

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product form : Mixture  
Name : May-Grünwald's stain for microscopy  
Trade name : May-Grünwald's stain for microscopy  
UFI : RX20-30S6-A00Q-A9Y3  
EC-No. : 241-409-6/200-515-2  
CAS-No. : 17372-87-1/61-73-4  
Product code : EOBL-M0D

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

Main use category : Laboratory use

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

labbox labware s.l.  
Migjorn, 1  
P.O. Box Barcelona (SPAIN)  
08338 Premia de Dalt, SPAIN  
ES  
T +34 937 07 79 70, F +34 937 909 532  
[info@labbox.com](mailto:info@labbox.com), [www.labbox.com](http://www.labbox.com)

**1.4. Emergency telephone number**

Emergency number : +34 937 077 970 (For technical information\_Office Hours) In case of medical emergency phone 112 or to your local emergency number.

| Country/Area   | Organisation/Company  | Address                    | Emergency number | Comment |
|----------------|---|----------------------------|------------------|---------|
| United Kingdom | National Poisons Information Service<br>(Belfast Centre)<br>Royal Victoria Hospital | Grosvenor Road<br>BT12 6BA | 0344 892 0111    |         |

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Acute toxicity (oral), Category 4 H302  
Serious eye damage/eye irritation, Category 2 H319  
Full text of H and EUH statements: see section 16

**Adverse physicochemical, human health and environmental effects**

No additional information available

**2.2. Label elements****Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard pictograms (CLP) :



GHS07

Signal word (CLP)

: Warning

# May-Grünwald's stain for microscopy

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

|                                |   |
|--------------------------------|---|
| Hazard statements (CLP)        | : H302 - Harmful if swallowed.<br>H319 - Causes serious eye irritation.   |
| Precautionary statements (CLP) | : P280 - Wear protective gloves/protective clothing/eye protection/face protection.<br>P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.<br>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P337+P313 - If eye irritation persists: Get medical advice/attention. |

### 2.3. Other hazards

PBT: not relevant – no registration required

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

| Name   | Product identifier                       | %         | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|--|-----------|---|
| methylene blue   | CAS-No.: 61-73-4<br>EC-No.: 200-515-2    | >50 - <70 | Acute Tox. 4 (Oral), H302                                       |
| disodium 2-(2,4,5,7-tetrabromo-6-oxido-3-oxoxanthen-9-yl) benzoate | CAS-No.: 17372-87-1<br>EC-No.: 241-409-6 | >50 - <70 | Eye Irrit. 2, H319  |

Full text of H and EUH statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |  |
|---------------------------------------|--|
| First-aid measures general            | : Get medical advice/attention if you feel unwell.   |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice.              |
| First-aid measures after skin contact | : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation occurs: Get medical advice/attention. |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention if you feel unwell.    |
| First-aid measures after ingestion    | : Rinse mouth. Do NOT induce vomiting. Call a physician immediately.   |

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

|                                     |  |
|-------------------------------------|--|
| Symptoms/effects after inhalation   | : Harmful if inhaled.  |
| Symptoms/effects after skin contact | : May be harmful in contact with skin.   |
| Symptoms/effects after eye contact  | : Causes serious eye irritation.   |
| Symptoms/effects after ingestion    | : Swallowing a small quantity of this material will result in serious health hazard. |

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

Never give anything by mouth to an unconscious person.

# May-Grünwald's stain for microscopy

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Carbon dioxide. Foam. Dry powder.

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

Hazardous decomposition products in case of fire : fume.

#### 5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire.  
Protection during firefighting : 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

##### For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

##### For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

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

Methods for cleaning up : On land, sweep or shovel into suitable containers.

#### 6.4. Reference to other sections

See Heading 8. For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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

Storage conditions : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store in a well-ventilated place. Keep container tightly closed.

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

Laboratory chemicals.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

##### Personal protection equipment

##### Personal protective equipment:

Avoid all unnecessary exposure. EN 374.

