








# FLYLEAF

## Article: 8275 Elastica van Gieson staining kit for microscopy

Date of compilation: 25.10.2021

### 1 Composition/information on ingredients

#### Bill of materials

| Name of substance                                | Identifier          | Number of pieces | Classification acc. to GHS   | Pictograms   | Page    |
|--|---------------------|------------------|--|--|---------|
| Hematoxylin solution A acc. to Weigert           | Article number X906 | 1                | Flam. Liq. 2 / H225<br>Eye Irrit. 2 / H319<br>STOT SE 3 / H336   |    | 5 - 24  |
| Hematoxylin solution B acc. to Weigert           | Article number X907 | 1                | Met. Corr. 1 / H290<br>Eye Dam. 1 / H318   |   | 25 - 43 |
| Van Gieson's Solution                            | Article number 3925 | 1                |  |  | 44 - 58 |
| Resorcinol-Fuchsin solution according to Weigert | Article number X877 | 1                | Flam. Liq. 2 / H225<br>Met. Corr. 1 / H290<br>Acute Tox. 4 / H302<br>Acute Tox. 4 / H312<br>Acute Tox. 4 / H332<br>Eye Dam. 1 / H318<br>STOT SE 1 / H370<br>STOT SE 3 / H336 |  <br>  | 59 - 84 |

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## Elastica van Gieson staining kit

### 2 Hazards identification

#### 2.1 Label elements

**Signal word** Danger

**Labelling according to Regulation (EC) No 1272/2008 (CLP)**

**Pictograms**

Danger.



**Hazard statement(s)**

|                |  |
|----------------|--|
| H225           | Highly flammable liquid and vapour                       |
| H290           | May be corrosive to metals                               |
| H302+H312+H332 | Harmful if swallowed, in contact with skin or if inhaled |
| H318           | Causes serious eye damage                                |
| H336           | May cause drowsiness or dizziness                        |
| H370           | Causes damage to organs (eye) (if swallowed)             |

**Precautionary statements**

**Precautionary statements - prevention**

|      |  |
|------|--|
| P210 | Keep away from heat, sparks, open flames, hot surfaces. No smoking |
| P280 | Wear protective gloves/eye protection                              |

**Precautionary statements - response**

|                |   |
|----------------|---|
| P302+P352      | IF ON SKIN: Wash with plenty of water   |
| P304+P340      | IF INHALED: Remove person to fresh air and keep comfortable for breathing   |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing |
| P308+P311      | IF exposed or concerned: Call a POISON CENTER/doctor  |

**Hazardous ingredients for labelling:**

2-Propanol,  
Iron(III) chloride hexahydrate,  
Hydrochloric acid .... %,  
Picric acid,  
Iron(III) chloride,  
Resorcinol,  
Methanol,

### 3 Transport information

#### 3.1 UN number or ID number



|             |         |
|-------------|---------|
| ADR/RID/ADN | UN 2924 |
| IMDG-Code   | UN 2924 |
| ICAO-TI     | UN 2924 |

#### 3.2 UN proper shipping name



|             |                                     |
|-------------|-------------------------------------|
| ADR/RID/ADN | FLAMMABLE LIQUID, CORROSIVE, N.O.S. |
| IMDG-Code   | FLAMMABLE LIQUID, CORROSIVE, N.O.S. |
| ICAO-TI     | Flammable liquid, corrosive, n.o.s. |

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|            |   |  |
|------------|---|--|
|            | Technical name  | 2-Propanol, Iron(III) chloride   |
| <b>3.3</b> | <b>Transport hazard class(es)</b>   |  |
|            | ADR/RID/ADN   | 3 (8)  |
|            | IMDG-Code   | 3 (8)  |
|            | ICAO-TI   | 3 (8)  |
| <b>3.4</b> | <b>Packing group</b>  |  |
|            | ADR/RID/ADN   | II   |
|            | IMDG-Code   | II   |
|            | ICAO-TI   | II   |
| <b>3.5</b> | <b>Environmental hazards</b>  | non-environmentally hazardous acc. to the dangerous goods regulations                                |
| <b>3.6</b> | <b>Special precautions for user</b>   |  |
|            | Provisions for dangerous goods (ADR) should be complied within the premises.  |  |
| <b>3.7</b> | <b>Maritime transport in bulk according to IMO instruments</b>  |  |
|            | The cargo is not intended to be carried in bulk.  |  |
| <b>3.8</b> | <b>Information for each of the UN Model Regulations</b>   |  |
|            | <b>Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional information</b>  |  |
|            | Proper shipping name  | FLAMMABLE LIQUID, CORROSIVE, N.O.S.  |
|            | Particulars in the transport document   | UN2924, FLAMMABLE LIQUID, CORROSIVE, N.O.S., (2-Propanol, Iron(III) chloride), 3 (8), II, (D/E)      |
|            | Classification code   | FC   |
|            | Special provisions (SP)   | 274  |
|            | Excepted quantities (EQ)  | E2   |
|            | Limited quantities (LQ)   | 1 L  |
|            | Transport category (TC)   | 2  |
|            | Tunnel restriction code (TRC)   | D/E  |
|            | Hazard identification No  | 338  |
|            | <b>International Maritime Dangerous Goods Code (IMDG) - Additional information</b>  |  |
|            | Proper shipping name  | FLAMMABLE LIQUID, CORROSIVE, N.O.S.  |
|            | Particulars in the shipper's declaration  | UN2924, FLAMMABLE LIQUID, CORROSIVE, N.O.S., (2-Propanol, Iron(III) chloride), 3 (8), II, <23°C c.c. |
|            | Marine pollutant  | -  |
|            | Danger label(s)   | 3+8  |
|            |   |  |
|            | Special provisions (SP)   | 274  |
|            | Excepted quantities (EQ)  | E2   |
|            | Limited quantities (LQ)   | 1 L  |
|            | EmS   | F-E, S-C   |

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|   |  |
|---|--|
| Stowage category  | B  |
| <b>International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information</b>   |  |
| Proper shipping name  | Flammable liquid, corrosive, n.o.s.  |
| Particulars in the shipper's declaration  | UN2924, Flammable liquid, corrosive, n.o.s., (2-Propanol, Iron(III) chloride), 3 (8), II |
| Danger label(s)   | 3+8  |
|   |  |
| Special provisions (SP)   | A3   |
| Excepted quantities (EQ)  | E2   |
| Limited quantities (LQ)   | 0,5 L  |

# Safety data sheet

according to Regulation (EC) No. 1907/2006 (REACH)



## Hematoxylin solution A acc. to Weigert for microscopy

article number: **X906**  
Version: **3.0 en**  
Replaces version of: 16.07.2019  
Version: (2)

date of compilation: 24.07.2015  
Revision: 14.10.2021

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

### 1.1 Product identifier

|                                 |  |
|---------------------------------|--|
| Identification of the substance | <b>Hematoxylin solution A acc. to Weigert</b> for microscopy |
| Article number                  | X906   |
| Registration number (REACH)     | not relevant (mixture)                                       |

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

|                           |   |
|---------------------------|---|
| Relevant identified uses: | Laboratory chemical<br>Laboratory and analytical use  |
| Uses advised against:     | Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household). |

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

Carl Roth GmbH + Co KG  
Schoemperlenstr. 3-5  
D-76185 Karlsruhe  
Germany

**Telephone:**+49 (0) 721 - 56 06 0  
**Telefax:** +49 (0) 721 - 56 06 149  
**e-mail:** sicherheit@carlroth.de  
**Website:** www.carlroth.de

Competent person responsible for the safety data sheet: :Department Health, Safety and Environment

**e-mail (competent person):** **sicherheit@carlroth.de**

### 1.4 Emergency telephone number

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

| Section | Hazard class  | Cat-egory | Hazard class and category | Hazard statement |
|---------|---|-----------|---------------------------|------------------|
| 2.6     | Flammable liquid  | 2         | Flam. Liq. 2              | H225             |
| 3.3     | Serious eye damage/eye irritation   | 2         | Eye Irrit. 2              | H319             |
| 3.8D    | Specific target organ toxicity - single exposure (narcotic effects, drowsiness) | 3         | STOT SE 3                 | H336             |

For full text of abbreviations: see SECTION 16

#### The most important adverse physicochemical, human health and environmental effects

The product is combustible and can be ignited by potential ignition sources.

