

# Safety Data Sheet

According to Hazardous Products Regulation (SOR/2015-17)

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## SECTION 1: Identification

### Product identifier

|                                |                                    |
|--------------------------------|------------------------------------|
| Trade name/designation:        | Toluidine blue O HIGH PURITY GRADE |
| Product No.:                   | 0672                               |
| Synonyms:                      | none/none                          |
| CAS No.:                       | 92-31-9                            |
| Other means of identification: |                                    |

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

|                       |                                    |
|-----------------------|------------------------------------|
| Recommended Use:      | For Further Manufacturing Use Only |
| Uses advised against: | Not for Human or Animal Drug Use   |

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

#### Supplier

##### **VWR International**

|                  |                                            |
|------------------|--------------------------------------------|
| Street           | 2360 Argentia Road                         |
| Postal code/City | Mississauga, Ontario<br>Canada L5N 5Z7     |
| Telephone        | +1-800-932-5000 toll-free within US/Canada |
| Telefax:         | +1-610-728-2103                            |

### Emergency phone number

|           |                                                            |
|-----------|------------------------------------------------------------|
| Telephone | +1-613-996-6666 (Canutec, 24 hrs/day, 7 days/week, Canada) |
|-----------|------------------------------------------------------------|

### Preparation Information

VWR International - Product Information Compliance

E-mail sds@vwr.com

## SECTION 2: Hazard identification

### 2.1 Classification of the substance or mixture

#### Classification according to Hazardous Products Regulation (SOR/2015-17)

This substance is classified as not hazardous according to Hazardous Products Regulation (SOR/2015-17)

## 2.2 Label elements

### Labelling in accordance with (SOR/2015-17)

According to Hazardous Products Regulation (SOR/2015-17) the product does not have to be labelled.

#### Hazards not otherwise classified (HNOC)

Not regulated

## SECTION 3: Composition / information on ingredients

### 3.1 Substances

|                   |                                                    |
|-------------------|----------------------------------------------------|
| Substance name    | Toluidine blue O                                   |
| Molecular formula | C <sub>15</sub> H <sub>16</sub> N <sub>3</sub> SCl |
| Molecular weight  | 305.83 g/mol                                       |
| CAS No.           | 92-31-9                                            |

## SECTION 4: First aid measures

### 4.1 General information

When in doubt or if symptoms are observed, get medical advice. If unconscious place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps. Change contaminated, saturated clothing. Do not leave affected person unattended.

#### In case of inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician.

#### In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. In case of skin reactions, consult a physician.

#### After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye. Remove contact lenses, if present and easy to do. Continue rinsing.

#### In case of ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting. Give nothing to eat or drink.

### 4.2 Most important symptoms/effects, acute and delayed

no data available

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

no data available

### 4.4 Self-protection of the first aider

First aider: Pay attention to self-protection!

### 4.5 Information to physician

no data available

## SECTION 5: Fire fighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

The product itself does not burn.

Co-ordinate fire-fighting measures to the fire surroundings.

#### Extinguishing media which must not be used for safety reasons

no restriction

### 5.2 Specific hazards arising from the chemical

In case of fire may be liberated:

Carbon monoxide

Carbon dioxide (CO<sub>2</sub>)

Hydrogen chloride (HCl)

Nitrogen oxides (NO<sub>x</sub>)

Sulphur oxides

### 5.3 Advice for firefighters

DO NOT fight fire when fire reaches explosives.

Protective equipment and precautions for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

#### Additional information

Do not allow run-off from fire-fighting to enter drains or water courses.

Do not inhale explosion and combustion gases.

Use water spray/stream to protect personnel and to cool endangered containers.

In case of fire: Evacuate area.

## SECTION 6: Accidental release measures

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

Avoid dust formation.

### 6.2 Environmental precautions

Do not allow to enter into surface water or drains.

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

Spilled product must never be returned to the original container for recycling. Clean contaminated articles and floor according to the environmental legislation. Collect in closed and suitable containers for disposal.

### 6.4 Additional information

Clear spills immediately.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid:

Inhalation

Avoid contact with eyes and skin.

Use extractor hood (laboratory).

If handled uncovered, arrangements with local exhaust ventilation have to be used.

If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

Protect from moisture.

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

Recommended storage temperature: Store between 15 °C and 30 °C.

Keep container tightly closed and in a well-ventilated place.

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Does not contain substances above concentration limits fixing an occupational exposure limit.

### 8.2 Engineering controls

#### Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. If handled uncovered, arrangements with local exhaust ventilation have to be used.

#### Personal protection equipment (PPE)

Wear suitable protective clothing. When handling with chemical substances, protective clothing must be worn.

#### *Eye/face protection*

Eye glasses with side protection

#### *Skin protection*

Wear suitable gloves. When handling with chemical substances, protective gloves must be worn. In the case of wanting to use the gloves again, clean them before taking off and air them well. Check leak tightness/impermeability prior to use.

#### By short-term hand contact

|                                           |                      |
|-------------------------------------------|----------------------|
| Suitable material:                        | NBR (Nitrile rubber) |
| Thickness of the glove material:          | 0,12 mm              |
| Breakthrough time (maximum wearing time): | > 480 min            |

#### By long-term hand contact

|                                           |                      |
|-------------------------------------------|----------------------|
| Suitable material:                        | NBR (Nitrile rubber) |
| Thickness of the glove material:          | 0,38 mm              |
| Breakthrough time (maximum wearing time): | > 480 min            |

#### *Respiratory protection*

Usually no personal respirative protection necessary.

