

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)

### HAEMATOXYLIN (DELAFIELD'S) (STAINING SOLUTION)

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

##### 1.1. Product identifier

Trade name : HAEMATOXYLIN (DELAFIELD'S) (STAINING SOLUTION)

Product code : SI0305900250  
 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 : F+; R12  
 Xn; R20/21/22  
 C; R34  
 R52-53

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

Health hazards : Skin corrosion - Category 1A - Danger (CLP : Skin Corr. 1A) H314  
 Acute toxicity, Oral - Category 3 - Danger (CLP : Acute Tox. 3) H301  
 Acute toxicity, dermal - Category 4 - Warning (CLP : Acute Tox. 4) H312  
 Acute toxicity, Inhalation - Category 4 - Warning (CLP : Acute Tox. 4) H332

Physical hazards : Flammable liquids - Category 1 - Danger (CLP : Flam. Liq. 1) H224

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

##### 2.2. Label elements

**MATERIAL SAFETY DATA SHEET (MSDS)**
**HAEMATOXYLIN (DELAFIELD'S) (STAINING SOLUTION)**
**2. Hazards identification -DSD (continued)**
**Labelling EC 67/548 or EC 1999/45**
**Symbol(s)**

**Symbol(s)**

 : C : Corrosive  
 F+ : Extremely flammable

**R Phrase(s)**

 : R12 : Extremely flammable.  
 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.

**S Phrase(s)**

 : S3 : Keep in a cool place.  
 S9 : Keep container in a well-ventilated place.  
 S16 : Keep away from sources of ignition - No smoking.  
 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  
 S33 : Take precautionary measures against static discharges.  
 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.  
 S43 : In case of fire, use .  
 S45 : In case of accident or if you feel unwell, seek medical advice immediately ( show the label when possible).  
 S51 : Use only in well-ventilated areas.  
 S59 : Refer to manufacturer/supplier for information on recovery/recycling.  
 S61 : Avoid release to the environment. Refer to special instructions/Safety data sheets.

**Contains**

: 1,2,3-Propanetriol(glycerin) - Ethanol - ALUMINIUM AMMONIUM SULPHATE ( DODECAHYDRATE) EXTRA - HEMATOXYLIN STAIN `Certified` C.I.No.75290 - MERCURIC OXIDE RED EXTRA PURE 99%

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

**Signal words**

: Danger

**Hazard statements**

 : H224 : Extremely flammable liquid and vapour.  
 H314 : Causes severe skin burns and eye damage.  
 H301 : Toxic if swallowed.  
 H312 : Harmful in contact with skin.  
 H332 : Harmful if inhaled.  
 H412 : Harmful to aquatic life with long lasting effects.

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## MATERIAL SAFETY DATA SHEET (MSDS)

### HAEMATOXYLIN (DELAFIELD'S) (STAINING SOLUTION)

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

##### Precautionary statements

##### • Prevention

: P240: Ground/bond container and receiving equipment.  
 P241: Use explosion-proof electrical, ventilating, lighting, ..., equipment.  
 P210: Keep away from heat, sparks, open flames or hot surfaces. - No smoking.  
 P280: Wear protective gloves, protective clothing, eye protection, face protection.  
 P271: Use only outdoors or in a well-ventilated area.  
 P260: Do not breathe dust, fume, gas, mist, vapours, spray.  
 P273: Avoid release to the environment.  
 P233: Keep container tightly closed.  
 P264: Wash thoroughly after handling.  
 P270: Do not eat, drink or smoke when using this product.

##### • Response

: 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.  
 P363: Wash contaminated clothing before reuse.  
 P370+P378: In case of fire: Use for extinction.