### 2.2 Label elements

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### Labelling according to Regulation (EC) No 1272/2008 (CLP)

**Signal word**                      **Danger**

#### Pictograms

GHS02, GHS07



#### Hazard statements

H225                      Highly flammable liquid and vapour  
H319                      Causes serious eye irritation  
H336                      May cause drowsiness or dizziness

#### Precautionary statements

##### **Precautionary statements - prevention**

P210                      Keep away from heat. No smoking

##### **Precautionary statements - response**

P304+P340              IF INHALED: Remove person to fresh air and keep comfortable for breathing  
P305+P351+P338      IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P312                      Call a POISON CENTRE/doctor if you feel unwell

**Hazardous ingredients for labelling:**                      2-Propanol

#### **Labelling of packages where the contents do not exceed 125 ml**

Signal word: **Danger**

Symbol(s)



contains:                      2-Propanol

## 2.3 Other hazards

### **Results of PBT and vPvB assessment**

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

## **SECTION 3: Composition/information on ingredients**

### 3.1 Substances

not relevant (mixture)

### 3.2 Mixtures

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### Description of the mixture

| Name of substance | Identifier  | Wt%  | Classification acc. to GHS                                     | Pictograms  | Notes  |
|-------------------|---|------|--|---|--------|
| 2-Propanol        | CAS No<br>67-63-0<br><br>EC No<br>200-661-7<br><br>Index No<br>603-117-00-0<br><br>REACH Reg. No<br>01-2119457558-<br>25-xxxx | < 50 | Flam. Liq. 2 / H225<br>Eye Irrit. 2 / H319<br>STOT SE 3 / H336 |   | GHS-HC |
| Hematoxylin       | CAS No<br>517-28-2<br><br>EC No<br>208-237-3<br><br>REACH Reg. No<br>01-2120804644-<br>58-xxxx                                | < 5  | Eye Irrit. 2 / H319  |    |        |

#### Notes

GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/2008/EC, Annex VI)

For full text of abbreviations: see SECTION 16

## SECTION 4: First aid measures

### 4.1 Description of first aid measures



#### General notes

Take off contaminated clothing.

#### Following inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

#### Following skin contact

Rinse skin with water/shower. In all cases of doubt, or when symptoms persist, seek medical advice.

#### Following eye contact

Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. In case of eye irritation consult an ophthalmologist.

#### Following ingestion

Rinse mouth. Call a doctor if you feel unwell.

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

Irritation, Vomiting, Dizziness, Drowsiness, Narcosis

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

none

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media



##### Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings  
water spray, alcohol resistant foam, dry extinguishing powder, BC-powder, carbon dioxide (CO<sub>2</sub>)

##### Unsuitable extinguishing media

water jet

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

Combustible. Vapours may form explosive mixtures with air. Places which are not ventilated, e.g. un-ventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

##### Hazardous combustion products

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

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

### SECTION 6: Accidental release measures

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



##### For non-emergency personnel

Do not breathe vapour/spray. Avoid contact with skin and eyes. Avoidance of ignition sources.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Danger of explosion.

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

##### Advice on how to contain a spill

Covering of drains.

##### Advice on how to clean up a spill

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

##### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.



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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Provision of sufficient ventilation.

#### Measures to prevent fire as well as aerosol and dust generation



Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharge. Due to danger of explosion, prevent leakage

of vapours into cellars, flues and ditches.

#### Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs. When using do not smoke.

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

Keep container tightly closed in a cool place.

#### Incompatible substances or mixtures

Observe hints for combined storage.

#### Consideration of other advice:

Not required.

#### Ventilation requirements

Use local and general ventilation.

#### Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

#### 7.3 Specific end use(s)

No information available.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### National limit values

##### Occupational exposure limit values (Workplace Exposure Limits)

This information is not available.

| Relevant DNELs of components of the mixture |         |           |                       |                                    |                   |                            |
|---|---------|-----------|-----------------------|------------------------------------|-------------------|----------------------------|
| Name of substance                           | CAS No  | End-point | Threshold level       | Protection goal, route of exposure | Used in           | Exposure time              |
| 2-Propanol                                  | 67-63-0 | DNEL      | 500 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | chronic - systemic effects |

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| Relevant DNELs of components of the mixture |         |           |                  |                                    |                   |                            |
|---|---------|-----------|------------------|------------------------------------|-------------------|----------------------------|
| Name of substance                           | CAS No  | End-point | Threshold level  | Protection goal, route of exposure | Used in           | Exposure time              |
| 2-Propanol                                  | 67-63-0 | DNEL      | 888 mg/kg bw/day | human, dermal                      | worker (industry) | chronic - systemic effects |

| Relevant PNECs of components of the mixture |         |           |                 |                       |                              |                              |
|---|---------|-----------|-----------------|-----------------------|------------------------------|------------------------------|
| Name of substance                           | CAS No  | End-point | Threshold level | Organism              | Environmental compartment    | Exposure time                |
| 2-Propanol                                  | 67-63-0 | PNEC      | 140,9 mg/l      | aquatic organisms     | freshwater                   | short-term (single instance) |
| 2-Propanol                                  | 67-63-0 | PNEC      | 140,9 mg/l      | aquatic organisms     | marine water                 | short-term (single instance) |
| 2-Propanol                                  | 67-63-0 | PNEC      | 2.251 mg/l      | aquatic organisms     | sewage treatment plant (STP) | short-term (single instance) |
| 2-Propanol                                  | 67-63-0 | PNEC      | 552 mg/kg       | aquatic organisms     | freshwater sediment          | short-term (single instance) |
| 2-Propanol                                  | 67-63-0 | PNEC      | 552 mg/kg       | aquatic organisms     | marine sediment              | short-term (single instance) |
| 2-Propanol                                  | 67-63-0 | PNEC      | 28 mg/kg        | terrestrial organisms | soil                         | short-term (single instance) |

## 8.2 Exposure controls

### Individual protection measures (personal protective equipment)

#### Eye/face protection



Use safety goggles with side protection.

#### Skin protection



#### • hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

#### • type of material

NBR (Nitrile rubber)

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- **material thickness**

0,3 mm

- **breakthrough times of the glove material**

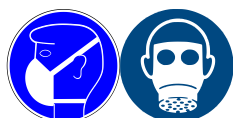
>480 minutes (permeation: level 6)

- **other protection measures**

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Flame-retardant protective clothing.

### Respiratory protection



Respiratory protection necessary at: Aerosol or mist formation. Type: A (against organic gases and vapours with a boiling point of > 65 °C , colour code: Brown).

### Environmental exposure controls

Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|  |  |
|--|--|
| Physical state   | liquid   |
| Colour   | red violet                                       |
| Odour  | characteristic                                   |
| Melting point/freezing point                             | not determined                                   |
| Boiling point or initial boiling point and boiling range | >85 °C at 1.013 hPa                              |
| Flammability   | flammable liquid in accordance with GHS criteria |
| Lower and upper explosion limit                          | not determined                                   |
| Flash point  | >12 °C   |
| Auto-ignition temperature                                | >425 °C  |
| Decomposition temperature                                | not relevant                                     |
| pH (value)   | ~ 7 (20 °C)                                      |
| Kinematic viscosity                                      | not determined                                   |
| <u>Solubility(ies)</u>                                   |  |
| Water solubility   | miscible in any proportion                       |
| <u>Partition coefficient</u>                             |  |
| Partition coefficient n-octanol/water (log value):       | this information is not available                |
| Vapour pressure  | not determined                                   |

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|                                |   |
|--------------------------------|---|
| Density                        | ~ 0,9 g/cm <sup>3</sup> at 20 °C              |
| Relative vapour density        | information on this property is not available |
| Particle characteristics       | not relevant (liquid)                         |
| <u>Other safety parameters</u> |   |
| Oxidising properties           | none  |

### 9.2 Other information

Information with regard to physical hazard classes:

Flammable liquids

Sustained combustibility

yes, sustained combustion was observed

Other safety characteristics:

Miscibility

completely miscible with water

Temperature class (EU, acc. to ATEX)

T2  
Maximum permissible surface temperature on the equipment: 300°C

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The mixture contains reactive substance(s). Risk of ignition. Vapours may form explosive mixtures with air.

#### If heated

Risk of ignition.

### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### 10.3 Possibility of hazardous reactions

**Exothermic reaction with:** Aluminium, Aldehydes, Amines, Nitric acid, strong oxidiser, Perchlorates, Hydrogen peroxide,  
=> Explosive properties

### 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### 10.5 Incompatible materials

plastic and rubber

### 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

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### SECTION 11: Toxicological information

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

Test data are not available for the complete mixture.

##### Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

##### Classification according to GHS (1272/2008/EC, CLP)

##### Acute toxicity

Shall not be classified as acutely toxic.

| Acute toxicity of components of the mixture |          |                    |          |              |         |
|---|----------|--------------------|----------|--------------|---------|
| Name of substance                           | CAS No   | Exposure route     | Endpoint | Value        | Species |
| 2-Propanol                                  | 67-63-0  | inhalation: vapour | LC50     | 37,5 mg/l/4h | rat     |
| 2-Propanol                                  | 67-63-0  | oral               | LD50     | 5.045 mg/kg  | rat     |
| 2-Propanol                                  | 67-63-0  | dermal             | LD50     | 12.800 mg/kg | rabbit  |
| Hematoxylin                                 | 517-28-2 | oral               | LD50     | ≥2.000 mg/kg | rat     |

##### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

##### Serious eye damage/eye irritation

Causes serious eye irritation.

##### Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

##### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

##### Carcinogenicity

Shall not be classified as carcinogenic.

##### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

##### Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

##### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

##### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

##### Symptoms related to the physical, chemical and toxicological characteristics

###### • If swallowed

vomiting

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- **If in eyes**

Causes serious eye irritation

- **If inhaled**

dizziness, fatigue, narcosis

- **If on skin**

Data are not available.

- **Other information**

none

### 11.2 Endocrine disrupting properties

None of the ingredients are listed.

### 11.3 Information on other hazards

There is no additional information.

