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Oxford
Range of
Laboratory Chemicals

MATERIAL SAFETY DATA SHEET

FOLIN & CIOCATEU'S PHENOL REAGENT

(Phenol Reagent)

MSDS CAS: -

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name: FOLIN & CIOCATEU'S PHENOL REAGENT
CAS#: Not Available.
Synonym: Phenol Reagent
Chemical Name: Folin & Ciocateu's Phenol Reagent
Chemical Formula: Not Available.

Brand: OXFORD

Details Of The Supplier Of The Safety Data Sheet :

Company identification: OXFORD LAB FINE CHEM LLP
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Section 2: Composition and Information on Ingredients

Composition:

Substance name	Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
SODIUM TUNGSTATE (DIHYDRATE)	> 10 < 15 %	10213-10-2	-----	-----	-----	Xn; R22 ---------- Acute Tox. 4 (oral) _ H302

Section 2: Composition and Information on Ingredients (Continued)

Substance name	Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
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 (monohydrate)	> 15 < 25 %	10102-25-7	----	----	----	Xn; R22 ---------- Acute Tox. 4 (oral) _ H302

Section 3: Hazards Identification

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

Label elements
Labelling EC 67/548 or EC 1999/45
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.

Section 3: Hazards Identification (Continued)

Contains:
LITHIUM SULPHATE AR (monohydrate) - SODIUM TUNGSTATE (DIHYDRATE) - Phosphoric acid - Hydrochloric acid - Molibdato de sodio dihidrato

Labelling Regulation EC 1272/2008 (CLP)
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:
501: 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

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.

Section 4: First Aid Measures

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.**

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.**

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).**

Section 5: Fire and Explosion Data

Extinguishing media

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

Unsuitable extinguishing media: **Do not use a heavy water stream.**

Surrounding fires: **Use water spray or fog for cooling exposed containers.**

Special hazards arising from the substance or mixture

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

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.**

Section 6: Accidental Release Measures

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.

Environmental precautions:

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

Methods and material for containment and cleaning up

Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Store away from other materials. Collect spillage.

Section 7: Handling and Storage

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.

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

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.

Section 8: Exposure Controls/Personal Protection

Exposure controls

Personal protection: Avoid all unnecessary exposure.

Respiratory protection: Wear approved mask.

Hand protection: Wear protective gloves.

Skin protection: Wear suitable protective clothing.

Eye protection: Chemical goggles or face shield.

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

Control parameters

Occupational Exposure Limits: No data available.

Section 9: Physical and Chemical Properties

Physical state at 20 °C	**: Liquid.**
Colour	**: Colorless**
Odour	**: Characteristic.**
Odour threshold	**: No data available.**
pH value	**: No data available.**
Melting point [°C]	**: No data available.**
Decomposition point [°C]	**: Not available.**
Critical temperature [°C]	**: No data available.**
Auto-ignition temperature [°C]	**: No data available.**
Flammability (solid, gas)	**: Not available.**
Flash point [°C]	**: No data available.**
Boiling point [°C]	**: Not available.**
Initial boiling point [°C]	**: No data available.**
Final boiling point [°C]	**: No data available.**
Evaporation rate	**: Not available.**
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)	**: Not available.**
Relative density, liquid (water=1)	**: Not available.**
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.**

Section 10: Stability and Reactivity Data

Reactivity: **Not established**

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

Possibility of hazardous reactions: **Not established.**

Section 10: Stability and Reactivity Data (Continued)

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

Incompatible materials: **Strong acids. Strong bases.**

Hazardous decomposition products:
Fumes. Carbon monoxide. Carbon dioxide.
Thermal decomposition generates: Corrosive vapours.

Section 11: Toxicological Information

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.**
Sensitization: **Based on available data, the classification criteria are not met.**
Mutagenicity: **Based on available data, the classification criteria are not met.**
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.**

Section 12: Ecological Information

Toxicity information:
The product has been not fully tested. The calculated risk has been done under the requirements of the EU regulations.

Section 12: Ecological Information (Continued)

Persistence - degradability: **Biodegradable.**

Bioaccumulative potential: **Not established.**

Mobility in soil: **Not established.**

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.

Other adverse effects
Environmental precautions: **Avoid release to the environment.**

Section 13: Disposal Considerations

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.

Section 14: Transport Information

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.
ADR - Group: III

Section 14: Transport Information (Continued)

Sea transport (IMDG) [English only]

Proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
UN N°: 3264
IMO-IMDG - Class or division: 8 : Corrosive substance.
IMO-IMDG - Packing group: III

Air transport (ICAO-IATA) [English only]

Proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
UN N°: 3264
IATA - Class or division: 8 : Corrosive substance.
IATA - Packing group: III

Section 15: Other Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture
Safety, health and environmental regulations/legislation specific for the substance or mixture:
Ensure all national/local regulations are observed.
REACH Restrictions - Annex XVII: The components of this product are not subject to restrictions.
REACH Authorisation - Annex XIV: The components of this product are not subject to authorization.

Chemical Safety Assessment: It has not been carried out.

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

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