

# SAFETY DATA SHEET

METHYLENE BLUE

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Revision No: 1

## 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

**Product name:** METHYLENE BLUE

**CAS number:** 61-73-4

**EINECS number:** 200-515-2

**Product code:** M-10941

**Synonyms:** C.I.52015

**Use of substance / preparation:** As a general purpose laboratory reagent

**Company name:** Park Scientific Ltd

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Moulton Place

Northampton

NN3 6HY

Tel: 01604 646945

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## 2. HAZARDS IDENTIFICATION

**Main hazards:** Harmful if swallowed. Irritating to eyes, respiratory system and skin.

**Other hazards:** Signal word. Warning H302 Harmful if swallowed. H315 Causes skin irritation H319-Causes serious eye irritation. H335 May cause respiratory irritation.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Contains:** Organic dye

## 4. FIRST AID MEASURES (SYMPTOMS)

**Skin contact:** Irritant may cause staining

**Eye contact:** There may be irritation and redness.

**Ingestion:** harmful. Irritation in the urinary tract.

**Inhalation:** Harmful

## 4. FIRST AID MEASURES (ACTION)

**Skin contact:** Wash immediately with plenty of soap and water. Remove all contaminated clothes and footwear immediately unless stuck to skin. Consult a doctor.

**Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.

**Ingestion:** Wash out mouth with water. Give 1 cup of water to drink every 10 minutes. Consult a doctor.

**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

## 5. FIRE-FIGHTING MEASURES

**Extinguishing media:** Water spray.

**Exposure hazards:** Combustible May evolve toxic fumes in fire.

**Protection of fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

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**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions:** Do not attempt to take action without suitable protective clothing - see section 8 of SDS.

**Environmental precautions:** Do not discharge into drains or rivers.

**Clean-up procedures:** Mix with sand or vermiculite. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Wash the spillage site with large amounts of water.

**7. HANDLING AND STORAGE**

**Handling requirements:** Ensure there is sufficient ventilation of the area. Avoid the formation or spread of dust in the air. Avoid direct contact with the substance. Wash hands and face thoroughly after working with material. Contaminated clothing should be removed and washed before re-use.

**Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed. Keep away from direct sunlight. Avoid contact with water or humidity.

**Suitable packaging:** Must only be kept in original packaging.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Workplace exposure limits**

**WEL (8 hr TWA):** None assigned

**Engineering measures:** Ensure there is sufficient ventilation of the area. Use only in a chemical fume hood.

**Respiratory protection:** Respiratory protective device with particle filter.

**Hand protection:** Protective gloves.

**Eye protection:** Face-shield.

**Skin protection:** Protective clothing with elasticated cuffs and closed neck.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**State:** Solid

**Colour:** Dark green

**Odour:** Odourless

**Evaporation rate:** Negligible

**Oxidising:** Non-oxidising (by EC criteria)

**Solubility in water:** Soluble

**Viscosity:** Non-viscous

**Boiling point/range°C:** No data

**Melting point/range°C:** 180°C

**Flammability limits %: lower:** No data

**Flash point°C:** Not applicable

**Autoflammability°C:** No data

**pH:** 3(10g/H<sub>2</sub>O)

**10. STABILITY AND REACTIVITY**

**Stability:** Stable under normal conditions.

**Conditions to avoid:** Direct sunlight. Moist air. Humidity.

**Materials to avoid:** Strong oxidising agents. The possibility of reaction with other substances cannot be excluded

**Haz. decomp. products:** No further data available.

**11. TOXICOLOGICAL INFORMATION**

**Chronic toxicity:** Evidence of mutagenic effects. Further hazardous properties cannot be excluded. The product should be handled with care usual when dealing with chemicals

**Routes of exposure:** Refer to section 4 of SDS for routes of exposure and corresponding symptoms.

**12. ECOLOGICAL INFORMATION**

**Mobility:** Non-volatile.

**Persistence and degradability:** No data available.

**Bioaccumulative potential:** No data available.

**Other adverse effects:** Adverse ecological effects cannot be excluded in the event of improper handling or disposal.  
Do not allow to enter drinking water supplies, waste water, or soil!

**13. DISPOSAL CONSIDERATIONS**

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company.

**Disposal of packaging:** Arrange for collection by specialised disposal company.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

**14. TRANSPORT INFORMATION****ADR / RID****IMDG / IMO****IATA / ICAO****15. REGULATORY INFORMATION**

**Hazard symbols:** Harmful.



**Risk phrases:** R22: Harmful if swallowed.

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

**Safety phrases:** S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36: Wear suitable protective clothing.

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**Precautionary phrases:** P261 Avoid heating dust/fumes/gas/mist/vapours/spray.  
P305+P351+P338 IF IN EYES:Rinse cautiously with water for several minutes.Remove contact lenses,if present and easy to do. Continue rinsing.

**Note:** The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

### 16. OTHER INFORMATION

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

