU'S PHENOL REAGENT**

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

1.1. Product identifier

Trade name : FOLIN & CIOCATEU'S PHENOL REAGENT

**Product code** : SI0304700500

CAS No: N/A

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use : Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet

SUVCHEM Company identification

Chaitanya Tower, 2nd Floor, Office # 206,

Siddharth Nagar, S.V. Road,

Goregaon (West), Mumbai - 400062,

Maharashtra, India.

Contact: +91 22 28725393 / 94 / 95

Email ID: info@suvchem.com/care@suvchem.com

1.4. Emergency telephone number

Phone no. : + 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [ Office hours ]

#### 2. Hazards identification -DSD

### 2.1. Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

Classification : Xn; R22

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

**Health hazards** : Skin corrosion - Category 1B - Danger (CLP : Skin Corr. 1B) H314

Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302

2.2. Label elements

Labelling EC 67/548 or EC 1999/45

Symbol(s)





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# 2. Hazards identification -DSD (continued)

Symbol(s) : Xn : Harmful

R Phrase(s) : R22 : Harmful if swallowed.

S Phrase(s) : S35 : This material and its container must be disposed of in a safe way.

S51: Use only in well-ventilated areas.

S59: Refer to manufacturer/supplier for information on recovery/recycling.

Contains : LITHIUM SULPHATE AR (monohydrate) - SODIUM TUNGSTATE (DIHYDRATE)

- Phosphoric acid - Hydrochloric acid - Molibdato de sodio dihidrato

#### Labelling Regulation EC 1272/2008 (CLP)

Hazard pictograms





Signal words : Danger

**Hazard statements** : H314 : Causes severe skin burns and eye damage.

H302: Harmful if swallowed.

**Precautionary statements** 

• **Prevention** : P280: Wear protective gloves, protective clothing, eye protection, face protection.

P260: Do not breathe dust, fume, gas, mist, vapours, spray.

P264: Wash thoroughly after handling.

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

• 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.

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

comfortable for breathing.

P303+P361+P353: IF ON SKIN (or hair): Remove immediately all contaminated

clothing. Rinse skin with water/shower.

P363: Wash contaminated clothing before reuse.

• Storage : P405: Store locked up.

• Disposal considerations : P501: Dispose of this material and its container to hazardous or special waste

collection point, in accordance with local, regional, national and/or international

regulation.

Contains : LITHIUM SULPHATE AR (monohydrate) - SODIUM TUNGSTATE (DIHYDRATE)

- Phosphoric acid - Hydrochloric acid - Molibdato de sodio dihidrato

2.3. Other hazards

Other hazards : The substance does not fulfil the criteria to be identified as PBT substance or vPvB

substance according to Annex XIII of Regulation REACH.



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# 3. Composition/information on ingredients

Substance / Preparation : Preparation.

**Hazardous component(s)** : This product is hazardous.

Substance name SODIUM TUNGSTATE (	:	Contents > 10 < 15 %	CAS No 10213-10-2	EC No	Annex No	REACH Ref.	Classification Xn; R22
DIHYDRATE)	•	10 10 70	10210 10 2				Acute Tox. 4 (oral) _ H302
Molibdato de sodio dihidrato	:	> 1 < 5 %	10102-40-6				Not classified (DSD/DPD)
							Not classified (GHS)
Hydrochloric acid	:	> 1 < 5 %	7647-01-0	231-595-7	017-002-01-X		C; R34 Xi; R37
							Skin Corr. 1B _ H314 STOT SE 3 _ H335
Phosphoric acid	:	> 1 < 5 %	7664-38-2	231-633-2	015-011-00-6		C; R34
							Skin Corr. 1B _ H314 Eye Dam 1 _ H318
LITHIUM SULPHATE AR (	:	> 15 < 25 %	10102-25-7				Xn; R22
monohydrate)							Acute Tox. 4 (oral) _ H302

### 4. First aid measures

### 4.1. Description of first aid measures

Inhalation : Immediately call a POISON CENTER or doctor. Remove to fresh air and keep at

rest in a position comfortable for breathing.

