

# SOUTHERN GROUP LABORATORY LIMITED

## SAFETY DATA SHEET

<b>SECTION 1.</b>	<b>IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING</b>
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### 1.1 Product identifier

**Product name** Methylene Blue, Loeffler

**SGL Product code** 0315

This product is a mixture.

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Reagent for laboratory analysis

**Uses advised against** No information on uses against available.

### 1.3. Details of the supplier of the safety data sheet

**Supplier** Southern Group Laboratory,  
Cavendish Courtyard, Sallow Road,  
Weldon North Industrial Estate,  
Corby, Northants,  
United Kingdom.  
NN17 5JX.

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Available 9am-5pm (UK time) Mon to Fri except UK public holidays

**Emergency telephone** NHS Direct: 0845 4647 (England and Wales)  
NHS 24: 08454 24 24 24 (Scotland)

<b>SECTION 2. HAZARDS IDENTIFICATION</b>
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### 2.1 Classification of the substance or mixture

Classification according to regulation (EC) No 1272/2008

#### Physical hazards

Flammable Liquid (category 2): H225

#### Health hazards

Acute Toxicity – Oral (category 4): H302

#### Environmental hazards

Based on available data, no classification met

For the full text of the H-Statements mentioned see Section 16.

### 2.2. Label elements

#### Pictogram



#### Signal word

DANGER

#### Hazard statements

H225: Highly flammable liquid and vapour  
H302: Harmful if swallowed

#### Precautionary statements

P210: Keep away from heat/sparks/open flames/hot surfaces. – No smoking.  
P233: Keep container tightly closed.  
P240: Ground/bond container and receiving equipment.  
P241: Use explosion-proof electrical/ventilating/lighting/equipment.  
P242: Use only non-sparkling tools.  
P243: Take precautionary measures against static discharge.  
P264: Wash hands thoroughly after handling.  
P270: Do not eat, drink or smoke when using this product.  
P280: Wear protective gloves/protective clothing/eye protection/ face protection.  
P301+P302: IF SWALLOWED: Call a POISON Center or doctor/physician if you feel unwell.

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.  
 Rinse skin with water/shower.  
 P330: Rinse mouth.  
 P370+P378: In case of fire: Use water spray, dry powder, foam or carbon dioxide for extinction.  
 P403+P235: Store in a well-ventilated place. Keep cool.  
 P501: Dispose of contents/container in accordance with national regulations.

**2.3. Other hazards** None

<b>SECTION 3.</b>	<b>COMPOSITION/INFORMATION ON INGREDIENTS</b>
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**3.1. Mixtures**

Name	EC No.	CAS-No.	Concentration	Classification
IMS consisting of: Ethanol and Methanol	200-578-6 200-659-6	64-17-5 67-56-1	23 % v/v	Flammable Liquid 2: H225 Acute Tox. 4 (Oral): H302
Methylene Blue	200-515-2	61-73-4	<0.5% w/v	Acute Tox. 4 (Oral): H302
Potassium hydroxide	215-181-3	1310-58-3	<0.01% w/v	Acute Tox. 4 (Oral): H302 Skin Corr. 1A: H314 Substance or Mixture Corrosive to Metals. 1: H290

**Composition comments** The data shown are in accordance with Regulation (EC) No. 1272/2008.

<b>SECTION 4.</b>	<b>FIRST-AID MEASURES</b>
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**4.1 Description of first aid measures**

- Inhalation** Immediately remove from exposure to fresh air and keep at rest in a position comfortable for breathing. If breathing is irregular or stopped administer artificial respiration. If experiencing respiratory symptoms call a POISON CENTER or doctor/physician.
  
- Ingestion** Do NOT induce vomiting. Wash out mouth thoroughly with water. Give nothing to eat or drink. Immediately call a POISON CENTER or doctor/physician.
  
- Skin contact** Wash off thoroughly with plenty of soap and water. Remove contaminated clothing immediately and wash before re-use. If skin irritation or rash occurs get medical advice and/or attention.
  
- Eye Contact** Remove contact lenses, if present and easy to do. Immediately irrigate thoroughly with water for at least 15 minutes. Protect uninjured eye.

**Self Protection of the first aider**      Wear gloves (nitrile rubber recommended). Wash hands thoroughly after handling.

