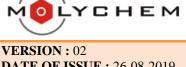
METHYLENE BLUE ALKALINE
(LOFFLER'S) STAINING SOLUTION

Product Code : 31930



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1. Identification of the substance/mixture and of the company/undertaking **1.1. Product identifier Trade name : METHYLENE BLUE ALKALINE Product code** : 31930 **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** : MOLYCHEM Office: 78/80 Babu Genu Road, Souri Bldg., 2nd Floor, Mumbai – 400 002 (INDIA) Tel: +91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442. Email: info@molychem.net Works: Plot No. B/9, Badlapur M.I.D.C., OPP. Shobhavat Textile Co., Kulgaon, Badlapur (E), Dist.-Thane-421 503. **1.4.** Emergency telephone number Emergency number : +91 22 4066 8111 (10:00am - 6:00 pm). 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) : C : Corrosive



**R Phrase**(**s**) : R10 : Flammable.

R35 : Causes severe burns.

R36/37/38: Irritating to eyes, respiratory system and skin.

**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).

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S59 : Refer to manufacturer/supplier for information on recovery/recycling. 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.

### 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. CAS No Substance name Contents **METHYLENE BLUE** : > 0.01 < 1 % 61-73-4 Ethanol : > 15 < 25 %64-17-5 Potassium hydroxide : < 0.01 % 1310-58-3 Water : > 75 < 99 % 7732-18-5

# Material Safety Data Sheet

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### 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.

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).

# 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

**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.

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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.
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.
8. Exposure controls/personal protection
8.1. Exposure controls
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/m <sup>3</sup> ] : 2
Potassium hydroxide : NGV - [mg/m <sup>3</sup> ] : 1
Potassium hydroxide : VLA-EC [mg/m <sup>3</sup> ] : 2
9. Physical and chemical properties
9.1. Information on basic physical and chemical properties
Developing to to at 20 °C + Liquid
Physical state at 20 °C : Liquid. Odour threshold: 100 ppm

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**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/cm3] : 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 [mm2/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. **10.2.** Chemical stability Chemical stability : Stable under recommended storage conditions. 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.

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### **10.6. Hazardous decomposition products**

**Hazardous decomposition products** : Fumes. Carbon monoxide. Carbon dioxide. Thermal decomposition generates : Corrosive vapours.

### **<u>11. Toxicological information</u>**

### **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.

### **<u>12. Ecological information</u>**

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.

**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.

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### **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. 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 : 355

instruction

- Passenger and Cargo - Maximum : 60 L

**Quantity/Packing** 

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IATA - Cargo only : ALLOWED - Cargo only - Packing instruction : 366 - Cargo only - Maximum Quantity/ : 220 L Packing IATA - Limited Quantites : 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** : Ensure all national/local regulations are observed. **regulations/legislation specific for the substance or mixture** 

**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**

**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 **Further information** : None.

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End of document **Prepared by: MOLYCHEM (INDIA)** 

For questions contact: MOLYCHEM Office: 78/80 Babu Genu Road, Souri Bldg., 2nd Floor, Mumbai – 400 002 (INDIA) Tel: +91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442. Email : info@molychem.net Works: Plot No. B/9, Badlapur M.I.D.C., OPP. Shobhavat Textile Co., Kulgaon, Badlapur (E), Dist.-Thane-421 503

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