Skin contact : Remove/Take off immediately all contaminated clothing. Wash with plenty of soap

and water. Immediately call a POISON CENTER or doctor.

**Eye contact**: Immediately call a POISON CENTER or doctor. Remove contact lenses, if present

and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.

**Ingestion** : Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or

doctor.

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

**Symptoms relating to use** : Causes severe skin burns and eye damage.

Swallowing a small quantity of this material will result in serious health hazard.

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

General information : Never give anything by mouth to an unconscious person. If you feel unwell, seek

medical advice (show the label where possible).

# 5. Fire-fighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.



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# 5. Fire-fighting measures (continued)

Unsuitable extinguishing media

: Do not use a heavy water stream.

Surrounding fires

: Use water spray or fog for cooling exposed containers.

### 5.2. Special hazards arising from the substance or mixture

**Hazardous combustion products** 

: Under fire conditions, hazardous fumes will be present. Thermal decomposition generates : Corrosive vapours.

#### 5.3. Advice for fire-fighters

Protection against fire

: Do not enter fire area without proper protective equipment, including respiratory

protection.

Special procedures

: Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to

enter environment.

### 6. Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

For emergency responders

: Equip cleanup crew with proper protection.

Ventilate area.

For non-emergency personnel

: Evacuate unnecessary personnel.

#### 6.2. Environmental precautions

**Environmental precautions** 

: Prevent entry to sewers and public waters. Notify authorities if product enters

sewers or public waters.

# 6.3. Methods and material for containment and cleaning up

Clean up methods

: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as

possible. Store away from other materials. Collect spillage.

## 6.4. Reference to other sections

See section 8. Exposure controls/personal protection

#### 7. Handling and storage

#### 7.1. Precautions for safe handling

Handling

: Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dust, fume, gas, mist, vapours, spray. Wash contaminated

clothing before reuse.



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# 7. Handling and storage (continued)

**Technical protective measures**: Provide good ventilation in process area to prevent formation of vapour.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep only in the original container in a cool, well ventilated place. Keep container

closed when not in use.

**Storage regulation** : Comply with applicable regulations.

Storage - away from : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

Specific end use(s) : None.

### 8. Exposure controls/personal protection

#### 8.1. Exposure controls

**Personal protection** 











Personal protection : Avoid all unnecessary exposure.

Respiratory protectionHand protectionWear approved mask.Wear protective gloves.

Skin protection
 Eye protection
 Wear suitable protective clothing.
 Chemical goggles or face shield.

• Others : When using, do not eat, drink or smoke.

8.2. Control parameters

Occupational Exposure Limits : No data available.

# 9. Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Physical state at 20 °C : Liquid.

Colour : Colorless

Odour : Characteristic.

Odour threshold : No data available.

pH value : No data available.



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## 9. Physical and chemical properties (continued)

Melting point [°C] : No data available.

Decomposition point [°C] : N/A

Critical temperature [°C] : No data available.

Auto-ignition temperature [°C] : No data available.

Flammability (solid, gas) : N/A

Flash point [°C] : No data available.

Boiling point [°C] : N/A

Initial boiling point [°C] : No data available.
Final boiling point [°C] : No data available.

**Evaporation rate** : N/A

Vapour pressure [20°C]: No data available.Vapour pressure mm/Hg: 167 mm Hg at 20°C

Vapour density : 3,4

Density [g/cm3] : 1,27

Relative density, gas (air=1) : N/A

Relative density, liquid (water=1) : N/A

Solubility in water [% weight] : Soluble in water

Solubility in water : No data available.

Log Pow octanol / water at 20°C : No data available.

Solubility : < 0.5 at 20 °C

Viscosity at 40°C [mm2/s] : No data available.