## SECTION 12: Ecological information

### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

| Aquatic toxicity (acute) of components of the mixture |          |          |            |                       |               |
|---|----------|----------|------------|-----------------------|---------------|
| Name of substance                                     | CAS No   | Endpoint | Value      | Species               | Exposure time |
| 2-Propanol  | 67-63-0  | LC50     | 9.640 mg/l | Pimephales promelas   | 96 h          |
| Hematoxylin   | 517-28-2 | LC50     | >35 mg/l   | fish                  | 96 h          |
| Hematoxylin   | 517-28-2 | EC50     | 29,7 mg/l  | aquatic invertebrates | 48 h          |

| Aquatic toxicity (chronic) of components of the mixture |         |          |              |                       |               |
|---|---------|----------|--------------|-----------------------|---------------|
| Name of substance                                       | CAS No  | Endpoint | Value        | Species               | Exposure time |
| 2-Propanol  | 67-63-0 | LC50     | >10.000 mg/l | aquatic invertebrates | 24 h          |

### Biodegradation

Data are not available.

### 12.2 Process of degradability

| Degradability of components of the mixture |          |                  |                  |      |                                   |        |
|--|----------|------------------|------------------|------|-----------------------------------|--------|
| Name of substance                          | CAS No   | Process          | Degradation rate | Time | Method                            | Source |
| 2-Propanol                                 | 67-63-0  | biotic/abiotic   | 95 %             | 21 d | modifizierter OECD Screening Test |        |
| 2-Propanol                                 | 67-63-0  | oxygen depletion | 53 %             | 5 d  |                                   | ECHA   |
| Hematoxylin                                | 517-28-2 | DOC removal      | ≥10 – ≤20 %      | 28 d |                                   | ECHA   |

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### 12.3 Bioaccumulative potential

Data are not available.

| Bioaccumulative potential of components of the mixture |          |     |                              |          |
|--|----------|-----|------------------------------|----------|
| Name of substance                                      | CAS No   | BCF | Log KOW                      | BOD5/COD |
| 2-Propanol   | 67-63-0  |     | 0,05                         |          |
| Hematoxylin  | 517-28-2 |     | ≤0,3 (pH value: ~6,9, 30 °C) |          |

### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

Data are not available.

### 12.6 Endocrine disrupting properties

None of the ingredients are listed.

### 12.7 Other adverse effects

Data are not available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Sewage disposal-relevant information

Do not empty into drains.

#### Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used.

### 13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Waste catalogue ordinance (Germany).

### 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

## SECTION 14: Transport information

### 14.1 UN number or ID number

|             |         |
|-------------|---------|
| ADR/RID/ADN | UN 1219 |
| IMDG-Code   | UN 1219 |
| ICAO-TI     | UN 1219 |

### 14.2 UN proper shipping name

|             |             |
|-------------|-------------|
| ADR/RID/ADN | ISOPROPANOL |
|-------------|-------------|

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## Hematoxylin solution A acc. to Weigert for microscopy

article number: **X906**

---

|  |   |
|--|---|
| IMDG-Code  | ISOPROPANOL   |
| ICAO-TI  | Isopropanol   |
| <b>14.3 Transport hazard class(es)</b>   |   |
| ADR/RID/ADN  | 3   |
| IMDG-Code  | 3   |
| ICAO-TI  | 3   |
| <b>14.4 Packing group</b>  |   |
| ADR/RID/ADN  | II  |
| IMDG-Code  | II  |
| ICAO-TI  | II  |
| <b>14.5 Environmental hazards</b>  | non-environmentally hazardous acc. to the dangerous goods regulations |
| <b>14.6 Special precautions for user</b>   |   |
| Provisions for dangerous goods (ADR) should be complied within the premises.                                 |   |
| <b>14.7 Maritime transport in bulk according to IMO instruments</b>  |   |
| The cargo is not intended to be carried in bulk.   |   |
| <b>14.8 Information for each of the UN Model Regulations</b>   |   |
| <b>Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional information</b> |   |
| Proper shipping name   | ISOPROPANOL   |
| Particulars in the transport document  | UN1219, ISOPROPANOL, 3, II, (D/E)                                     |
| Classification code  | F1  |
| Danger label(s)  | 3   |
|                           |   |
| Special provisions (SP)  | 601   |
| Excepted quantities (EQ)   | E2  |
| Limited quantities (LQ)  | 1 L   |
| Transport category (TC)  | 2   |
| Tunnel restriction code (TRC)  | D/E   |
| Hazard identification No   | 33  |
| <b>International Maritime Dangerous Goods Code (IMDG) - Additional information</b>                           |   |
| Proper shipping name   | ISOPROPANOL   |
| Particulars in the shipper's declaration   | UN1219, ISOPROPANOL, 3, II, >12°C c.c.                                |
| Marine pollutant   | -   |
| Danger label(s)  | 3   |



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|                          |          |
|--------------------------|----------|
| Special provisions (SP)  | -        |
| Excepted quantities (EQ) | E2       |
| Limited quantities (LQ)  | 1 L      |
| EmS                      | F-E, S-D |
| Stowage category         | B        |

### International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

|  |                            |
|--|----------------------------|
| Proper shipping name                     | Isopropanol                |
| Particulars in the shipper's declaration | UN1219, Isopropanol, 3, II |
| Danger label(s)                          | 3                          |



|                          |      |
|--------------------------|------|
| Special provisions (SP)  | A180 |
| Excepted quantities (EQ) | E2   |
| Limited quantities (LQ)  | 1 L  |

## SECTION 15: Regulatory information

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

#### Relevant provisions of the European Union (EU)

#### Restrictions according to REACH, Annex XVII

| Dangerous substances with restrictions (REACH, Annex XVII) |  |        |             |    |
|--|--|--------|-------------|----|
| Name of substance  | Name acc. to inventory   | CAS No | Restriction | No |
| Hematoxylin solution A acc. to Weigert                     | this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC |        | R3          | 3  |
| Hematoxylin  | substances in tattoo inks and permanent make-up  |        | R75         | 75 |
| 2-Propanol   | flammable / pyrophoric   |        | R40         | 40 |
| 2-Propanol   | substances in tattoo inks and permanent make-up  |        | R75         | 75 |

#### Legend

- R3
1. Shall not be used in:
    - ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
    - tricks and jokes,
    - games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
  2. Articles not complying with paragraph 1 shall not be placed on the market.
  3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:
    - can be used as fuel in decorative oil lamps for supply to the general public, and
    - present an aspiration hazard and are labelled with H304.
  4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).
  5. Without prejudice to the implementation of other Union provisions relating to the classification, labelling and packaging of substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:

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---

### Legend

- (a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil – or even sucking the wick of lamps – may lead to life-threatening lung damage";
- (b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter fluid may lead to life threatening lung damage';
- (c) lamps oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.;
- R40
1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:
    - metallic glitter intended mainly for decoration,
    - artificial snow and frost,
    - 'whoopee' cushions,
    - silly string aerosols,
    - imitation excrement,
    - horns for parties,
    - decorative flakes and foams,
    - artificial cobwebs,
    - stink bombs.
  2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with:  
'For professional users only'.
  3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/324/EEC (2).
  4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.

