

CHAITANYA CHS, 2<sup>nd</sup> FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAI 400062, MH, INDIA.  
 CONTACT: +9122 28725393 /94/ 95 | EMAILID: CARE@SUVCHEM.COM

## MATERIAL SAFETY DATA SHEET (MSDS)

### HEMATOXYLIN (HARRIS) STAINING SOLUTION

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

##### 1.1. Product identifier

Trade name : HEMATOXYLIN (HARRIS) STAINING SOLUTION

Product code : SI0306100250  
 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

Company identification : SUVCHEM  
 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; R20/21/22  
 C; R34  
 R52-53

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

Health hazards : Acute toxicity, Oral - Category 3 - Danger (CLP : Acute Tox. 3) H301  
 Acute toxicity, dermal - Category 4 - Warning (CLP : Acute Tox. 4) H312  
 Skin corrosion - Category 1A - Danger (CLP : Skin Corr. 1A) H314

Environmental hazards : Hazardous to the aquatic environment - Chronic hazard - Category 3 (CLP :  
 Aquatic Chronic 3) H412

##### 2.2. Label elements

###### Labelling EC 67/548 or EC 1999/45

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**HEMATOXYLIN (HARRIS) STAINING SOLUTION**
**2. Hazards identification -DSD (continued)**

<b>Symbol(s)</b>	: NA
<b>Symbol(s)</b>	: NA
<b>R Phrase(s)</b>	: R20/21/22 : Harmful by inhalation, in contact with skin and if swallowed. R34 : Causes burns. R52/53 : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>S Phrase(s)</b>	: S24 : Avoid contact with skin. S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28 : After contact with skin, wash immediately with S35 : This material and its container must be disposed of in a safe way. S36/37/39 : Wear suitable protective clothing, gloves and eye/face protection. S45 : In case of accident or if you feel unwell, seek medical advice immediately ( show the label when possible). S59 : Refer to manufacturer/supplier for information on recovery/recycling. S61 : Avoid release to the environment. Refer to special instructions/Safety data sheets.
<b>Contains</b>	: Water - ALUMINIUM POTASSIUM SULFATE EXTRA PURE - Acetic acid - Ethanol - HEMATOXYLIN STAIN `Certified` C.I.No.75290 - MERCURIC OXIDE RED EXTRA PURE 99%

**Labelling Regulation EC 1272/2008 (CLP)**
**Hazard pictograms**

**Signal words**

<b>Hazard statements</b>	: H314 : Causes severe skin burns and eye damage. H301 : Toxic if swallowed. H312 : Harmful in contact with skin. H412 : Harmful to aquatic life with long lasting effects.
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**Precautionary statements**

<b>• Prevention</b>	: P280: Wear protective gloves, protective clothing, eye protection, face protection. P260: Do not breathe dust, fume, gas, mist, vapours, spray. P273: Avoid release to the environment. P264: Wash thoroughly after handling. P270: Do not eat, drink or smoke when using this product.
<b>• Response</b>	: P302+P352: IF ON SKIN : Wash with plenty of soap and water. 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.

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## HEMATOXYLIN (HARRIS) STAINING SOLUTION

### 2. Hazards identification -DSD (continued)

- **Storage** : P363: Wash contaminated clothing before reuse.
- **Disposal considerations** : 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** : Water - ALUMINIUM POTASSIUM SULFATE EXTRA PURE - Acetic acid - Ethanol - HEMATOXYLIN STAIN 'Certified' C.I.No.75290 - MERCURIC OXIDE RED EXTRA PURE 99%

### 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.

### 3. Composition/information on ingredients

- Substance / Preparation** : Preparation.
- Hazardous component(s)** : This product is hazardous.

Substance name	Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
HEMATOXYLIN STAIN 'Certified' : C.I.No.75290	> 0.01 < 1 %	517-28-2	----	----	----	Xi; R36/37/38 ----- Eye irrit 2 _ H319 Skin Irrit. 2 _ H315 STOT SE 3 _ H335
Ethanol	> 1 < 5 %	64-17-5	200-578-6	603-002-00-5	----	R10 C; R35 ----- Skin Corr. 1A _ H314 Flam. Liq. 3 _ H226
Acetic acid	> 5 < 10 %	64-19-7	200-580-7	607-002-00-6	----	R10 C; R35 ----- Skin Corr. 1A+ _ H314 Eye Dam 1 _ H318 Flam. Liq. 3 _ H226 Acute Tox. 4 (inhal) _ H332
MERCURIC OXIDE RED EXTRA PURE 99%	> 0.01 < 1 %	21908-53-2	----	----	----	T+; R26/27/28 R33 N; R50-53 ----- Acute Tox. 1 (skin) _ H310 Acute Tox. 2 (inhal) _ H330 Acute Tox. 1 (oral) _ H300 Aquatic Acute 1 _ H400 Aquatic Chronic 1 _ H410
ALUMINIUM POTASSIUM SULFATE EXTRA PURE	> 5 < 10 %	7784-24-9	----	----	----	Not classified (DSD/DPD) ----- Not classified (GHS)
Water	> 75 < 99 %	7732-18-5	231-791-2	----	----	Not classified (DSD/DPD) ----- Not classified (GHS)

### 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.

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### HEMATOXYLIN (HARRIS) STAINING SOLUTION

#### 4. First aid measures (continued)

<b>Skin contact</b>	: Wash contaminated clothing before reuse. Specific treatment (see on this label). Immediately call a POISON CENTER or doctor. Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing.
<b>Eye contact</b>	: 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.
<b>Ingestion</b>	: Rinse mouth. Specific treatment (see on this label). Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.

