



# SAFETY DATA SHEET

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Revision nr : 10

Date : 27 / 4 / 2016

Supersedes : 11 / 3 / 2013

## Methylene blue pure for analysis

**310950**

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

#### 1.1. Product identifier

Trade name : Methylene blue pure for analysis

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

Use : For professional use only.

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

Company identification : RAL DIAGNOSTICS  
Site Montesquieu  
33650 MARTILLAC FRANCE  
Tel : +33 (0) 5 57 96 04 04 Fax : +33 (0) 5 57 96 04 05  
www.ral-diagnostics.com  
Email: commercial@ral-diagnostics.fr

#### 1.4. Emergency telephone number

Emergency phone nr : ORFILA : +33 (0) 1 45 42 59 59

### SECTION 2 Hazards identification

#### 2.1. Classification of the substance or mixture

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

• Health hazards : Acute toxicity, Oral - Category 4 - Warning - (CLP : Acute Tox. 4) - H302

#### 2.2. Label elements

##### Labelling Regulation EC 1272/2008 (CLP)

• Hazard pictograms



• Hazard pictograms : GHS07  
• Signal words : Warning  
• Hazard statements : H302 - Harmful if swallowed

##### • Precautionary statements

- Response : P301+P312+P330 - IF SWALLOWED : Call a POISON CENTER or doctor if you feel unwell.  
Rinse mouth.

#### 2.3. Other hazards

Other hazards : None under normal conditions.

### SECTION 3 Composition/information on ingredients

Substance / Preparation : Substance.

This product is considered to be hazardous and contains hazardous components.

Substance name	Value(s)	CAS nr	EINECS nr	EC index	REACH	Classification
Methylene blue	: 100 %	61-73-4	200-515-2	-----	----	Acute Tox. 4 (Oral);H302

C.I. (colour index) : 52015

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### SECTION 4. First aid measures

#### 4.1. Description of first aid measures

##### First aid

- **Inhalation** : Take victim to fresh air. Obtain medical attention if breathing difficulty persists.
- **Skin contact** : Seek medical attention if ill effect develops.
- **Eye contact** : Rinse with water. Seek medical attention if irritation develops.
- **Ingestion** : Rinse mouth. Seek medical attention immediately.

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

- **Inhalation** : Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure. Dry throat. Headache.
- **Skin contact** : Not expected to present a significant skin hazard under anticipated conditions of normal use.
- **Eye contact** : Not expected to present a significant eye contact hazard under anticipated conditions of normal use.
- **Ingestion** : Harmful if swallowed. Must not come into contact with food or be consumed. The absorption of this material leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. It may appear after 2 to 4 hours or more. Ingestion may cause nausea, vomiting and diarrhea.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No data available.

### SECTION 5. Fire-fighting measures

#### 5.1. Extinguishing media

**Extinguishing media** : All extinguishing media can be used.

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

Carbon oxides Nitrogen oxides. sulfur oxides. hydrochloric gas.

#### 5.3. Advice for fire-fighters

- Flammable class** : Not combustible.
- Protection against fire** : Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6. Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** : Equip cleanup crew with proper protection. Respiratory protection equipment may be necessary.

#### 6.2. Environmental precautions

**Environmental precautions** : Prevent entry to sewers and public waters.

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

**After spillage and/or leakage** : Sweep or shovel spills into appropriate container for disposal. Dispose in a safe manner in accordance with local/national regulations.

#### 6.4. Reference to other sections

See Heading 8.



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### SECTION 7. Handling and storage

#### 7.1. Precautions for safe handling

- General** : Store and handle as though always a serious potential fire/explosion and health hazard exists.
- Handling** : Handle in accordance with appropriate industrial hygiene and safety procedures. Keep away from food, drink and animal feeding stuffs. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.
- Technical protective measures** : Dust extraction (suction)

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

- Storage** : Keep cool. Store in dry, well-ventilated area.

#### 7.3. Specific end use(s)

Not applicable.

### SECTION 8. Exposure controls/personal protection

#### 8.1. Control parameters

No data available.

#### 8.2. Exposure controls

##### Personal protection



- **Respiratory protection** : Wear a mask with particle filter type P95 (U.S.) or type P1 (EN143). For a level of respiratory protection higher, use respirator cartridges type OV/AG/P99 (U.S.) or type ABEK-P2 (EN 143).
- **Hand protection** : Gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.  
In full:  
Material: nitrile rubber.  
Minimum thickness: 0.11 mm.  
Break through time: >480 min.  
Material tested: Dermatril® (Aldrich Z677272).  
In the event of splashes:  
Material: nitrile rubber.  
Minimum thickness: 0.11 mm.  
Break through time: > 30 min.  
Material tested: Dermatril® (Aldrich Z677272).  
Source of data: KCL GmbH, D-36124 Eichenzell, Telephone +49 (0)6659 873000, e-mail : sales@kcl.de, Methode test : EN374.
- **Skin protection** : Complete suit protecting against chemicals. Choose body protection in relation to the dangerousness of the product, its concentration and the amounts used depending on the workstation.
- **Eye protection** : Goggles. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
- **Ingestion** : When using, do not eat, drink or smoke.
- **Industrial hygiene** : Provide local exhaust or general room ventilation to minimize exposure to dust. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.