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### Legend

- R75
1. Shall not be placed on the market in mixtures for use for tattooing purposes, and mixtures containing any such substances shall not be used for tattooing purposes, after 4 January 2022 if the substance or substances in question is or are present in the following circumstances:
    - (a) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as carcinogen category 1A, 1B or 2, or germ cell mutagen category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight;
    - (b) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as reproductive toxicant category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight;
    - (c) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin sensitiser category 1, 1A or 1B, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight;
    - (d) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin corrosive category 1, 1A, 1B or 1C or skin irritant category 2, or as serious eye damage category 1 or eye irritant category 2, the substance is present in the mixture in a concentration equal to or greater than:
      - (i) 0,1 % by weight, if the substance is used solely as a pH regulator;
      - (ii) 0,01 % by weight, in all other cases;
    - (e) in the case of a substance listed in Annex II to Regulation (EC) No 1223/2009 (\*1), the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight;
    - (f) in the case of a substance for which a condition of one or more of the following kinds is specified in column g (Product type, Body parts) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight:
      - (i) "Rinse-off products";
      - (ii) "Not to be used in products applied on mucous membranes";
      - (iii) "Not to be used in eye products";
    - (g) in the case of a substance for which a condition is specified in column h (Maximum concentration in ready for use preparation) or column i (Other) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration, or in some other way, that does not accord with the condition specified in that column;
    - (h) in the case of a substance listed in Appendix 13 to this Annex, the substance is present in the mixture in a concentration equal to or greater than the concentration limit specified for that substance in that Appendix.
  2. For the purposes of this entry use of a mixture "for tattooing purposes" means injection or introduction of the mixture into a person's skin, mucous membrane or eyeball, by any process or procedure (including procedures commonly referred to as permanent make-up, cosmetic tattooing, micro-blading and micro-pigmentation), with the aim of making a mark or design on his or her body.
  3. If a substance not listed in Appendix 13 falls within more than one of points (a) to (g) of paragraph 1, the strictest concentration limit laid down in the points in question shall apply to that substance. If a substance listed in Appendix 13 also falls within one or more of points (a) to (g) of paragraph 1, the concentration limit laid down in point (h) of paragraph 1 shall apply to that substance.
  4. By way of derogation, paragraph 1 shall not apply to the following substances until 4 January 2023:
    - (a) Pigment Blue 15:3 (CI 74160, EC No 205-685-1, CAS No 147-14-8);
    - (b) Pigment Green 7 (CI 74260, EC No 215-524-7, CAS No 1328-53-6).
  5. If Part 3 of Annex VI to Regulation (EC) No 1272/2008 is amended after 4 January 2021 to classify or re-classify a substance such that the substance then becomes caught by point (a), (b), (c) or (d) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the date of application of that new or revised classification is after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect on the date of application of that new or revised classification.
  6. If Annex II or Annex IV to Regulation (EC) No 1223/2009 is amended after 4 January 2021 to list or change the listing of a substance such that the substance then becomes caught by point (e), (f) or (g) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the amendment takes effect after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect from the date falling 18 months after entry into force of the act by which that amendment was made.
  7. Suppliers placing a mixture on the market for use for tattooing purposes shall ensure that, after 4 January 2022, the mixture is marked with the following information:
    - (a) the statement "Mixture for use in tattoos or permanent make-up";
    - (b) a reference number to uniquely identify the batch;
    - (c) the list of ingredients in accordance with the nomenclature established in the glossary of common ingredient names pursuant to Article 33 of Regulation (EC) No 1223/2009, or in the absence of a common ingredient name, the IUPAC name. In the absence of a common ingredient name or IUPAC name, the CAS and EC number. Ingredients shall be listed in descending order by weight or volume of the ingredients at the time of formulation. "Ingredient" means any substance added during the process of formulation and present in the mixture for use for tattooing purposes. Impurities shall not be regarded as ingredients. If the name of a substance, used as ingredient within the meaning of this entry, is already required to be stated on the label in accordance with Regulation (EC) No 1272/2008, that ingredient does not need to be marked in accordance with this Regulation;
    - (d) the additional statement "pH regulator" for substances falling under point (d)(i) of paragraph 1;
    - (e) the statement "Contains nickel. Can cause allergic reactions." if the mixture contains nickel below the concentration limit specified in Appendix 13;
    - (f) the statement "Contains chromium (VI). Can cause allergic reactions." if the mixture contains chromium (VI) below the concentration limit specified in Appendix 13;
    - (g) safety instructions for use insofar as they are not already required to be stated on the label by Regulation (EC) No 1272/2008.The information shall be clearly visible, easily legible and marked in a way that is indelible. The information shall be written in the official language(s) of the Member State(s) where the mixture is placed on the market, unless the Member State(s) concerned provide(s) otherwise. Where necessary because of the size of the package, the information listed in the first subparagraph, except for point (a), shall be included instead in the instructions for use. Before using a mixture for tattooing purposes, the person using the mixture shall provide the person undergoing the procedure with the information marked on the package or included in the instructions for use pursuant to this paragraph.
  8. Mixtures that do not contain the statement "Mixture for use in tattoos or permanent make-up" shall not be used for tattooing purposes.

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9. This entry does not apply to substances that are gases at temperature of 20 °C and pressure of 101,3 kPa, or generate a vapour pressure of more than 300 kPa at temperature of 50 °C, with the exception of formaldehyde (CAS No 50-00-0, EC No 200-001-8).

10. This entry does not apply to the placing on the market of a mixture for use for tattooing purposes, or to the use of a mixture for tattooing purposes, when placed on the market exclusively as a medical device or an accessory to a medical device, within the meaning of Regulation (EU) 2017/745, or when used exclusively as a medical device or an accessory to a medical device, within the same meaning. Where the placing on the market or use may not be exclusively as a medical device or an accessory to a medical device, the requirements of Regulation (EU) 2017/745 and of this Regulation shall apply cumulatively.

### List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list

None of the ingredients are listed.

### Seveso Directive

| 2012/18/EU (Seveso III) |                                       |   |        |       |
|-------------------------|---------------------------------------|---|--------|-------|
| No                      | Dangerous substance/hazard categories | Qualifying quantity (tonnes) for the application of lower and upper-tier requirements |        | Notes |
| P5c                     | flammable liquids (cat. 2, 3)         | 5.000   | 50.000 | 51)   |

#### Notation

51) Flammable liquids, categories 2 or 3 not covered by P5a and P5b

### Deco-Paint Directive

|             |                       |
|-------------|-----------------------|
| VOC content | 48,9 %<br>, 801,8 g/l |
|-------------|-----------------------|

### Industrial Emissions Directive (IED)

|   |           |
|---|-----------|
| VOC content                                 | 48,9 %    |
| VOC content                                 | 890,1 g/l |
| VOC content<br>Water content was discounted | 801,8 g/l |

### Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

### Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

### Water Framework Directive (WFD)

| List of pollutants (WFD) |   |        |           |         |
|--------------------------|---|--------|-----------|---------|
| Name of substance        | Name acc. to inventory  | CAS No | Listed in | Remarks |
| 2-Propanol               | Substances and preparations, or the breakdown products of such, which have been proved to possess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine-related functions in or via the aquatic environment |        | A)        |         |

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### Legend

A) Indicative list of the main pollutants

### Regulation on the marketing and use of explosives precursors

none of the ingredients are listed

### Regulation on drug precursors

none of the ingredients are listed

### Regulation on substances that deplete the ozone layer (ODS)

none of the ingredients are listed

### Regulation concerning the export and import of hazardous chemicals (PIC)

none of the ingredients are listed

### Regulation on persistent organic pollutants (POP)

none of the ingredients are listed

### Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

### National inventories

| Country | Inventory  | Status                         |
|---------|------------|--------------------------------|
| AU      | AICS       | all ingredients are listed     |
| CA      | DSL        | all ingredients are listed     |
| CN      | IECSC      | all ingredients are listed     |
| EU      | ECSI       | all ingredients are listed     |
| EU      | REACH Reg. | all ingredients are listed     |
| JP      | CSCL-ENCS  | all ingredients are listed     |
| JP      | ISHA-ENCS  | not all ingredients are listed |
| KR      | KECI       | all ingredients are listed     |
| MX      | INSQ       | not all ingredients are listed |
| NZ      | NZIoC      | all ingredients are listed     |
| PH      | PICCS      | all ingredients are listed     |
| TR      | CICR       | not all ingredients are listed |
| TW      | TCSI       | all ingredients are listed     |
| US      | TSCA       | all ingredients are listed     |

### Legend

AICS Australian Inventory of Chemical Substances  
CICR Chemical Inventory and Control Regulation  
CSCL-ENCS List of Existing and New Chemical Substances (CSCL-ENCS)  
DSL Domestic Substances List (DSL)  
ECSI EC Substance Inventory (EINECS, ELINCS, NLP)  
IECSC Inventory of Existing Chemical Substances Produced or Imported in China  
INSQ National Inventory of Chemical Substances  
ISHA-ENCS Inventory of Existing and New Chemical Substances (ISHA-ENCS)  
KECI Korea Existing Chemicals Inventory  
NZIoC New Zealand Inventory of Chemicals  
PICCS Philippine Inventory of Chemicals and Chemical Substances (PICCS)  
REACH Reg. REACH registered substances  
TCSI Taiwan Chemical Substance Inventory  
TSCA Toxic Substance Control Act

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### 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information

### Indication of changes (revised safety data sheet)

Alignment to regulation: Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU

Restructuring: section 9, section 14

| Section | Former entry (text/value)  | Actual entry (text/value)   | Safety-relevant |
|---------|--|---|-----------------|
| 2.1     |  | Classification according to Regulation (EC) No 1272/2008 (CLP):<br>change in the listing (table)  | yes             |
| 2.1     | The most important adverse physicochemical, human health and environmental effects:<br>Narcotic effects. | The most important adverse physicochemical, human health and environmental effects:<br>The product is combustible and can be ignited by potential ignition sources. | yes             |
| 2.2     |  | Precautionary statements - prevention:<br>change in the listing (table)   | yes             |
| 2.3     | Other hazards:<br>There is no additional information.  | Other hazards   | yes             |
| 2.3     |  | Results of PBT and vPvB assessment:<br>This mixture does not contain any substances that are assessed to be a PBT or a vPvB.  | yes             |

### Abbreviations and acronyms

| Abbr.       | Descriptions of used abbreviations  |
|-------------|---|
| ADN         | Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways) |
| ADR         | Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)   |
| ADR/RID/ADN | Agreements concerning the International Carriage of Dangerous Goods by Road/Rail/Inland Waterways (ADR/RID/ADN)   |
| BCF         | Bioconcentration factor   |
| BOD         | Biochemical Oxygen Demand   |
| CAS         | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)  |
| CLP         | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures  |
| COD         | Chemical oxygen demand  |
| DGR         | Dangerous Goods Regulations (see IATA/DGR)  |
| DNEL        | Derived No-Effect Level   |
| EC50        | Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval                                      |
| EC No       | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)                                     |
| EINECS      | European Inventory of Existing Commercial Chemical Substances   |

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| Abbr.      | Descriptions of used abbreviations  |
|------------|---|
| ELINCS     | European List of Notified Chemical Substances   |
| EmS        | Emergency Schedule  |
| Eye Dam.   | Seriously damaging to the eye   |
| Eye Irrit. | Irritant to the eye   |
| Flam. Liq. | Flammable liquid  |
| GHS        | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations   |
| IATA       | International Air Transport Association   |
| IATA/DGR   | Dangerous Goods Regulations (DGR) for the air transport (IATA)  |
| ICAO       | International Civil Aviation Organization   |
| ICAO-TI    | Technical instructions for the safe transport of dangerous goods by air   |
| IMDG       | International Maritime Dangerous Goods Code   |
| IMDG-Code  | International Maritime Dangerous Goods Code   |
| index No   | The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008  |
| LC50       | Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval                       |
| LD50       | Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval  |
| log KOW    | n-Octanol/water   |
| NLP        | No-Longer Polymer   |
| PBT        | Persistent, Bioaccumulative and Toxic   |
| PNEC       | Predicted No-Effect Concentration   |
| REACH      | Registration, Evaluation, Authorisation and Restriction of Chemicals  |
| RID        | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail) |
| STOT SE    | Specific target organ toxicity - single exposure  |
| SVHC       | Substance of Very High Concern  |
| VOC        | Volatile Organic Compounds  |
| vPvB       | Very Persistent and very Bioaccumulative  |

### Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### Classification procedure

Physical and chemical properties. The classification is based on tested mixture.