##### • Storage

: P403+P235: Store in well-ventilated place. Keep cool.  
 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

: HEMATOXYLIN STAIN 'Certified' C.I.No.75290 - Ethanol - MERCURIC OXIDE RED EXTRA PURE 99% - 1,2,3-Propanetriol(glycerin) - ALUMINIUM AMMONIUM SULPHATE (DODECAHYDRATE) EXTRA

#### 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 :	> 5 < 10 %	64-17-5	200-578-6	603-002-00-5	----	R10 C; R35 ----- Skin Corr. 1A _ H314 Flam. Liq. 3 _ H226

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## MATERIAL SAFETY DATA SHEET (MSDS)

### HAEMATOXYLIN (DELAFIELD'S) (STAINING SOLUTION)

#### 3. Composition/information on ingredients (continued)

Substance name	Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
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
1,2,3-Propanetriol(glycerin)	> 25 < 35 %	56-81-5	200-289-5	----	----	Not classified (DSD/DPD) ----- Not classified (GHS)
ALUMINIUM AMMONIUM SULPHATE (DODECAHYDRATE) EXTRA	> 1 < 5 %	7784-26-1	----	----	----	Xi; R36/37/38 ----- Eye irrit 2 _ H319 Skin Irrit. 2 _ H315 STOT SE 3 _ H335

#### 4. First aid measures

##### 4.1. Description of first aid measures

<b>Inhalation</b>	: Call a POISON CENTER or doctor if you feel unwell. Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor.
<b>Skin contact</b>	: Immediately call a POISON CENTER or doctor. Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Specific treatment (see on this label). Wash contaminated clothing before reuse.
<b>Eye contact</b>	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
<b>Ingestion</b>	: Specific treatment (see on this label). Immediately call a POISON CENTER or doctor. Rinse mouth. 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. Danger of serious damage to health by prolonged exposure through inhalation. 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

**MATERIAL SAFETY DATA SHEET (MSDS)**
**HAEMATOXYLIN (DELAFIELD'S) (STAINING SOLUTION)**
**5. Fire-fighting measures (continued)**

- 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.

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

- Flammable class** : Extremely flammable liquid and vapour.
- 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.
- Technical measures** : Use special care to avoid static electric charges.
- Special precautions** : Remove ignition sources. No naked lights. No smoking.
- 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. Store away from other materials. Collect spillage.

**6.4. Reference to other sections**

See section 8. Exposure controls/personal protection

## MATERIAL SAFETY DATA SHEET (MSDS)

### HAEMATOXYLIN (DELAFIELD'S) (STAINING SOLUTION)

#### 7. Handling and storage

##### 7.1. Precautions for safe handling

<b>Handling</b>	: Handle empty containers with care because residual vapours are flammable. Take precautionary measures against static discharge. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid contact during pregnancy or while nursing. Do not breathe dust, fume, gas, mist, vapours, spray.
<b>Technical protective measures</b>	: Provide good ventilation in process area to prevent formation of vapour. Proper grounding procedures to avoid static electricity should be followed. Use only non-sparking tools. Use explosion-proof electrical, ventilating, lighting, ..., equipment.
<b>Special precautions</b>	: No naked lights. No smoking.

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

<b>Storage</b>	: Keep only in the original container in a cool, well ventilated place. Keep in fireproof place. Ground/bond container and receiving equipment. Keep container tightly closed.
<b>Storage regulation</b>	: Comply with applicable regulations.
<b>Storage - away from</b>	: Strong bases. Strong acids. Sources of ignition. Direct sunlight. Heat sources.

##### 7.3. Specific end use(s)

<b>Specific end use(s)</b>	: None.
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#### 8. Exposure controls/personal protection

##### 8.1. Exposure controls

##### Personal protection



<b>Personal protection</b>	: Avoid all unnecessary exposure.
• <b>Respiratory protection</b>	: In case of insufficient ventilation, wear suitable respiratory equipment.
• <b>Hand protection</b>	: Wear protective gloves.
• <b>Skin protection</b>	: Wear suitable protective clothing.
• <b>Eye protection</b>	: Chemical goggles or face shield.



**MATERIAL SAFETY DATA SHEET (MSDS)**
**HAEMATOXYLIN (DELAFIELD'S) (STAINING SOLUTION)**
**8. Exposure controls/personal protection (continued)**

• 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.
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 Extremely flammable liquid and vapour.
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> ]	: 1.038 g/cm <sup>3</sup> at 20 °C
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
Viscosity at 40°C [mm <sup>2</sup> /s]	: No data available.