9.2. Other information

Explosive properties : N/A

Explosion limits - upper [%]: No data available.Explosion limits - lower [%]: No data available.Oxidising properties: No data available.

### 10. Stability and reactivity

10.1. Reactivity

**Reactivity** : Not established.

10.2. Chemical stability

**Chemical stability** : Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions



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## 10. Stability and reactivity (continued)

**Hazardous reactions** : Not established.

10.4. Conditions to avoid

Conditions to avoid : Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Materials to avoid : Strong acids. Strong bases.

10.6. Hazardous decomposition products

**Hazardous decomposition products**: Fumes. Carbon monoxide. Carbon dioxide.

Thermal decomposition generates: Corrosive vapours.

### 11. Toxicological information

# 11.1. Information on toxicological effects

**Toxicity information**: The product has been not fully tested. The calculated risk has been done under the

requirements of the EU regulations.

**Acute toxicity** 

Inhalation : Based on available data, the classification criteria are not met.
 Dermal : Based on available data, the classification criteria are not met.

• Ingestion : Harmful if swallowed.

**Corrosion** : Causes severe skin burns and eye damage.

Irritation : Based on available data, the classification criteria are not met. : Based on available data, the classification criteria are not met. Sensitization : Based on available data, the classification criteria are not met. Mutagenicity Carcinogenicity : Based on available data, the classification criteria are not met. **Toxic for reproduction** : 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.

### 12. Ecological information

### 12.1. Toxicity

**Toxicity information**: The product has been not fully tested. The calculated risk has been done under the

requirements of the EU regulations.



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## 12. Ecological information (continued)

12.2. Persistence - degradability

Persistence - degradability : Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential : Not established.

12.4. Mobility in soil

Mobility in soil : Not established.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment: The substance does not fulfil the criteria to be identified as PBT substance or vPvB

substance according to Annex XIII of Regulation REACH.

12.6. Other adverse effects

**Environmental precautions** : Avoid release to the environment.

#### 13. Disposal considerations

### 13.1. Waste treatment methods

General : Avoid release to the environment. Dispose in a safe manner in accordance with

local/national regulations.

Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 14. Transport information

### 14.1. Land transport (ADR-RID)

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

UN N° : 3264 H.I. nr : 80 ADR - Class : 8

**Labelling - Transport** : 8 : Corrosive substance.





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## 14. Transport information (continued)

**ADR - Classification code** : C1 ADR - Group : 111

: P001 R001 LP001 **ADR - Packing instructions** 

**ADR - Limited Quantity** 

**ADR** - Tunnel code



: 5 L

: E : Passage forbidden through tunnels of category E.

## 14.2. Sea transport (IMDG) [English only]

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

UN N° : 3264

: 8 : Corrosive substance. **IMO-IMDG - Class or division** 

: 111 **IMO-IMDG** - Packing group

: P001 LP01 **IMO-IMDG - Packing instructions** 

: 5 L **IMO-IMDG - Limited quantities** : Yes **IMO-IMDG - Marine pollution EMS-Nr** : F-A S-B

# 14.3. Air transport (ICAO-IATA) [English only]

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

: 3264 UN N°

: 8 : Corrosive substance. IATA - Class or division

IATA - Packing group : 111

IATA - Passenger and Cargo Aircraft : ALLOWED

: 852 - Passenger and Cargo - Packing

instruction

- Passenger and Cargo - Maximum : 5 L

Quantity/Packing

: ALLOWED IATA - Cargo only

- Cargo only - Packing instruction : 856 - Cargo only - Maximum Quantity/

**Packing** 

**IATA - Limited Quantites** : 1 L **ERG-Nr** : 8L



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In accordance with REACH Regulation (CE) No 1907/2006 and with CLP Regulation (CE) No 1272/2008

# **DISCLAIMER:**

- SUVCHEM Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- SUVCHEM shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

**End of document**