Health hazards. Environmental hazards. The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

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### List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text                                |
|------|-------------------------------------|
| H225 | Highly flammable liquid and vapour. |
| H319 | Causes serious eye irritation.      |
| H336 | May cause drowsiness or dizziness.  |

### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.



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## Hematoxylin solution B acc. to Weigert for microscopy

article number: **X907**  
Version: **4.0 en**  
Replaces version of: 16.07.2019  
Version: (3)

date of compilation: 30.07.2015  
Revision: 14.10.2021

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

### 1.1 Product identifier

|                                 |  |
|---------------------------------|--|
| Identification of the substance | <b>Hematoxylin solution B acc. to Weigert</b> for microscopy |
| Article number                  | X907   |
| Registration number (REACH)     | not relevant (mixture)                                       |

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

|                           |   |
|---------------------------|---|
| Relevant identified uses: | Laboratory chemical<br>Laboratory and analytical use  |
| Uses advised against:     | Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household). |

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

Carl Roth GmbH + Co KG  
Schoemperlenstr. 3-5  
D-76185 Karlsruhe  
Germany

**Telephone:**+49 (0) 721 - 56 06 0  
**Telefax:** +49 (0) 721 - 56 06 149  
**e-mail:** sicherheit@carlroth.de  
**Website:** www.carlroth.de

Competent person responsible for the safety data sheet: :Department Health, Safety and Environment

**e-mail (competent person):** **sicherheit@carlroth.de**

### 1.4 Emergency telephone number

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

| Section | Hazard class                             | Cat-egory | Hazard class and category | Hazard statement |
|---------|--|-----------|---------------------------|------------------|
| 2.16    | Substance or mixture corrosive to metals | 1         | Met. Corr. 1              | H290             |
| 3.3     | Serious eye damage/eye irritation        | 1         | Eye Dam. 1                | H318             |

For full text of abbreviations: see SECTION 16

### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

**Signal word** **Danger**

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### Pictograms

GHS05



### Hazard statements

H290 May be corrosive to metals  
H318 Causes serious eye damage

### Precautionary statements

#### Precautionary statements - prevention

P280 Wear protective gloves/eye protection

#### Precautionary statements - response

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P310 Immediately call a POISON CENTER/doctor

**Hazardous ingredients for labelling:** Iron(III) chloride hexahydrate, Hydrochloric acid  
.... %

### Labelling of packages where the contents do not exceed 125 ml

Signal word: **Danger**

Symbol(s)



H318 Causes serious eye damage.  
P280 Wear protective gloves/eye protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER/doctor.  
contains: Iron(III) chloride hexahydrate, Hydrochloric acid .... %

## 2.3 Other hazards

### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

not relevant (mixture)

### 3.2 Mixtures

#### Description of the mixture





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| Name of substance              | Identifier  | Wt%   | Classification acc. to GHS  | Pictograms  | Notes                   |
|--------------------------------|---|-------|---|---|-------------------------|
| Iron(III) chloride hexahydrate | CAS No<br>10025-77-1<br><br>EC No<br>600-047-2  | < 5   | Met. Corr. 1 / H290<br>Acute Tox. 4 / H302<br>Skin Irrit. 2 / H315<br>Eye Dam. 1 / H318 |   |                         |
| Hydrochloric acid .... %       | CAS No<br>7647-01-0<br><br>EC No<br>231-595-7<br><br>Index No<br>017-002-01-X<br><br>REACH Reg. No<br>01-2119484862-<br>27-xxxx | < 2,5 | Met. Corr. 1 / H290<br>Skin Corr. 1B / H314<br>Eye Dam. 1 / H318<br>STOT SE 3 / H335    |   | B(a)<br>GHS-HC<br>IOELV |

### Notes

B(a): The classification refers to an aqueous solution

GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/2008/EC, Annex VI)

IOELV: Substance with a community indicative occupational exposure limit value

| Name of substance              | Identifier  | Specific Conc. Limits  | M-Factors | ATE       | Exposure route |
|--------------------------------|---|--|-----------|-----------|----------------|
| Iron(III) chloride hexahydrate | CAS No<br>10025-77-1<br><br>EC No<br>600-047-2                                | -  | -         | 500 mg/kg | oral           |
| Hydrochloric acid .... %       | CAS No<br>7647-01-0<br><br>EC No<br>231-595-7<br><br>Index No<br>017-002-01-X | Met. Corr. 1; H290: C ≥ 0,1 %<br>Skin Corr. 1B; H314: C ≥ 25 %<br>Skin Irrit. 2; H315: 10 % ≤ C < 25 %<br>Eye Dam. 1; H318: C ≥ 25 %<br>Eye Irrit. 2; H319: 10 % ≤ C < 25 %<br>STOT SE 3; H335: C ≥ 10 % | -         | -         |                |

For full text of abbreviations: see SECTION 16

## SECTION 4: First aid measures

### 4.1 Description of first aid measures



#### General notes

Take off contaminated clothing.

#### Following inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

#### Following skin contact

Rinse skin with water/shower. In all cases of doubt, or when symptoms persist, seek medical advice.

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### Following 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.

### Following ingestion

Rinse mouth. Call a doctor if you feel unwell.

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

Irritant effects, Risk of serious damage to eyes

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

none

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media



#### Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings  
water spray, alcohol resistant foam, dry extinguishing powder, BC-powder, carbon dioxide (CO<sub>2</sub>)

#### Unsuitable extinguishing media

water jet

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

Non-combustible.

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

## SECTION 6: Accidental release measures

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



#### For non-emergency personnel

Do not breathe vapour/spray. Avoid contact with skin and eyes.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water. The product is an acid. Before discharge into sewage plants the product normally needs to be neutralised.

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

#### Advice on how to contain a spill

Covering of drains.

#### Advice on how to clean up a spill

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

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### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Handle and open container with care.

#### Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

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

Keep container tightly closed in a cool place.

#### Incompatible substances or mixtures

Observe hints for combined storage.

#### Consideration of other advice:

#### Specific designs for storage rooms or vessels

Recommended storage temperature: 15 – 25 °C

### 7.3 Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### National limit values

#### Occupational exposure limit values (Workplace Exposure Limits)

| Country | Name of agent     | CAS No    | Identifier | TWA [ppm] | TWA [mg/m <sup>3</sup> ] | STEL [ppm] | STEL [mg/m <sup>3</sup> ] | Ceiling-C [ppm] | Ceiling-C [mg/m <sup>3</sup> ] | Notation | Source     |
|---------|-------------------|-----------|------------|-----------|--------------------------|------------|---------------------------|-----------------|--------------------------------|----------|------------|
| EU      | hydrogen chloride | 7647-01-0 | IOELV      | 5         | 8                        | 10         | 15                        |                 |                                |          | 2000/39/EC |
| MT      | hydrogen chloride | 7647-01-0 | OELV       | 5         | 8                        | 10         | 15                        |                 |                                |          | CAP. 424   |

#### Notation

Ceiling-C  
STEL

Ceiling value is a limit value above which exposure should not occur  
Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA

Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

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| Relevant DNELs of components of the mixture |            |           |                      |                                    |                   |                            |
|---|------------|-----------|----------------------|------------------------------------|-------------------|----------------------------|
| Name of substance                           | CAS No     | End-point | Threshold level      | Protection goal, route of exposure | Used in           | Exposure time              |
| Iron(III) chloride hexahydrate              | 10025-77-1 | DNEL      | 2,8 mg/kg bw/day     | human, dermal                      | worker (industry) | chronic - systemic effects |
| Hydrochloric acid ... %                     | 7647-01-0  | DNEL      | 8 mg/m <sup>3</sup>  | human, inhalatory                  | worker (industry) | chronic - local effects    |
| Hydrochloric acid ... %                     | 7647-01-0  | DNEL      | 15 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | acute - local effects      |

### 8.2 Exposure controls

#### Individual protection measures (personal protective equipment)

##### Eye/face protection



Use safety goggle with side protection.

##### Skin protection



##### • hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

##### • type of material

NBR (Nitrile rubber)

##### • material thickness

>0,11 mm

##### • breakthrough times of the glove material

>480 minutes (permeation: level 6)

##### • other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

##### Respiratory protection

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Respiratory protection necessary at: Aerosol or mist formation. Type: E (against acidic gases like sulphur dioxide or hydrogen chloride, colour code: Yellow).