#### Additional information

Wash hands before breaks and after work. Avoid contact with eyes and skin. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

#### Environmental exposure controls

no data available

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                      |                   |
|----------------------|-------------------|
| (a) Appearance       |                   |
| Physical state:      | solid             |
| Color:               | black             |
| (b) Odour:           | no data available |
| (c) Odour threshold: | no data available |

#### Safety relevant basic data

|                                              |                               |
|----------------------------------------------|-------------------------------|
| (d) pH:                                      | 2.8 (H <sub>2</sub> O; 25 °C) |
| (e) Melting point/freezing point:            | no data available             |
| (f) Initial boiling point and boiling range: | no data available             |
| (g) Flash point:                             | no data available             |
| (h) Evaporation rate:                        | no data available             |
| (i) Flammability (solid, gas):               | not applicable                |
| (j) Flammability or explosive limits         |                               |
| Lower explosion limit:                       | no data available             |
| Upper explosion limit:                       | no data available             |
| (k) Vapour pressure:                         | no data available             |
| (l) Vapour density:                          | no data available             |
| (m) Relative density:                        | no data available             |
| (n) Solubility(ies)                          |                               |
| Water solubility (g/L):                      | 30 g/l (25 °C)                |
| Soluble (g/L) in Ethanol:                    | no data available             |
| (o) Partition coefficient: n-octanol/water:  | no data available             |
| (p) Auto-ignition temperature:               | no data available             |
| (q) Decomposition temperature:               | no data available             |
| (r) Viscosity                                |                               |
| Kinematic viscosity:                         | no data available             |
| Dynamic viscosity:                           | no data available             |
| (s) Explosive properties:                    | not applicable                |
| (t) Oxidising properties:                    | not applicable                |

### 9.2 Other information

|                        |                   |
|------------------------|-------------------|
| Bulk density:          | no data available |
| Refraction index:      | no data available |
| Dissociation constant: | no data available |
| Surface tension:       | no data available |
| Henry's Law Constant:  | no data available |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

no data available

### 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

### 10.3 Possibility of hazardous reactions

no data available

### 10.4 Conditions to avoid

no data available

### 10.5 Incompatible materials

no data available

### 10.6 Hazardous decomposition products

no data available

### 10.7 Additional information

no data available

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute effects

*Acute oral toxicity:*

no data available

*Acute dermal toxicity:*

no data available

*Acute inhalation toxicity:*

no data available

#### Irritant and corrosive effects

*Primary irritation to the skin:*

not applicable

*Irritation to eyes:*

not applicable

*Irritation to respiratory tract:*

not applicable

**Respiratory or skin sensitization**

In case of skin contact: not sensitising

In case of inhalation: not sensitising

**STOT-single exposure**

not applicable

**STOT-repeated exposure**

not applicable

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

**Carcinogenicity**

The table below indicates whether each agency has listed any ingredient as a carcinogen.

| no data available | ACGIH | IARC | NTP | OSHA |
|-------------------|-------|------|-----|------|
|                   |       |      |     |      |

**Germ cell mutagenicity**

No indications of human germ cell mutagenicity exist.

**Reproductive toxicity**

No indications of human reproductive toxicity exist.

**Aspiration hazard**

not applicable

**Other adverse effects**

no data available

**Additional information**

no data available

## SECTION 12: Ecological information

### 12.1 Ecotoxicity

**Fish toxicity:**

no data available

**Daphnia toxicity:**

no data available

**Algae toxicity:**

no data available

**Bacteria toxicity:**

no data available

## 12.2 Persistence and degradability

no data available

## 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water: no data available

## 12.4 Mobility in soil:

no data available

## 12.5 Results of PBT/vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

## 12.6 Other adverse effects

no data available

# SECTION 13: Disposal considerations

## 13.1 Waste treatment methods

### Appropriate disposal / Product

Dispose according to legislation. Consult the appropriate local waste disposal expert about waste disposal.

Waste code product: no data available

### Appropriate disposal / Package

Dispose according to legislation. Handle contaminated packages in the same way as the substance itself.

### Additional information

no data available

# SECTION 14: Transport information

## Land transport (TDG)

No dangerous good in sense of this transport regulation.

## Sea transport (IMDG)

No dangerous good in sense of this transport regulation.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code  
not relevant

## Air transport (ICAO-TI / IATA-DGR)

No dangerous good in sense of this transport regulation.

## SECTION 15: Regulatory information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

Domestic Substance List:

## SECTION 16: Other information

### Abbreviations and acronyms

ACGIH - American Conference of Governmental Industrial Hygienists  
DOT - Department of Transportation  
IARC - International Agency for Research on Cancer  
IATA-DGR - International Air Transport Association-Dangerous Goods Regulations  
ICAO-TI - International Civil Aviation Organization-Technical Instructions  
IMDG - International Maritime Code for Dangerous Goods  
LTV - Long Term Value  
NIOSH - National Institute for Occupational Safety and Health  
NTP - National Toxicology Program  
OSHA - Occupational Safety & Health Administration  
PBT - Persistent, Bioaccumulative and Toxic  
PEL - Permissible Exposure Limit  
STV - Short Term Value  
SVHC - Substances of Very High Concern  
TDG - Transport of Dangerous Goods  
TLV - Threshold Limit Value  
vPvB - very Persistent, very Bioaccumulative

### Additional information

Indication of changes:                      general update

*The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guidance. The information in this document is based on the present state knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. VWR International and his Affiliates shall not be held liable for any damage resulting from handling.*