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

None known.

**4.3. Indication of any immediate attention and special treatment needed**

None known.

**Notes for doctor**      No specific recommendations.

<b>SECTION 5.</b>	<b>FIRE – FIGHTING MEASURES</b>
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**5.1. Extinguishing media**

**Suitable extinguishing media**      Water fog, foam, carbon dioxide (CO<sub>2</sub>), dry powder

**Unsuitable extinguishing media**      None known

Prevent fire fighting media from entering watercourses or ground water.

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

**Hazardous combustion products**      Toxic products may be liberated by fire.

**5.3. Advice for firefighters**

**Protective actions during firefighting**      Wear self contained breathing apparatus (SCBA) and prevent skin contact.

<b>SECTION 6.</b>	<b>ACCIDENTAL RELEASE MEASURES</b>
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**6.1. Personal precautions, protective equipment and emergency procedures**

Wear personal protective clothing as described in Section 8 of this safety data sheet. Avoid breathing vapours or aerosols. Avoid contact. Provide adequate ventilation.

**6.2. Environmental precautions**

Must not be released into the environment.

**6.3. Methods and material for containment and cleaning up**

Collect spillage using suitable non-combustible material. Seal material in closed container avoiding the generation of aerosols or vapours. Wear personal protective clothing as recommended in Section 8. Cover drains to avoid releasing into environment. Dispose as recommended in Section 13.

#### 6.4. Reference to other sections

Section 8 for protective measures.  
 Section 13 for disposal considerations.

<b>SECTION 7.</b>	<b>HANDLING AND STORAGE</b>
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#### 7.1 Precautions for safe handling

Wear personal protective clothing. Avoid contact with skin, eyes and clothing. Avoid formation of aerosols or vapours. Ensure adequate ventilation. Change contaminated clothing. Wash hands after working with material. Keep away from sources of ignition – no smoking. Take precautionary measures against static discharges.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store according to label requirements. Keep closed and in a cool environment.

#### 7.3 Specific end use(s)

Use in laboratories.

<b>SECTION 8.</b>	<b>EXPOSURE CONTROLS/PERSONAL PROTECTION</b>
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#### 8.1 Control parameters

Component	CAS No	Long Term Exposure Limit (8 hr TWA Reference Period)	Short Term Exposure (15 Min Reference Period)	Basis	Comments
Ethanol	64-17-5	1000 ppm 1920 mg/m <sup>3</sup>	Not Stated	UK. EH40 Workplace Exposure Limits	None
Methanol	67-56-1	200 ppm 266 mg/m <sup>3</sup>	250 ppm 333 mg/m <sup>3</sup>	UK. EH40 Workplace Exposure Limits	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.
Potassium hydroxide	1310-58-3	None stated	2 mg/m <sup>3</sup>	UK. EH40 Workplace Exposure Limits	None

For those substances for which no short-term limit is specified, it is recommended that a figure of three times the long-term limit be used as a guideline for controlling short-term peaks in exposure.

## 8.2 Exposure controls

### Engineering measures

Avoid inhalation of vapours, sprays, mists. Handle in well ventilated area. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

### Protective equipment



### Eye/face protection

Safety goggles (tightly fitting) complying with Standard EN166.

### Hand protection

Disposable nitrile rubber gloves complying with EC Directive 89/686/EEC and Standard EN374  
Glove thickness of 0.11mm  
See manufacturer's recommendations for break through times  
Material tested: Not applicable

**Other skin and body protection** Long sleeved clothing. If handling large quantities use plastic apron, boots.

### Hygiene measures

Wash hands immediately after use.

### Respiratory protection

Required if vapour/aerosols are generated. Full or half mask complying with DIN EN 136/140.