### Environmental exposure controls

Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|  |   |
|--|---|
| Physical state   | liquid  |
| Colour   | yellowish brown                               |
| Odour  | characteristic                                |
| Melting point/freezing point                             | not determined                                |
| Boiling point or initial boiling point and boiling range | ~ 100 °C                                      |
| Flammability   | non-combustible                               |
| Lower and upper explosion limit                          | not determined                                |
| Flash point  | not determined                                |
| Auto-ignition temperature                                | not determined                                |
| Decomposition temperature                                | not relevant                                  |
| pH (value)   | <2 (20 °C)                                    |
| Kinematic viscosity                                      | not determined                                |
| <u>Solubility(ies)</u>                                   |   |
| Water solubility   | miscible in any proportion                    |
| <u>Partition coefficient</u>                             |   |
| Partition coefficient n-octanol/water (log value):       | not relevant (inorganic)                      |
| Vapour pressure  | not determined                                |
| Density  | ~ 1,03 g/cm <sup>3</sup> at 20 °C             |
| Relative vapour density                                  | information on this property is not available |
| Particle characteristics                                 | not relevant (liquid)                         |
| <u>Other safety parameters</u>                           |   |
| Oxidising properties                                     | none  |

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### 9.2 Other information

Information with regard to physical hazard classes:

Corrosive to metals

category 1: corrosive to metals

Other safety characteristics:

Miscibility

completely miscible with water

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Substance or mixture corrosive to metals.

### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### 10.3 Possibility of hazardous reactions

**Violent reaction with:** Alkali (lye), Strong alkali

### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

### 10.5 Incompatible materials

different metals

### 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

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

Test data are not available for the complete mixture.

#### Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### Classification according to GHS (1272/2008/EC, CLP)

#### Acute toxicity

Shall not be classified as acutely toxic.

| Acute toxicity estimate (ATE) of components of the mixture |            |                |           |
|--|------------|----------------|-----------|
| Name of substance  | CAS No     | Exposure route | ATE       |
| Iron(III) chloride hexahydrate                             | 10025-77-1 | oral           | 500 mg/kg |



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| Acute toxicity of components of the mixture |            |                |          |              |         |
|---|------------|----------------|----------|--------------|---------|
| Name of substance                           | CAS No     | Exposure route | Endpoint | Value        | Species |
| Iron(III) chloride hexahydrate              | 10025-77-1 | oral           | LD50     | 500 mg/kg    | rat     |
| Iron(III) chloride hexahydrate              | 10025-77-1 | dermal         | LD50     | >2.000 mg/kg | rat     |

### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

### Serious eye damage/eye irritation

Causes serious eye damage.

### Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

### Carcinogenicity

Shall not be classified as carcinogenic.

### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

### Symptoms related to the physical, chemical and toxicological characteristics

#### • If swallowed

irritant effects

#### • If in eyes

Causes serious eye damage, risk of blindness

#### • If inhaled

Data are not available.

#### • If on skin

Data are not available.

#### • Other information

none

### 11.2 Endocrine disrupting properties

None of the ingredients are listed.

### 11.3 Information on other hazards

There is no additional information.

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### SECTION 12: Ecological information

#### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

#### Biodegradation

Not readily biodegradable. The methods for determining the biological degradability are not applicable to inorganic substances.

#### 12.2 Process of degradability

Data are not available.

#### 12.3 Bioaccumulative potential

Data are not available.

#### 12.4 Mobility in soil

Data are not available.

#### 12.5 Results of PBT and vPvB assessment

Data are not available.

#### 12.6 Endocrine disrupting properties

None of the ingredients are listed.

#### 12.7 Other adverse effects

Data are not available.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Sewage disposal-relevant information

Do not empty into drains.

#### Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used.

#### 13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Waste catalogue ordinance (Germany).

#### 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

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### SECTION 14: Transport information

#### 14.1 UN number or ID number

|             |         |
|-------------|---------|
| ADR/RID/ADN | UN 3264 |
| IMDG-Code   | UN 3264 |
| ICAO-TI     | UN 3264 |

#### 14.2 UN proper shipping name

|  |  |
|--|--|
| ADR/RID/ADN                            | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.              |
| IMDG-Code                              | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.              |
| ICAO-TI                                | Corrosive liquid, acidic, inorganic, n.o.s.              |
| Technical name (hazardous ingredients) | Iron(III) chloride hexahydrate, Hydrochloric acid .... % |

#### 14.3 Transport hazard class(es)

|             |   |
|-------------|---|
| ADR/RID/ADN | 8 |
| IMDG-Code   | 8 |
| ICAO-TI     | 8 |

#### 14.4 Packing group

|             |     |
|-------------|-----|
| ADR/RID/ADN | III |
| IMDG-Code   | III |
| ICAO-TI     | III |

#### 14.5 Environmental hazards

non-environmentally hazardous acc. to the dangerous goods regulations

#### 14.6 Special precautions for user


Provisions for dangerous goods (ADR) should be complied within the premises.

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

The cargo is not intended to be carried in bulk.

#### 14.8 Information for each of the UN Model Regulations

##### Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional information

|   |  |
|---|--|
| Proper shipping name  | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.  |
| Particulars in the transport document   | UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., (contains: Iron(III) chloride hexahydrate, Hydrochloric acid .... %), 8, III, (E) |
| Classification code   | C1   |
| Danger label(s)   | 8  |
|  |  |
| Special provisions (SP)   | 274  |
| Excepted quantities (EQ)  | E1   |

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|                               |     |
|-------------------------------|-----|
| Limited quantities (LQ)       | 5 L |
| Transport category (TC)       | 3   |
| Tunnel restriction code (TRC) | E   |
| Hazard identification No      | 80  |

### International Maritime Dangerous Goods Code (IMDG) - Additional information

|  |   |
|--|---|
| Proper shipping name                     | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.   |
| Particulars in the shipper's declaration | UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., (contains: Iron(III) chloride hexahydrate, Hydrochloric acid .... %), 8, III |
| Marine pollutant                         | -   |
| Danger label(s)                          | 8   |



|                          |           |
|--------------------------|-----------|
| Special provisions (SP)  | 223, 274  |
| Excepted quantities (EQ) | E1        |
| Limited quantities (LQ)  | 5 L       |
| EmS                      | F-A, S-B  |
| Stowage category         | A         |
| <b>Segregation group</b> | 1 - Acids |

### International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

|  |   |
|--|---|
| Proper shipping name                     | Corrosive liquid, acidic, inorganic, n.o.s.   |
| Particulars in the shipper's declaration | UN3264, Corrosive liquid, acidic, inorganic, n.o.s., (contains: Iron(III) chloride hexahydrate, Hydrochloric acid .... %), 8, III |
| Danger label(s)                          | 8   |



|                          |     |
|--------------------------|-----|
| Special provisions (SP)  | A3  |
| Excepted quantities (EQ) | E1  |
| Limited quantities (LQ)  | 1 L |

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

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### Restrictions according to REACH, Annex XVII

| Dangerous substances with restrictions (REACH, Annex XVII) |  |        |             |    |
|--|--|--------|-------------|----|
| Name of substance  | Name acc. to inventory   | CAS No | Restriction | No |
| Hematoxylin solution B acc. to Weigert                     | this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC |        | R3          | 3  |
| Iron(III) chloride hexahydrate                             | substances in tattoo inks and permanent make-up  |        | R75         | 75 |
| Hydrochloric acid .... %                                   | substances in tattoo inks and permanent make-up  |        | R75         | 75 |

#### Legend

- R3
1. Shall not be used in:
    - ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
    - tricks and jokes,
    - games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
  2. Articles not complying with paragraph 1 shall not be placed on the market.
  3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:
    - can be used as fuel in decorative oil lamps for supply to the general public, and
    - present an aspiration hazard and are labelled with H304.
  4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).
  5. Without prejudice to the implementation of other Union provisions relating to the classification, labelling and packaging of substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:
    - (a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil – or even sucking the wick of lamps – may lead to life-threatening lung damage";
    - (b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter fluid may lead to life threatening lung damage";
    - (c) lamps oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.;

