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## MATERIAL SAFETY DATA SHEET (MSDS)

### NEWMAN'S STAIN (MODIFIED)

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

##### 1.1. Product identifier

Trade name : NEWMAN'S STAIN (MODIFIED)

Product code : SI0309300100  
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 : T+; R26/27  
C; R35  
R52-53

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

Health hazards : Acute toxicity, dermal - Category 1 - Danger (CLP : Acute Tox. 1) H310  
Skin corrosion - Category 1A - Danger (CLP : Skin Corr. 1A) H314  
Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2) H319  
Acute toxicity, Inhalation - Category 2 - Danger (CLP : Acute Tox. 2) H330

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

##### 2.2. Label elements

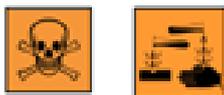
###### Labelling EC 67/548 or EC 1999/45

### MATERIAL SAFETY DATA SHEET (MSDS)

### NEWMAN'S STAIN (MODIFIED)

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

**Symbol(s)**



**Symbol(s)**

: T+ : Very toxic  
C : Corrosive

**R Phrase(s)**

: R26/27 : Very toxic by inhalation and in contact with skin.  
R35 : Causes severe burns.  
R52/53 : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**S Phrase(s)**

: S4 : Keep away from living quarters.  
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.  
S38 : In case of insufficient ventilation, wear suitable respiratory equipment.  
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.

**Contains**

: Ethanol - 1,1,2,2-Tetrachloroethane - Acetic acid - METHYLENE BLUE - FUCHSIN BASIC for Microscopy

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

**Hazard pictograms**



**Signal words**

: Danger

**Hazard statements**

: H310 : Fatal in contact with skin.  
H330 : Fatal if inhaled.  
H314 : Causes severe skin burns and eye damage.  
H319 : Causes serious eye irritation.  
H412 : Harmful to aquatic life with long lasting effects.

**Precautionary statements**

**• Prevention**

: P284: Wear respiratory protection.  
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.  
P264: Wash thoroughly after handling.  
P270: Do not eat, drink or smoke when using this product.

### MATERIAL SAFETY DATA SHEET (MSDS)

### NEWMAN'S STAIN (MODIFIED)

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

- **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.  
P302+P350: IF ON SKIN : Gently wash with plenty of soap and water.  
P303+P361+P353: IF ON SKIN (or hair) : Remove immediately all contaminated clothing. Rinse skin with water/shower.  
P363: Wash contaminated clothing before reuse.  
P337+P313: If eye irritation persists: Get medical advice/attention.  
P361: Remove immediately all contaminated clothing.
- **Storage** : P403+P233: Store in well-ventilated place. Keep container tightly closed.  
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** : Ethanol - 1,1,2,2-Tetrachloroethane - Acetic acid - METHYLENE BLUE - FUCHSIN BASIC for Microscopy

#### 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
1,1,2,2-Tetrachloroethane	> 15 < 25 %	79-34-5	201-197-8	602-015-00-3	----	T+; R26/27 N; R51-53 ----- Acute Tox. 1 (skin) _ H310 Acute Tox. 2 (inhal) _ H330 Aquatic Chronic 2 _ H411
Ethanol	> 25 < 50 %	64-17-5	200-578-6	603-002-00-5	----	R10 C; R35 ----- Skin Corr. 1A _ H314 Flam. Liq. 3 _ H226
METHYLENE BLUE	> 0.01 < 1 %	61-73-4	----	----	----	Xn; R22 ----- Acute Tox. 4 (oral) _ H302
Acetic acid	> 1 < 5 %	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
FUCHSIN BASIC for Microscopy	> 0.01 < 1 %	632-99-5	----	----	----	R45 R68 Xn; R22-68 ----- Acute Tox. 4 (oral) _ H302 STOT SE 2 _ H371

**MATERIAL SAFETY DATA SHEET (MSDS)**
**NEWMAN'S STAIN (MODIFIED)**
**4. First aid measures**
**4.1. Description of first aid measures**

<b>Inhalation</b>	: Specific treatment is urgent (see on this label). Immediately call a POISON CENTER or doctor. Remove to fresh air and keep at rest in a position comfortable for breathing.
<b>Skin contact</b>	: Specific treatment (see on this label). Immediately call a POISON CENTER or doctor. Wash with plenty of soap and water. Wash contaminated clothing before reuse. Remove/Take off immediately all contaminated clothing.
<b>Eye contact</b>	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists : Get medical advice. Immediately call a POISON CENTER or doctor.
<b>Ingestion</b>	: 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>	: Fatal in contact with skin. Fatal if inhaled. Causes severe skin burns and eye damage. Causes serious eye irritation.
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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.

