

CHAITANYA CHS, 2nd 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)

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 : SI0307500125
 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

Substance / Preparation		: Preparation.				
Hazardous component(s)		: This product is hazardous.				
Substance name	Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
MAY AND ARUNWALD'S STAIN	> 0.01 < 1 %	68988-92-1	-----	-----	----	Xn; R22 Xi; R36 Acute Tox. 4 (oral) _ H302 Eye irrit 2 _ H319
Methanol	> 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



MATERIAL SAFETY DATA SHEET (MSDS)
MAY & GRUNWALD'S SOLUTION MODIFIED (FOR MICROSCOPY)
8. Exposure controls/personal protection (continued)

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

8.2. Control parameters

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

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]	: -98°C
Decomposition point [°C]	: N/A
Critical temperature [°C]	: No data available.
Auto-ignition temperature [°C]	: No data available.
Flammability (solid, gas)	: 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 ³]	: 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 ² /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)
MAY & GRUNWALD'S SOLUTION MODIFIED (FOR MICROSCOPY)
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

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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.

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