<b>SECTION 9.</b>	<b>PHYSICAL AND CHEMICAL PROPERTIES</b>
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**9.1. Information on basic physical and chemical properties**

<b>Appearance</b>	Liquid
<b>Colour</b>	Dark blue
<b>Odour</b>	Alcoholic
<b>Odour threshold</b>	No data available
<b>pH</b>	No data available
<b>Melting point/freezing point</b>	No data available
<b>Initial boiling point and boiling range</b>	No data available
<b>Flash point</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Upper/lower flammability or explosive limits</b>	
<b>Lower explosion limit (VOL-%)</b>	No data available
<b>Upper explosion limit (VOL-%)</b>	No data available
<b>Vapour pressure</b>	No data available
<b>Vapour density</b>	No data available
<b>Relative density</b>	No data available
<b>Solubility(ies)</b>	No data available
<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Auto-ignition temperature</b>	No data available
<b>Decomposition temperature</b>	No data available
<b>Viscosity</b>	No data available
<b>Explosive properties</b>	No data available
<b>Oxidising properties</b>	No data available

**9.2. Other information**

None

<b>SECTION 10.</b>	<b>STABILITY AND REACTIVITY</b>
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**10.1 Reactivity**

No data available.

**10.2 Chemical stability**

No data available.

**10.3 Possibility of hazardous reactions**

No data available.

**10.4 Conditions to avoid**

Oxidizing agents.

### **10.5 Incompatible materials**

No data available.

### **10.6 Hazardous decomposition products**

No data available.

<b>SECTION 11. TOXICOLOGICAL INFORMATION</b>
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### **11.1 Information on toxicological effects**

The acute toxicity data is based on the mixture.

<b>Acute oral toxicity</b>	Acute Toxicity (Category 4): H302 Harmful if swallowed
<b>ATE<sub>mix</sub></b>	>300 and <2000 mg/kg
<b>Method</b>	Calculation
<b>Acute dermal toxicity</b>	No data available
<b>Acute inhalation toxicity</b>	No data available
<b>Skin corrosion/irritation</b>	No data available
<b>Serious eye damage/irritation</b>	No data available
<b>Respiratory or skin sensitisation</b>	No data available
<b>Germ cell mutagenicity</b>	No data available
<b>Carcinogenicity</b>	No data available
<b>Reproductive toxicity</b>	No data available
<b>STOT single exposure</b>	No data available
<b>STOT repeated exposure</b>	No data available
<b>Aspiration hazard</b>	No data available

### **11.2 Additional information**

No data available

<b>SECTION 12. ECOLOGICAL INFORMATION</b>
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### **12.1 Toxicity**

No information available



**12.2 Persistence and degradability**

No information available

**12.3 Bioaccumulative potential**

No information available

**12.4 Mobility in soil**

No information available

**12.5 Results of PBT and vPvB assessment**

No information available

**12.6 Other adverse effects**

No information available

<b>SECTION 13.</b>	<b>DISPOSAL CONSIDERATIONS</b>
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**13.1 Waste treatment methods**

Dispose of in accordance with applicable local and national regulations.

<b>SECTION 14.</b>	<b>TRANSPORT INFORMATION</b>
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**Land transport (ADR/RID) / Sea transport (IMDG) / Air transport (ICAO-TI/IATA-DGR)**

- |   |                 |
|---|-----------------|
| <b>14.1 <u>UN number</u></b>                    | 1170            |
| <b>14.2 <u>UN proper shipping name</u></b>      | ETHANOL MIXTURE |
| <b>14.3 <u>Transport hazard class(es)</u></b>   | 3               |
| <b>14.4 <u>Packing group</u></b>                | III             |
| <b>14.5 <u>Environmental hazards</u></b>        | No              |
| <b>14.6 <u>Special precautions for user</u></b> | Yes             |

Tunnel restriction code E.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable, packaged goods.

<b>SECTION 15. REGULATORY INFORMATION</b>
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**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

EU legislation 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 (as amended).

**15.2 Chemical safety assessment**

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

<b>SECTION 16. OTHER INFORMATION</b>
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**16.1 Relevant H- and EUH-phrases (number and full text)**

H225: Highly flammable liquid and vapour  
H290: May be corrosive to metals  
H302: Harmful if swallowed  
H314: Causes severe skin burns and eye damage

**16.2 Additional information**

The above information is based on present knowledge, but does not purport to be inclusive and should only be used as a guide. Southern Group Laboratory shall not be held liable for any damage resulting from handling or from contact with the above product.

The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made up material.

**16.3 Revision summary**

**Changes to this issue** Updated to format compliant with Regulation (EC) No 1907/2006 (REACH), the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) and Regulation (EC) No 1272/2008 (CLP).

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**END OF SAFETY DATA SHEET**