**9.2. Other information**

**MATERIAL SAFETY DATA SHEET (MSDS)**
**HAEMATOXYLIN (DELAFIELD'S) (STAINING SOLUTION)**
**9. Physical and chemical properties (continued)**

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.
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**10.2. Chemical stability**

Chemical stability	: Stable under recommended storage conditions.
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**10.3. Possibility of hazardous reactions**

Hazardous reactions	: Not established.
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**10.4. Conditions to avoid**

Conditions to avoid	: Direct sunlight. Extremely high or low temperatures. Sparks. Heat. Overheating. Open flame.
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**10.5. Incompatible materials**

Materials to avoid	: Strong acids. Strong bases.
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**10.6. Hazardous decomposition products**

Hazardous decomposition products	: Fumes. Carbon monoxide. Carbon dioxide. Thermal decomposition generates : Corrosive vapours. May release flammable gases.
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**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	: Harmful if inhaled.
• Dermal	: Harmful in contact with skin.



**MATERIAL SAFETY DATA SHEET (MSDS)**
**HAEMATOXYLIN (DELAFIELD'S) (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.
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**12.2. Persistence - degradability**

Persistence - degradability	: May cause long-term adverse effects in the environment.
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**12.3. Bioaccumulative potential**

Bioaccumulative potential	: Not established.
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**12.4. Mobility in soil**

Mobility in soil	: Not established.
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**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.
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**12.6. Other adverse effects**

Environmental precautions	: Avoid release to the environment.
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**13. Disposal considerations**
**13.1. Waste treatment methods**

**MATERIAL SAFETY DATA SHEET (MSDS)**
**HAEMATOXYLIN (DELAFIELD'S) (STAINING SOLUTION)**
**13. Disposal considerations (continued)**

<b>General</b>	: 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.
<b>Special precautions</b>	: Hazardous waste due to toxicity. Handle empty containers with care because residual vapours are flammable.

**14. Transport information**
**14.1. Land transport (ADR-RID)**

<b>Proper shipping name</b>	: FLAMMABLE LIQUID, N.O.S.
<b>UN N°</b>	: 1993
<b>H.I. nr</b>	: 30
<b>ADR - Class</b>	: 3
<b>Labelling - Transport</b>	: 3 : Flammable liquid.



<b>ADR - Classification code</b>	: F1
<b>ADR - Group</b>	: III
<b>ADR - Packing instructions</b>	: P001 R001 LP001
<b>ADR - Limited Quantity</b>	: 5 L
<b>ADR - Tunnel code</b>	: D/E : Bulk or tank carriage: Passage forbidden through tunnels of category D and E. Other carriage: Passage forbidden through tunnels of category E.


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

<b>Proper shipping name</b>	: FLAMMABLE LIQUID, N.O.S.
<b>UN N°</b>	: 1993
<b>IMO-IMDG - Class or division</b>	: 3 : Flammable liquid.
<b>IMO-IMDG - Packing group</b>	: III
<b>IMO-IMDG - Packing instructions</b>	: P001 LP01
<b>IMO-IMDG - Limited quantities</b>	: 5 L
<b>IMO-IMDG - Marine pollution</b>	: No

## MATERIAL SAFETY DATA SHEET (MSDS)

### HAEMATOXYLIN (DELAFIELD'S) (STAINING SOLUTION)

#### 14. Transport information (continued)

EMS-Nr : F-E S-E

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

Proper shipping name : FLAMMABLE LIQUID, N.O.S.

UN N° : 1993

IATA - Class or division : 3 : Flammable liquid.

IATA - Packing group : III

IATA - Passenger and Cargo Aircraft : ALLOWED

- Passenger and Cargo - Packing instruction : 355

- Passenger and Cargo - Maximum Quantity/Packing : 60 L

IATA - Cargo only : ALLOWED

- Cargo only - Packing instruction : 366

- Cargo only - Maximum Quantity/Packing : 220 L

IATA - Limited Quantities : 10 L

ERG-Nr : 3L

#### 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.

#### 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

**MATERIAL SAFETY DATA SHEET (MSDS)**

**HAEMATOXYLIN (DELAFIELD'S) (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**