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

<b>Symptoms relating to use</b>	: Swallowing a small quantity of this material will result in serious health hazard. Repeated exposure to this material can result in absorption through skin causing significant health hazard. Causes severe skin burns and eye damage.
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#### 4.3. Indication of any immediate medical attention and special treatment needed

<b>General information</b>	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
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#### 5. Fire-fighting measures

##### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
<b>Unsuitable extinguishing media</b>	: Do not use a heavy water stream.
<b>Surrounding fires</b>	: Use water spray or fog for cooling exposed containers.

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

<b>Hazardous combustion products</b>	: Under fire conditions, hazardous fumes will be present. Thermal decomposition generates : Corrosive vapours.
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##### 5.3. Advice for fire-fighters

<b>Protection against fire</b>	: Do not enter fire area without proper protective equipment, including respiratory protection.
<b>Special procedures</b>	: 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

<b>For emergency responders</b>	: Equip cleanup crew with proper protection. Ventilate area.
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#### 6. Accidental release measures (continued)

**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.  
 Avoid release to the environment.

#### 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. Collect spillage. Store away from other materials.

#### 6.4. Reference to other sections

See section 8. Exposure controls/personal protection

#### 7. Handling and storage

#### 7.1. Precautions for safe handling

**Handling** : Avoid contact during pregnancy or while nursing. Do not breathe dust, fume, gas, mist, vapours, spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

**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**



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**8. Exposure controls/personal protection (continued)**

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.

**8.2. Control parameters**

Occupational Exposure Limits	: No data available.
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**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.
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	: N/A
Vapour density	: N/A
Density [g/cm <sup>3</sup> ]	: N/A
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: N/A
Solubility in water	: No data available.
Log Pow octanol / water at 20°C	: No data available.
Solubility	: N/A

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#### 9. Physical and chemical properties (continued)

Viscosity at 40°C [mm<sup>2</sup>/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

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 : Harmful in contact with skin.

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### HEMATOXYLIN (HARRIS) STAINING SOLUTION

#### 11. Toxicological information (continued)

• Ingestion	: Toxic 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.

#### 12. Ecological information

##### 12.1. Toxicity

Toxicity information : Harmful to aquatic life with long lasting effects.

##### 12.2. Persistence - degradability

Persistence - degradability : May cause long-term adverse effects in the environment.

##### 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.



## MATERIAL SAFETY DATA SHEET (MSDS)

### HEMATOXYLIN (HARRIS) STAINING SOLUTION

#### 13. Disposal considerations (continued)

Special precautions : Hazardous waste due to toxicity.

#### 14. Transport information

##### 14.1. Land transport (ADR-RID) - Not regulated

Proper shipping name : NA  
 UN N° : NA  
 H.I. nr : N A  
 ADR - Class : N A  
 Labelling - Transport : NA

ADR - Classification code : N A  
 ADR - Group : NA  
 ADR - Packing instructions : NA  
 ADR - Limited Quantity : N A  
 ADR - Tunnel code : NA

##### 14.2. Sea transport (IMDG).[English only] - Not regulated

Proper shipping name : NA  
 UN N° : NA  
 IMO-IMDG - Class or division : NA  
 IMO-IMDG - Packing group : NA  
 IMO- IMDG - Packing instructions : NA  
 IMO-IMDG - Limited quantities : N A  
 IMO-IMDG - Marine pollution : NA  
 EMS-Nr : NA

##### 14.3. Air transport (ICAO-IATA).[English only] - Not regulated

Proper shipping name : NA  
 UN N° : NA

## MATERIAL SAFETY DATA SHEET (MSDS)

### HEMATOXYLIN (HARRIS) STAINING SOLUTION

#### 14. Transport information (continued)

IATA - Class or division	: NA
IATA - Packing group	: NA
IATA - Passenger and Cargo Aircraft	: NA
- Passenger and Cargo - Packing instruction	: NA
- Passenger and Cargo - Maximum Quantity/Packing	: NA
IATA - Cargo only	: NA
- Cargo only - Packing instruction	: NA
- Cargo only - Maximum Quantity/Packing	: NA
IATA - Limited Quantities	: NA
ERG-Nr	: N A

#### 15. Regulatory information

##### 15.1. 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.

##### 15.2. Chemical Safety Assessment

Chemical Safety Assessment	: It has not been carried out.
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#### 16. Other information

Revision	: Revision - See : *
Abbreviations and acronyms	: PBT: persistent, bioaccumulative and toxic. vPvB: very persistent and very bioaccumulative
Sources of key data used	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
List of relevant R phrases (heading 3)	: R10 : Flammable. R26/27/28 : Very toxic by inhalation, in contact with skin and if swallowed. R33 : Danger of cumulative effects. R35 : Causes severe burns. R36/37/38 : Irritating to eyes, respiratory system and skin. R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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**MATERIAL SAFETY DATA SHEET (MSDS)**  
**HEMATOXYLIN (HARRIS) STAINING SOLUTION**

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 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**