# May-Grünwald's stain for microscopy

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### Personal protective equipment symbol(s):



### Eye and face protection

#### Eye protection:

Chemical goggles or safety glasses

### Skin protection

#### Skin and body protection:

Wear suitable protective clothing

#### Hand protection:

protective gloves

| Hand protection |                      |                   |                |             |            |
|-----------------|----------------------|-------------------|----------------|-------------|------------|
| Type            | Material             | Permeation        | Thickness (mm) | Penetration | Standard   |
|                 | Nitrile rubber (NBR) | 6 (> 480 minutes) | 0.11 mm        |             | EN ISO 374 |

#### Other skin protection

#### Materials for protective clothing:

Wear safety footwear

### Respiratory protection

#### Respiratory protection:

Wear appropriate mask

| Respiratory protection |             |           |          |
|------------------------|-------------|-----------|----------|
| Device                 | Filter type | Condition | Standard |
|                        | Type P1     |           |          |

### Environmental exposure controls

#### Other information:

Do not eat, drink or smoke when using this product.

## SECTION 9: Physical and chemical properties

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

|                           |                  |
|---------------------------|------------------|
| Physical state            | : Solid          |
| Colour                    | : Blue. Green.   |
| Appearance                | : Powder.        |
| Odour                     | : alcohol.       |
| Odour threshold           | : Not available  |
| Melting point             | : 0 °C           |
| Freezing point            | : Not available  |
| Boiling point             | : Not available  |
| Flammability              | : Not available  |
| Lower explosion limit     | : Not applicable |
| Upper explosion limit     | : Not applicable |
| Flash point               | : Not applicable |
| Auto-ignition temperature | : Not applicable |
| Decomposition temperature | : Not available  |
| pH                        | : Not available  |
| pH solution               | : Not available  |
| Viscosity, kinematic      | : Not applicable |

# May-Grünwald's stain for microscopy

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

|   |                            |
|---|----------------------------|
| Solubility                                      | : Poorly soluble in water. |
| Partition coefficient n-octanol/water (Log Kow) | : Not available            |
| Vapour pressure                                 | : Not available            |
| Vapour pressure at 50 °C                        | : Not available            |
| Density   | : Not available            |
| Relative density                                | : Not available            |
| Relative vapour density at 20 °C                | : Not applicable           |
| Particle size                                   | : Not available            |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under normal conditions of use.

### 10.3. Possibility of hazardous reactions

Oxidizing materials. alkaline medium.

### 10.4. Conditions to avoid

No additional information available

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

No additional information available

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

|                             |                         |
|-----------------------------|-------------------------|
| Acute toxicity (oral)       | : Harmful if swallowed. |
| Acute toxicity (dermal)     | : Not classified        |
| Acute toxicity (inhalation) | : Not classified        |

#### May-Grünwald's stain for microscopy (17372-87-1/61-73-4)

|                                   |                                  |
|-----------------------------------|----------------------------------|
| LD50 oral rat                     | 2000 mg/kg                       |
| Skin corrosion/irritation         | : Not classified                 |
| Serious eye damage/irritation     | : Causes serious eye irritation. |
| Respiratory or skin sensitisation | : Not classified                 |
| Germ cell mutagenicity            | : Not classified                 |
| Carcinogenicity                   | : Not classified                 |
| Reproductive toxicity             | : Not classified                 |
| STOT-single exposure              | : Not classified                 |
| STOT-repeated exposure            | : Not classified                 |
| Aspiration hazard                 | : Not classified                 |

### 11.2. Information on other hazards

#### Endocrine disrupting properties

|  |                  |
|--|------------------|
| Adverse health effects caused by endocrine disrupting properties | : Not applicable |
|--|------------------|

# May-Grünwald's stain for microscopy

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### Other information

Potential adverse human health effects and symptoms : Harmful if swallowed, Irritation: severely irritant to eyes

## SECTION 12: Ecological information

### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified  
Hazardous to the aquatic environment, long-term (chronic) : Not classified

#### disodium 2-(2,4,5,7-tetrabromo-6-oxido-3-oxoxanthen-9-yl) benzoate (17372-87-1)

|                 |            |
|-----------------|------------|
| LC50 - Fish [1] | 2344 mg/kg |
|-----------------|------------|

### 12.2. Persistence and degradability

#### May-Grünwald's stain for microscopy (17372-87-1/61-73-4)

|                               |                    |
|-------------------------------|--------------------|
| Persistence and degradability | Rapidly degradable |
|-------------------------------|--------------------|

