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## MATERIAL SAFETY DATA SHEET (MSDS)

### MAY & GRUNWALD'S SOLUTION MODIFIED (FOR MICROSCOPY)

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

##### 1.1. Product identifier

Trade name : MAY & GRUNWALD'S SOLUTION MODIFIED (FOR MICROSCOPY)

Product code : SI0307500250  
 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; R23/24/25-R39/23/24/25

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

Health hazards : Specific Target Organ Toxicity - Single exposure - Category 1 - Danger (CLP : STOT SE 1) H370  
 Acute toxicity, dermal - Category 3 - Danger (CLP : Acute Tox. 3) H311  
 Acute toxicity, Inhalation - Category 3 - Danger (CLP : Acute Tox. 3) H331  
 Acute toxicity, Oral - Category 3 - Danger (CLP : Acute Tox. 3) H301

##### 2.2. Label elements

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

**MATERIAL SAFETY DATA SHEET (MSDS)**
**MAY & GRUNWALD'S SOLUTION MODIFIED (FOR MICROSCOPY)**
**2. Hazards identification -DSD (continued)**
**Symbol(s)**

**Symbol(s)**

: T : Toxic

**R Phrase(s)**

 : R23/24/25 : Toxic by inhalation, in contact with skin and if swallowed.  
 R39/23/24/25 : Toxic : danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

**S Phrase(s)**

 : S4 : Keep away from living quarters.  
 S24 : Avoid contact with skin.  
 S28 : After contact with skin, wash immediately with  
 S35 : This material and its container must be disposed of in a safe way.  
 S36/37 : Wear suitable protective clothing and gloves.  
 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.

**Contains**

: Methanol - MAY AND ARUNWALD'S STAIN

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

**Signal words**

: Danger

**Hazard statements**

 : H301 : Toxic if swallowed.  
 H311 : Toxic in contact with skin.  
 H331 : Toxic if inhaled.  
 H370 : Causes damage to organ.

**Precautionary statements**
**• Prevention**

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

**• Response**

 : P301+P310: IF SWALLOWED : Immediately call a POISON CENTER or doctor.  
 P307+P311: IF EXPOSED : Call a POISON CENTER or doctor.  
 P302+P352: IF ON SKIN : Wash with plenty of soap and water.  
 P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.  
 P363: Wash contaminated clothing before reuse.  
 P361: Remove immediately all contaminated clothing.

**• Storage**

 : P403+P233: Store in well-ventilated place. Keep container tightly closed.  
 P405: Store locked up.

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## MATERIAL SAFETY DATA SHEET (MSDS)

### MAY & GRUNWALD'S SOLUTION MODIFIED (FOR MICROSCOPY)

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

- **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.  
 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** : Methanol - MAY AND ARUNWALD'S STAIN

#### 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

<b>Substance / Preparation</b>		: Preparation.					
<b>Hazardous component(s)</b>		: This product is hazardous.					
<b>Substance name</b>	<b>Contents</b>	<b>CAS No</b>	<b>EC No</b>	<b>Annex No</b>	<b>REACH Ref.</b>	<b>Classification</b>	
<b>MAY AND ARUNWALD'S STAIN</b>	: > 0.01 < 1 %	68988-92-1	-----	-----	----	Xn; R22 Xi; R36  Acute Tox. 4 (oral) _ H302 Eye irrit 2 _ H319	
<b>Methanol</b>	: > 99 %	67-56-1	200-659-6	603-001-00-X	----	F; R11 T; R23/24/25-39/23/24/25  Flam. Liq. 2 _ H225 Acute Tox. 3 (skin) _ H311 Acute Tox. 3 (inhal) _ H331 Acute Tox. 3 (oral) _ H301 STOT SE 1 _ H370	

#### 4. First aid measures

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

- Inhalation** : Specific treatment (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.
- Skin contact** : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor. Specific treatment (see on this label). Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing.
- Eye contact** : Obtain medical attention if pain, blinking or redness persist. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Ingestion** : Do NOT induce vomiting. Rinse mouth. Specific treatment (see on this label). Immediately call a POISON CENTER or doctor.

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

**MATERIAL SAFETY DATA SHEET (MSDS)**
**MAY & GRUNWALD'S SOLUTION MODIFIED (FOR MICROSCOPY)**
**4. First aid measures (continued)**

**Symptoms relating to use** : 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.  
 Swallowing a small quantity of this material will result in serious health hazard.  
 Causes damage to organ.

**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). Call a POISON CENTER or doctor.  
 Specific treatment (see on this label).

**5. Fire-fighting measures**
**5.1. 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.

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

**Flammable class** : Highly flammable liquid and vapour.  
**Hazardous combustion products** : Under fire conditions, hazardous fumes will be present.

**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.  
 Avoid breathing dust, fume, gas, mist, vapours, spray.  
**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**

**MATERIAL SAFETY DATA SHEET (MSDS)**
**MAY & GRUNWALD'S SOLUTION MODIFIED (FOR MICROSCOPY)**
**6. Accidental release measures (continued)**

**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** : Handle empty containers with care because residual vapours are flammable. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Do not breathe dust, fume, gas, mist, vapours, spray.