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### Legend

- R75
1. Shall not be placed on the market in mixtures for use for tattooing purposes, and mixtures containing any such substances shall not be used for tattooing purposes, after 4 January 2022 if the substance or substances in question is or are present in the following circumstances:
    - (a) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as carcinogen category 1A, 1B or 2, or germ cell mutagen category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight;
    - (b) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as reproductive toxicant category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight;
    - (c) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin sensitiser category 1, 1A or 1B, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight;
    - (d) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin corrosive category 1, 1A, 1B or 1C or skin irritant category 2, or as serious eye damage category 1 or eye irritant category 2, the substance is present in the mixture in a concentration equal to or greater than:
      - (i) 0,1 % by weight, if the substance is used solely as a pH regulator;
      - (ii) 0,01 % by weight, in all other cases;
    - (e) in the case of a substance listed in Annex II to Regulation (EC) No 1223/2009 (\*1), the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight;
    - (f) in the case of a substance for which a condition of one or more of the following kinds is specified in column g (Product type, Body parts) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight:
      - (i) "Rinse-off products";
      - (ii) "Not to be used in products applied on mucous membranes";
      - (iii) "Not to be used in eye products";
    - (g) in the case of a substance for which a condition is specified in column h (Maximum concentration in ready for use preparation) or column i (Other) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration, or in some other way, that does not accord with the condition specified in that column;
    - (h) in the case of a substance listed in Appendix 13 to this Annex, the substance is present in the mixture in a concentration equal to or greater than the concentration limit specified for that substance in that Appendix.
  2. For the purposes of this entry use of a mixture "for tattooing purposes" means injection or introduction of the mixture into a person's skin, mucous membrane or eyeball, by any process or procedure (including procedures commonly referred to as permanent make-up, cosmetic tattooing, micro-blading and micro-pigmentation), with the aim of making a mark or design on his or her body.
  3. If a substance not listed in Appendix 13 falls within more than one of points (a) to (g) of paragraph 1, the strictest concentration limit laid down in the points in question shall apply to that substance. If a substance listed in Appendix 13 also falls within one or more of points (a) to (g) of paragraph 1, the concentration limit laid down in point (h) of paragraph 1 shall apply to that substance.
  4. By way of derogation, paragraph 1 shall not apply to the following substances until 4 January 2023:
    - (a) Pigment Blue 15:3 (CI 74160, EC No 205-685-1, CAS No 147-14-8);
    - (b) Pigment Green 7 (CI 74260, EC No 215-524-7, CAS No 1328-53-6).
  5. If Part 3 of Annex VI to Regulation (EC) No 1272/2008 is amended after 4 January 2021 to classify or re-classify a substance such that the substance then becomes caught by point (a), (b), (c) or (d) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the date of application of that new or revised classification is after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect on the date of application of that new or revised classification.
  6. If Annex II or Annex IV to Regulation (EC) No 1223/2009 is amended after 4 January 2021 to list or change the listing of a substance such that the substance then becomes caught by point (e), (f) or (g) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the amendment takes effect after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect from the date falling 18 months after entry into force of the act by which that amendment was made.
  7. Suppliers placing a mixture on the market for use for tattooing purposes shall ensure that, after 4 January 2022, the mixture is marked with the following information:
    - (a) the statement "Mixture for use in tattoos or permanent make-up";
    - (b) a reference number to uniquely identify the batch;
    - (c) the list of ingredients in accordance with the nomenclature established in the glossary of common ingredient names pursuant to Article 33 of Regulation (EC) No 1223/2009, or in the absence of a common ingredient name, the IUPAC name. In the absence of a common ingredient name or IUPAC name, the CAS and EC number. Ingredients shall be listed in descending order by weight or volume of the ingredients at the time of formulation. "Ingredient" means any substance added during the process of formulation and present in the mixture for use for tattooing purposes. Impurities shall not be regarded as ingredients. If the name of a substance, used as ingredient within the meaning of this entry, is already required to be stated on the label in accordance with Regulation (EC) No 1272/2008, that ingredient does not need to be marked in accordance with this Regulation;
    - (d) the additional statement "pH regulator" for substances falling under point (d)(i) of paragraph 1;
    - (e) the statement "Contains nickel. Can cause allergic reactions." if the mixture contains nickel below the concentration limit specified in Appendix 13;
    - (f) the statement "Contains chromium (VI). Can cause allergic reactions." if the mixture contains chromium (VI) below the concentration limit specified in Appendix 13;
    - (g) safety instructions for use insofar as they are not already required to be stated on the label by Regulation (EC) No 1272/2008.The information shall be clearly visible, easily legible and marked in a way that is indelible. The information shall be written in the official language(s) of the Member State(s) where the mixture is placed on the market, unless the Member State(s) concerned provide(s) otherwise. Where necessary because of the size of the package, the information listed in the first subparagraph, except for point (a), shall be included instead in the instructions for use. Before using a mixture for tattooing purposes, the person using the mixture shall provide the person undergoing the procedure with the information marked on the package or included in the instructions for use pursuant to this paragraph.
  8. Mixtures that do not contain the statement "Mixture for use in tattoos or permanent make-up" shall not be used for tattooing purposes.

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## Hematoxylin solution B acc. to Weigert for microscopy

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### Legend

9. This entry does not apply to substances that are gases at temperature of 20 °C and pressure of 101,3 kPa, or generate a vapour pressure of more than 300 kPa at temperature of 50 °C, with the exception of formaldehyde (CAS No 50-00-0, EC No 200-001-8).

10. This entry does not apply to the placing on the market of a mixture for use for tattooing purposes, or to the use of a mixture for tattooing purposes, when placed on the market exclusively as a medical device or an accessory to a medical device, within the meaning of Regulation (EU) 2017/745, or when used exclusively as a medical device or an accessory to a medical device, within the same meaning. Where the placing on the market or use may not be exclusively as a medical device or an accessory to a medical device, the requirements of Regulation (EU) 2017/745 and of this Regulation shall apply cumulatively.

### List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list

None of the ingredients are listed.

### Seveso Directive

| 2012/18/EU (Seveso III) |                                       |   |       |
|-------------------------|---------------------------------------|---|-------|
| No                      | Dangerous substance/hazard categories | Qualifying quantity (tonnes) for the application of lower and upper-tier requirements | Notes |
|                         | not assigned                          |   |       |

### Deco-Paint Directive

|             |     |
|-------------|-----|
| VOC content | 0 % |
|-------------|-----|

### Industrial Emissions Directive (IED)

|             |     |
|-------------|-----|
| VOC content | 0 % |
|-------------|-----|

### Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

### Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

### Water Framework Directive (WFD)

| List of pollutants (WFD)       |                            |        |           |         |
|--------------------------------|----------------------------|--------|-----------|---------|
| Name of substance              | Name acc. to inventory     | CAS No | Listed in | Remarks |
| Iron(III) chloride hexahydrate | Metals and their compounds |        | A)        |         |

### Legend

A) Indicative list of the main pollutants

### Regulation on the marketing and use of explosives precursors

none of the ingredients are listed

### Regulation on drug precursors

| Name of substance        | CAS No    | Classification | CN Code    | Threshold level |
|--------------------------|-----------|----------------|------------|-----------------|
| Hydrochloric acid .... % | 7647-01-0 | Category 3     | 2806 10 00 |                 |

### Regulation on substances that deplete the ozone layer (ODS)

none of the ingredients are listed

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### Regulation concerning the export and import of hazardous chemicals (PIC)

none of the ingredients are listed

### Regulation on persistent organic pollutants (POP)

none of the ingredients are listed

### Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

### UN Convention against Illicit Traffic in Narcotic Drugs and Psychotropic Substances

| Name of substance        | CAS No    | Listed in | HS code |
|--------------------------|-----------|-----------|---------|
| Hydrochloric acid .... % | 7647-01-0 | Table II  | 2806.10 |

### National inventories

| Country | Inventory  | Status                         |
|---------|------------|--------------------------------|
| AU      | AICS       | all ingredients are listed     |
| CA      | DSL        | not all ingredients are listed |
| CN      | IECSC      | all ingredients are listed     |
| EU      | ECSI       | not all ingredients are listed |
| EU      | REACH Reg. | all ingredients are listed     |
| JP      | CSCL-ENCS  | not all ingredients are listed |
| KR      | KECI       | not all ingredients are listed |
| MX      | INSQ       | not all ingredients are listed |
| NZ      | NZIoC      | all ingredients are listed     |
| PH      | PICCS      | all ingredients are listed     |
| TR      | CICR       | not all ingredients are listed |
| TW      | TCSI       | all ingredients are listed     |
| US      | TSCA       | not all ingredients are listed |

#### Legend

|            |   |
|------------|---|
| AICS       | Australian Inventory of Chemical Substances                             |
| CICR       | Chemical Inventory and Control Regulation                               |
| CSCL-ENCS  | List of Existing and New Chemical Substances (CSCL-ENCS)                |
| DSL        | Domestic Substances List (DSL)  |
| ECSI       | EC Substance Inventory (EINECS, ELINCS, NLP)                            |
| IECSC      | Inventory of Existing Chemical Substances Produced or Imported in China |
| INSQ       | National Inventory of Chemical Substances                               |
| KECI       | Korea Existing Chemicals Inventory                                      |
| NZIoC      | New Zealand Inventory of Chemicals                                      |
| PICCS      | Philippine Inventory of Chemicals and Chemical Substances (PICCS)       |
| REACH Reg. | REACH registered substances   |
| TCSI       | Taiwan Chemical Substance Inventory                                     |
| TSCA       | Toxic Substance Control Act   |

## 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.



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### SECTION 16: Other information

#### Indication of changes (revised safety data sheet)

Alignment to regulation: Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU

Restructuring: section 9, section 14

| Section | Former entry (text/value)  | Actual entry (text/value)  | Safety-relevant |
|---------|--|--|-----------------|
| 2.1     |  | Classification according to Regulation (EC) No 1272/2008 (CLP):<br>change in the listing (table)                             | yes             |
| 2.2     |  | Pictograms:<br>change in the listing (table)   | yes             |
| 2.2     |  | Hazard statements:<br>change in the listing (table)  | yes             |
| 2.2     |  | Precautionary statements - response:<br>change in the listing (table)  | yes             |
| 2.2     | Hazardous ingredients for labelling:<br>Iron(III) chloride hexahydrate | Hazardous ingredients for labelling:<br>Iron(III) chloride hexahydrate, Hydrochloric acid<br>... %                           | yes             |
| 2.2     |  | Labelling of packages where the contents do not exceed 125 ml:<br>change in the listing (table)                              | yes             |
| 2.2     |  | Labelling of packages where the contents do not exceed 125 ml:<br>change in the listing (table)                              | yes             |
| 2.2     |  | Labelling of packages where the contents do not exceed 125 ml:<br>change in the listing (table)                              | yes             |
| 2.2     | contains:<br>Iron(III) chloride hexahydrate                            | contains:<br>Iron(III) chloride hexahydrate, Hydrochloric acid<br>... %  | yes             |
| 2.3     | Other hazards:<br>There is no additional information.                  | Other hazards  | yes             |
| 2.3     |  | Results of PBT and vPvB assessment:<br>This mixture does not contain any substances that are assessed to be a PBT or a vPvB. | yes             |