#### methylene blue (61-73-4)

|                               |                    |
|-------------------------------|--------------------|
| Persistence and degradability | Rapidly degradable |
|-------------------------------|--------------------|

#### disodium 2-(2,4,5,7-tetrabromo-6-oxido-3-oxoxanthen-9-yl) benzoate (17372-87-1)

|                               |                    |
|-------------------------------|--------------------|
| Persistence and degradability | Rapidly degradable |
|-------------------------------|--------------------|

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

#### May-Grünwald's stain for microscopy (17372-87-1/61-73-4)

PBT: not relevant – no registration required

### 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : Not applicable.

### 12.7. Other adverse effects

Other adverse effects : Do not discharge into drains or rivers.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.  
Waste treatment methods : Must follow special treatment according to local regulation.

# May-Grünwald's stain for microscopy

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

#### 14.1. UN number or ID number

Not regulated for transport

#### 14.2. UN proper shipping name

|                             |                 |
|-----------------------------|-----------------|
| Proper Shipping Name (ADR)  | : Not regulated |
| Proper Shipping Name (IMDG) | : Not regulated |
| Proper Shipping Name (IATA) | : Not regulated |
| Proper Shipping Name (ADN)  | : Not regulated |
| Proper Shipping Name (RID)  | : Not regulated |

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

**ADR**  
Transport hazard class(es) (ADR) : Not regulated

**IMDG**  
Transport hazard class(es) (IMDG) : Not regulated

**IATA**  
Transport hazard class(es) (IATA) : Not regulated

**ADN**  
Transport hazard class(es) (ADN) : Not regulated

**RID**  
Transport hazard class(es) (RID) : Not regulated

#### 14.4. Packing group

|                      |                 |
|----------------------|-----------------|
| Packing group (ADR)  | : Not regulated |
| Packing group (IMDG) | : Not regulated |
| Packing group (IATA) | : Not regulated |
| Packing group (ADN)  | : Not regulated |
| Packing group (RID)  | : Not regulated |

#### 14.5. Environmental hazards

Other information : No supplementary information available

#### 14.6. Special precautions for user

**Overland transport**  
Not regulated

**Transport by sea**  
Not regulated

**Air transport**  
Not regulated

**Inland waterway transport**  
Not regulated

**Rail transport**  
Not regulated

#### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

# May-Grünwald's stain for microscopy

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### SECTION 15: Regulatory information

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

##### EU-Regulations

###### REACH Annex XVII (Restriction List)

Contains no REACH substances with Annex XVII restrictions

###### REACH Annex XIV (Authorisation List)

Contains no REACH Annex XIV substances

###### REACH Candidate List (SVHC)

Contains no substance on the REACH candidate list

###### PIC Regulation (Prior Informed Consent)

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

###### POP Regulation (Persistent Organic Pollutants)

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

###### Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

###### Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

###### Explosives Precursors Regulation (2019/1148)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

###### Drug Precursors Regulation (273/2004)

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

##### National regulations

###### Germany

|  |   |
|--|---|
| Water hazard class (WGK)                   | : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1). |
| Hazardous Incident Ordinance (12. BImSchV) | : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)              |

###### Netherlands

|   |                                     |
|---|-------------------------------------|
| SZW-lijst van kankerverwekkende stoffen   | : None of the components are listed |
| SZW-lijst van mutagene stoffen  | : None of the components are listed |
| NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding   | : None of the components are listed |
| NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid | : None of the components are listed |
| NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling   | : None of the components are listed |

###### Denmark

|                             |   |
|-----------------------------|---|
| Danish National Regulations | : Young people below the age of 18 years are not allowed to use the product |
|-----------------------------|---|

#### 15.2. Chemical safety assessment

No additional information available



# May-Grünwald's stain for microscopy

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### SECTION 16: Other information

#### Full text of H- and EUH-statements:

|                     |   |
|---------------------|---|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4             |
| Eye Irrit. 2        | Serious eye damage/eye irritation, Category 2 |
| H302                | Harmful if swallowed.                         |
| H319                | Causes serious eye irritation.                |

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.