**MATERIAL SAFETY DATA SHEET (MSDS)**
**NEWMAN'S STAIN (MODIFIED)**
**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.  
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** : Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dust, fume, gas, mist, vapours, spray. Use only outdoors or in a well-ventilated area.

**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 tightly closed.

**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.

**MATERIAL SAFETY DATA SHEET (MSDS)**
**NEWMAN'S STAIN (MODIFIED)**
**8. Exposure controls/personal protection**
**8.1. Exposure controls**
**Personal protection**

**Personal protection**

- **Respiratory protection** : Avoid all unnecessary exposure.  
: Wear respiratory protection.
- **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.

**9. Physical and chemical properties**
**9.1. Information on basic physical and chemical properties**

<b>Physical state at 20 °C</b>	: Liquid.
<b>Colour</b>	: Colorless
<b>Odour</b>	: Characteristic.
<b>Odour threshold</b>	: No data available.
<b>pH value</b>	: No data available.
<b>Melting point [°C]</b>	: No data available.
<b>Decomposition point [°C]</b>	: N/A
<b>Critical temperature [°C]</b>	: No data available.
<b>Auto-ignition temperature [°C]</b>	: No data available.
<b>Flammability (solid, gas)</b>	: N/A
<b>Flash point [°C]</b>	: No data available.
<b>Boiling point [°C]</b>	: N/A
<b>Initial boiling point [°C]</b>	: No data available.
<b>Final boiling point [°C]</b>	: No data available.
<b>Evaporation rate</b>	: N/A

**MATERIAL SAFETY DATA SHEET (MSDS)**
**NEWMAN'S STAIN (MODIFIED)**
**9. Physical and chemical properties (continued)**

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
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.
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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.
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**10.5. Incompatible materials**

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

## MATERIAL SAFETY DATA SHEET (MSDS)

### NEWMAN'S STAIN (MODIFIED)

#### 10. Stability and reactivity (continued)

**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** : Fatal if inhaled.
- **Dermal** : Fatal in contact with skin.
- **Ingestion** : Based on available data, the classification criteria are not met.

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

**Irritation** : Causes serious eye irritation.

**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

### MATERIAL SAFETY DATA SHEET (MSDS)

#### NEWMAN'S STAIN (MODIFIED)

#### 12. Ecological information (continued)

**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.

**Special precautions** : Hazardous waste due to toxicity.

#### 14. Transport information

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

**Proper shipping name** : ETHANOL (ETHYL ALCOHOL) / ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

**UN N°** : 1170

**H.I. nr** : 33

**ADR - Class** : 3

**Labelling - Transport** : 3 : Flammable liquid.



**ADR - Classification code** : F1  
F1

**ADR - Group** : II

**ADR - Packing instructions** : P001 R001

**ADR - Limited Quantity** : 1 L

**ADR - Tunnel code** : D/E : Bulk or tank carriage: Passage forbidden through tunnels of category D and E. Other carriage: Passage forbidden through tunnels of category E.



**MATERIAL SAFETY DATA SHEET (MSDS)**
**NEWMAN'S STAIN (MODIFIED)**
**14. Transport information (continued)**
**14.2. Sea transport (IMDG).[English only]**

Proper shipping name	: ETHANOL (ETHYL ALCOHOL) / ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
UN N°	: 1170
IMO-IMDG - Class or division	: 3 : Flammable liquid.
IMO-IMDG - Packing group	: II
IMO- IMDG - Packing instructions	: P001
IMO-IMDG - Limited quantities	: 1 L
IMO-IMDG - Marine pollution	: No
EMS-Nr	: F-E S-D

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

Proper shipping name	: ETHANOL (ETHYL ALCOHOL) / ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
UN N°	: 1170
IATA - Class or division	: 3 : Flammable liquid.
IATA - Packing group	: II
IATA - Passenger and Cargo Aircraft	: ALLOWED
- Passenger and Cargo - Packing instruction	: 353
- Passenger and Cargo - Maximum Quantity/Packing	: 5 L
IATA - Cargo only	: ALLOWED
- Cargo only - Packing instruction	: 364
- Cargo only - Maximum Quantity/Packing	: 60 L
IATA - Limited Quantities	: 1 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	: With the exception of those listed below: The components of this product are not subject to restrictions. • 1,1,2,2-Tetrachloroethane : Annex XVII

**MATERIAL SAFETY DATA SHEET (MSDS)**

**NEWMAN'S STAIN (MODIFIED)**

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**