**Technical protective measures** : Provide good ventilation in process area to prevent formation of vapour. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof electrical, ventilating, lighting, ..., equipment.

**Special precautions** : No naked lights. No smoking.

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

**Storage** : Keep only in the original container in a cool, well ventilated place. Keep in fireproof place. Keep container tightly closed. Ground/bond container and receiving equipment.

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

**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)**

<b>Personal protection</b>	: Avoid all unnecessary exposure.
• <b>Respiratory protection</b>	: In case of insufficient ventilation, wear suitable respiratory equipment. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.
• <b>Hand protection</b>	: Wear protective gloves.
• <b>Eye protection</b>	: Chemical goggles or safety glasses.
• <b>Others</b>	: When using, do not eat, drink or smoke.

**8.2. Control parameters**

<b>Occupational Exposure Limits</b>	: No data available.
<b>Occupational Exposure Limits</b>	: Methanol : OEL (UK)-LTEL [ppm] : 200 Methanol : OEL (UK)-STEL [ppm] : 250 Methanol : ILV (EU) - 8 H - [mg/m <sup>3</sup> ] : ( 260 Skin. ) Methanol : ILV (EU) - 8 H - [ppm] : ( 200 Skin. ) Methanol : HTP-värden - 8 H - [ppm] : 200 Methanol : HTP-värden - 15min - [ppm] : 250 Methanol : HTP-värden - 8 H - [mg/m <sup>3</sup> ] : 270 Methanol : HTP-värden - 15min - [mg/m <sup>3</sup> ] : 330 Methanol : NGV - [ppm] : 200 Methanol : NGV - [mg/m <sup>3</sup> ] : 250 Methanol : KTV - [ppm] : 250 Methanol : KTV - [mg/m <sup>3</sup> ] : 350 Methanol : VLA-ED [ppm] : 200 Methanol : VLA-ED [mg/m <sup>3</sup> ] : 266 Methanol : VLA-EC [ppm] : 250 Methanol : VLA-EC [mg/m <sup>3</sup> ] : 333

**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>	: -98°C
<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>	: Flammable. Highly flammable liquid and vapour.

**MATERIAL SAFETY DATA SHEET (MSDS)**
**MAY & GRUNWALD'S SOLUTION MODIFIED (FOR MICROSCOPY)**
**9. Physical and chemical properties (continued)**

Flash point [°C]	: No data available.
Boiling point [°C]	: 65 °C
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> ]	: 0,79
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: Complete.
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. Open flame.
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**MATERIAL SAFETY DATA SHEET (MSDS)**
**MAY & GRUNWALD'S SOLUTION MODIFIED (FOR MICROSCOPY)**
**10. Stability and reactivity (continued)**
**10.5. Incompatible materials**

**Materials to avoid** : Strong acids. Strong bases.

**10.6. Hazardous decomposition products**

**Hazardous decomposition products** : Fumes. Carbon monoxide. Carbon dioxide.  
May release flammable gases.

**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 : Toxic if inhaled.
- Dermal : Toxic in contact with skin.
- Ingestion : Toxic if swallowed.

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

**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** : Causes damage to organ.  
Causes damage to organ.

**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.

**12.2. Persistence - degradability**

**Persistence - degradability** : Biodegradable.



**MATERIAL SAFETY DATA SHEET (MSDS)**
**MAY & GRUNWALD'S SOLUTION MODIFIED (FOR MICROSCOPY)**
**12. Ecological information (continued)**
**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.

**Special precautions** : Hazardous waste due to toxicity.  
 Handle empty containers with care because residual vapours are flammable.

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

Proper shipping name : METHANOL  
 UN N° : 1230  
 H.I. nr : 336  
 ADR - Class : 3  
 Labelling - Transport : 3 : Flammable liquid. 6.1 : Toxic substances.



**MATERIAL SAFETY DATA SHEET (MSDS)**
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**14. Transport information (continued)**

ADR - Classification code	: FT1 FT1
ADR - Group	: II
ADR - Packing instructions	: P001
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.


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

Proper shipping name	: METHANOL
UN N°	: 1230
IMO-IMDG - Class or division	: 3 : Flammable liquid. ( 6.1 : Toxic substances. )
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	: METHANOL
UN N°	: 1230
IATA - Class or division	: 3 : Flammable liquid. ( 6.1 : Toxic substances. )
IATA - Packing group	: II
IATA - Passenger and Cargo Aircraft	: ALLOWED
- Passenger and Cargo - Packing instruction	: 352
- Passenger and Cargo - Maximum Quantity/Packing	: 1 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

**MATERIAL SAFETY DATA SHEET (MSDS)**

**MAY & GRUNWALD'S SOLUTION MODIFIED (FOR MICROSCOPY)**

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**