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### SECTION 9. Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

##### 9.1.a. Appearance

**Physical state** : Cristallin powder.  
**Colour** : Dark green or dark blue copperplated

##### 9.1.b. Odour

No data available.

##### 9.1.c. Odour threshold

No data available.

##### 9.1.d. pH

No data available.

##### 9.1.e. Melting point / Freezing point

No data available.

##### 9.1.f. Initial boiling point - boiling range

No data available.

##### 9.1.g. Flash point

No data available.

##### 9.1.h. Evaporation rate

No data available.

##### 9.1.i. Flammability

No data available.

##### 9.1.j. Explosion limits (lower - upper)

No data available.

##### 9.1.k. Vapour pressure

No data available.

##### 9.1.l. Vapour density

No data available.

##### 9.1.m. Relative density

No data available.

##### 9.1.n. Solubility

No data available.

##### 9.1.o. Partition coefficient : n-octanol / water

No data available.

##### 9.1.p. Auto-ignition temperature

No data available.

##### 9.1.q. Thermal decomposition

No data available.

##### 9.1.r. Viscosity

No data available.

##### 9.1.s. Explosive Properties

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### SECTION 9. Physical and chemical properties (continued)

No data available.

#### 9.1.t. Oxidising properties

No data available.

#### 9.2. Other information

No data available.

### SECTION 10. Stability and reactivity

#### 10.1. Reactivity

No data available.

#### 10.2. Chemical stability

**Physico-chemical stability** : Stable in normal temperature and pressure conditions.

#### 10.3. Possibility of hazardous reactions

No data available.

#### 10.4. Conditions to avoid

No data available.

#### 10.5. Incompatible materials

**Materials to avoid** : Strong oxidisers.

#### 10.6. Hazardous decomposition products

**Hazardous decomposition products** : Nitrogen oxides. Hydrogen chloride. Carbon monoxide. Carbon dioxide.

### SECTION 11. Toxicological information

#### 11.1. Information on toxicological effects

- **Acute toxicity** : No data available.
- **Skin corrosion/irritation** : No data available.
- **Serious eye damage/irritation** : No data available.
- **Respiratory or skin sensitisation** : No data available.
- **Germ cell mutagenicity** : No data available.
- **Carcinogenicity** : IARC (International Agency for Research on Cancer). No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
  
- **Reproductive toxicity** : No data available.
- **STOT-single exposure** : No data available.
- **STOT-repeated exposure** : No data available.
- **Aspiration hazard** : No data available.
- **Potential effects on health** : May be harmful if inhaled. May cause respiratory irritation.  
Harmful if swallowed  
May be harmful in contact with skin. May produce skin irritation.  
May cause eye irritation.
  
- **Signs and symptoms of exposure** : The absorption of this material leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. It may appear after 2 to 4 hours or more. Ingestion may cause nausea, vomiting and diarrhea.



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### SECTION 12. Ecological information

#### 12.1. Toxicity

No data available.

#### 12.2. Persistence - degradability

No data available.

#### 12.3. Bioaccumulative potential

No data available.

#### 12.4. Mobility in soil

No data available.

#### 12.5. Results of PBT and vPvB assessment

No data available.

#### 12.6. Other adverse effects

Not release to the environment.

### SECTION 13. Disposal considerations

#### 13.1. Waste treatment methods

Disposal

: Dispose in a safe manner in accordance with local/national regulations.  
Dispose of this material and its container at hazardous or special waste collection point.

### SECTION 14. Transport information

#### 14.1. UN number

• UN No. : Unregulated.

#### 14.2. UN proper shipping name

• Proper shipping name : Unregulated.

#### 14.3. Transport hazard class(es)

• Hazard Label(s) : Unregulated.

• Class : Unregulated.

- H.I. nr : Unregulated.

• Classification code : Unregulated.

#### 14.4. Packing group

• ADR Packing group : Unregulated.

• IMO Packing group : Unregulated.

• IATA Packing group : Unregulated.

#### 14.5. Environmental hazards

• IMDG-Marine pollution : Unregulated.

#### 14.6. Special precautions for user

Emergency action in case of accident

• IMO-IMDG code : FS : Unregulated.

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

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**Methylene blue pure for analysis****310950****SECTION 14. Transport information (continued)****SECTION 15. Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Ensure all national/local regulations are observed.

**15.2. Chemical Safety Assessment**

Not applicable.

**SECTION 16. Other information**

**H Substances ' sentences' text** : H302 - Harmful if swallowed  
**Revision** : 10  
**Print date** : 27 / 4 / 2016  
**Further information** : Product intended for professional use only.

The contents and format of this SDS are in accordance with REGULATION (EC) No 453/2010 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL.

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**End of document**

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