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MATERIAL SAFETY DATA SHEET (MSDS)

METHYLENE BLUE ALKALINE (LOFFLER'S) (STAINING SOLUTION)

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

1.1. Product identifier

Trade name : METHYLENE BLUE ALKALINE (LOFFLER'S) (STAINING SOLUTION)

Product code : SI0307700250
 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 : C; R35

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

Health hazards : Skin corrosion - Category 1A - Danger (CLP : Skin Corr. 1A) H314

2.2. Label elements

Labelling EC 67/548 or EC 1999/45

Symbol(s)



Symbol(s) : C : Corrosive

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2. Hazards identification -DSD (continued)

R Phrase(s)	: R35 : Causes severe burns.
S Phrase(s)	: 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.
Contains	: Water - Ethanol - METHYLENE BLUE - Potassium hydroxide

Labelling Regulation EC 1272/2008 (CLP)
Hazard pictograms


Signal words	: Danger
Hazard statements	: H314 : Causes severe skin burns and eye damage.
Precautionary statements	
• Prevention	: P280: Wear protective gloves, protective clothing, eye protection, face protection. P260: Do not breathe dust, fume, gas, mist, vapours, spray. P264: Wash thoroughly after handling.
• 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. P303+P361+P353: IF ON SKIN (or hair) : Remove immediately all contaminated clothing. Rinse skin with water/shower. P363: Wash contaminated clothing before reuse.
• Storage	: 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 - Ethanol - METHYLENE BLUE - Potassium hydroxide

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.
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MATERIAL SAFETY DATA SHEET (MSDS)

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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
METHYLENE BLUE	: > 0.01 < 1 %	61-73-4	-----	-----	----	Xn; R22 ----- Acute Tox. 4 (oral) _ H302
Ethanol	: > 15 < 25 %	64-17-5	200-578-6	603-002-00-5	----	R10 C; R35 ----- Skin Corr. 1A _ H314 Flam. Liq. 3 _ H226
Potassium hydroxide	: < 0.01 %	1310-58-3	215-181-3	019-002-00-8	----	Xn; R22 C; R35 ----- Skin Corr. 1A+ _ H314 Eye Dam 1 _ H318 Acute Tox. 4 (oral) _ H302
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	: Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor.
Skin contact	: Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Immediately call a POISON CENTER or doctor.
Eye contact	: 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.
Ingestion	: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting.

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

Symptoms relating to use	: Causes severe skin burns and eye damage.
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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).
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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.

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5. Fire-fighting measures (continued)

Surrounding fires : Use water spray or fog for cooling exposed containers.

5.2. Special hazards arising from the substance or mixture

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.

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.

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 : Do not breathe dust, fume, gas, mist, vapours, spray. Avoid contact during pregnancy or while nursing. Wash thoroughly after handling.

Technical protective measures : Provide good ventilation in process area to prevent formation of vapour.

MATERIAL SAFETY DATA SHEET (MSDS)
METHYLENE BLUE ALKALINE (LOFFLER'S) (STAINING SOLUTION)
7. Handling and storage (continued)
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.
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8. Exposure controls/personal protection
8.1. Exposure controls
Personal protection


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.
Occupational Exposure Limits	: Potassium hydroxide : OEL (UK)-STEL [ppm] : 2
	Potassium hydroxide : HTP-värden - 8 H - [mg/m³] : 2
	Potassium hydroxide : NGV - [mg/m³] : 1
	Potassium hydroxide : VLA-EC [mg/m³] : 2

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

Physical state at 20 °C	: Liquid.
Colour	: Colorless
Odour	: Characteristic.

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9. Physical and chemical properties (continued)

Odour threshold	: 100 ppm
pH value	: No data available.
Melting point [°C]	: -114.1°C
Decomposition point [°C]	: N/A
Critical temperature [°C]	: No data available.
Auto-ignition temperature [°C]	: No data available.
Flammability (solid, gas)	: Flammable.
Flash point [°C]	: 12.78°C
Boiling point [°C]	: 78.5°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	: 1,59
Density [g/cm ³]	: 0,93
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: In water, material soluble.
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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MATERIAL SAFETY DATA SHEET (MSDS)
METHYLENE BLUE ALKALINE (LOFFLER'S) (STAINING SOLUTION)
10. Stability and reactivity (continued)
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 : Based on available data, the classification criteria are not met.
- Ingestion : Based on available data, the classification criteria are not met.

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.

MATERIAL SAFETY DATA SHEET (MSDS)
METHYLENE BLUE ALKALINE (LOFFLER'S) (STAINING SOLUTION)
12. Ecological information (continued)

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.

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.

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

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

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14. Transport information (continued)


ADR - Classification code : F1
 ADR - Group : III
 ADR - Packing instructions : P001 R001 LP001
 ADR - Limited Quantity : 5 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 : FLAMMABLE LIQUID, N.O.S.
 UN N° : 1993
 IMO-IMDG - Class or division : 3 : Flammable liquid.
 IMO-IMDG - Packing group : III
 IMO-IMDG - Packing instructions : P001 LP01
 IMO-IMDG - Limited quantities : 5 L
 IMO-IMDG - Marine pollution : Yes
 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

MATERIAL SAFETY DATA SHEET (MSDS)

METHYLENE BLUE ALKALINE (LOFFLER'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.

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