#### Abbreviations and acronyms

| Abbr.       | Descriptions of used abbreviations  |
|-------------|---|
| 2000/39/EC  | Commission Directive establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC   |
| Acute Tox.  | Acute toxicity  |
| ADN         | Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways) |
| ADR         | Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)   |
| ADR/RID/ADN | Agreements concerning the International Carriage of Dangerous Goods by Road/Rail/Inland Waterways (ADR/RID/ADN)   |

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| Abbr.      | Descriptions of used abbreviations  |
|------------|---|
| ATE        | Acute Toxicity Estimate   |
| CAP. 424   | Occupational Health and Safety Authority Act (CAP. 424)   |
| CAS        | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)  |
| Ceiling-C  | Ceiling value   |
| CLP        | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures  |
| CN Code    | Combined Nomenclature   |
| DGR        | Dangerous Goods Regulations (see IATA/DGR)  |
| DNEL       | Derived No-Effect Level   |
| EC No      | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union) |
| EINECS     | European Inventory of Existing Commercial Chemical Substances   |
| ELINCS     | European List of Notified Chemical Substances   |
| EmS        | Emergency Schedule  |
| Eye Dam.   | Seriously damaging to the eye   |
| Eye Irrit. | Irritant to the eye   |
| GHS        | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations   |
| HS         | Harmonized Commodity Description and Coding System (Harmonized System, drawn up by the World Customs Organisation)  |
| IATA       | International Air Transport Association   |
| IATA/DGR   | Dangerous Goods Regulations (DGR) for the air transport (IATA)  |
| ICAO       | International Civil Aviation Organization   |
| ICAO-TI    | Technical instructions for the safe transport of dangerous goods by air   |
| IMDG       | International Maritime Dangerous Goods Code   |
| IMDG-Code  | International Maritime Dangerous Goods Code   |
| index No   | The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008  |
| IOELV      | Indicative occupational exposure limit value  |
| LD50       | Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval  |
| Met. Corr. | Substance or mixture corrosive to metals  |
| NLP        | No-Longer Polymer   |
| PBT        | Persistent, Bioaccumulative and Toxic   |
| ppm        | Parts per million   |
| REACH      | Registration, Evaluation, Authorisation and Restriction of Chemicals  |
| RID        | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)           |
| Skin Corr. | Corrosive to skin   |

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| Abbr.       | Descriptions of used abbreviations               |
|-------------|--|
| Skin Irrit. | Irritant to skin                                 |
| STEL        | Short-term exposure limit                        |
| STOT SE     | Specific target organ toxicity - single exposure |
| SVHC        | Substance of Very High Concern                   |
| TWA         | Time-weighted average                            |
| VOC         | Volatile Organic Compounds                       |
| vPvB        | Very Persistent and very Bioaccumulative         |

### Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.  
Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### Classification procedure

Physical and chemical properties. The classification is based on tested mixture.

Health hazards. Environmental hazards. The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text                                     |
|------|--|
| H290 | May be corrosive to metals.              |
| H302 | Harmful if swallowed.                    |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation.                  |
| H318 | Causes serious eye damage.               |
| H335 | May cause respiratory irritation.        |

### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

# Safety data sheet

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## Van Gieson's Solution for microscopy

article number: **3925**  
Version: **3.0 en**  
Replaces version of: 18.07.2019  
Version: (2)

date of compilation: 07.08.2015  
Revision: 15.10.2021

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

### 1.1 Product identifier

Identification of the substance **Van Gieson's Solution** for microscopy

Article number 3925

Registration number (REACH) not relevant (mixture)

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

Relevant identified uses: Laboratory chemical  
Laboratory and analytical use

Uses advised against: Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household).

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

Carl Roth GmbH + Co KG  
Schoemperlenstr. 3-5  
D-76185 Karlsruhe  
Germany

**Telephone:** +49 (0) 721 - 56 06 0

**Telefax:** +49 (0) 721 - 56 06 149

**e-mail:** [sicherheit@carlroth.de](mailto:sicherheit@carlroth.de)

**Website:** [www.carlroth.de](http://www.carlroth.de)

Competent person responsible for the safety data sheet: :Department Health, Safety and Environment

**e-mail (competent person):** [sicherheit@carlroth.de](mailto:sicherheit@carlroth.de)

### 1.4 Emergency telephone number

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 (CLP)

This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

### 2.2 Label elements

#### Labelling according to Regulation (EC) No 1272/2008 (CLP)

not required

### 2.3 Other hazards

#### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

not relevant (mixture)

#### 3.2 Mixtures

##### Description of the mixture

| Name of substance | Identifier  | Wt%     | Classification acc. to GHS  | Pictograms   | Notes           |
|-------------------|---|---------|---|--|-----------------|
| Picric acid       | CAS No<br>88-89-1<br><br>EC No<br>201-865-9<br><br>Index No<br>609-009-00-X<br><br>REACH Reg. No<br>01-2120763587-<br>40-xxxx | 1 - < 5 | Expl. 1.1 / H201<br>Acute Tox. 3 / H301<br>Acute Tox. 3 / H311<br>Acute Tox. 3 / H331 |   | GHS-HC<br>IOELV |
| Acid fuchsin      | CAS No<br>3244-88-0<br><br>EC No<br>221-816-5<br><br>REACH Reg. No<br>01-2120741983-<br>46-xxxx                               | < 0,5   | Skin Corr. 1C / H314<br>Eye Dam. 1 / H318   |  |                 |

##### Notes

GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/2008/EC, Annex VI)

IOELV: Substance with a community indicative occupational exposure limit value

| Name of substance | Identifier  | Specific Conc. Limits | M-Factors | ATE                                   | Exposure route                              |
|-------------------|---|-----------------------|-----------|---------------------------------------|---|
| Picric acid       | CAS No<br>88-89-1<br><br>EC No<br>201-865-9<br><br>Index No<br>609-009-00-X | -                     | -         | 200 mg/kg<br>300 mg/kg<br>0,5 mg/l/4h | oral<br>dermal<br>inhalation: dust/<br>mist |

For full text of abbreviations: see SECTION 16

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures



##### General notes

Take off contaminated clothing.

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### Following inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

### Following skin contact

Rinse skin with water/shower. In all cases of doubt, or when symptoms persist, seek medical advice.

### Following eye contact

Rinse cautiously with water for several minutes. In all cases of doubt, or when symptoms persist, seek medical advice.

### Following ingestion

Rinse mouth. Call a doctor if you feel unwell.

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

Symptoms and effects are not known to date.

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

none

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media



#### Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings  
water spray, alcohol resistant foam, dry extinguishing powder, BC-powder, carbon dioxide (CO<sub>2</sub>)

#### Unsuitable extinguishing media

water jet

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

Non-combustible.

#### Hazardous combustion products

In case of fire may be liberated: Nitrogen oxides (NO<sub>x</sub>)

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

## SECTION 6: Accidental release measures

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



#### For non-emergency personnel

No special measures are necessary.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water.

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

#### Advice on how to contain a spill

Covering of drains.

#### Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece).

#### Other information relating to spills and releases

Place in appropriate containers for disposal.

### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

When not in use, keep containers tightly closed.

#### Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs.

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

Keep container tightly closed in a cool place.

#### Incompatible substances or mixtures

Observe hints for combined storage.

#### Consideration of other advice:

#### Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

### 7.3 Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### National limit values

#### Occupational exposure limit values (Workplace Exposure Limits)

| Country | Name of agent | CAS No  | Identifier | TWA [ppm] | TWA [mg/m <sup>3</sup> ] | STEL [ppm] | STEL [mg/m <sup>3</sup> ] | Ceiling-C [ppm] | Ceiling-C [mg/m <sup>3</sup> ] | Notation | Source     |
|---------|---------------|---------|------------|-----------|--------------------------|------------|---------------------------|-----------------|--------------------------------|----------|------------|
| EU      | picric acid   | 88-89-1 | IOELV      |           | 0,1                      |            |                           |                 |                                |          | 91/322/EEC |
| MT      | picric acid   | 88-89-1 | OELV       |           | 0,1                      |            |                           |                 |                                |          | CAP. 424   |

#### Notation

Ceiling-C  
STEL

Ceiling value is a limit value above which exposure should not occur  
Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA

Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

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### 8.2 Exposure controls

#### Individual protection measures (personal protective equipment)

##### Eye/face protection



Use safety goggle with side protection.

##### Skin protection



- **hand protection**

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374.

- **type of material**

NBR (Nitrile rubber)

- **material thickness**

>0,11 mm

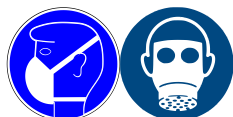
- **breakthrough times of the glove material**

>480 minutes (permeation: level 6)

- **other protection measures**

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

##### Respiratory protection



Respiratory protection necessary at: Aerosol or mist formation. Type: A (against organic gases and vapours with a boiling point of > 65 °C , colour code: Brown).

##### Environmental exposure controls

Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|  |                 |
|--|-----------------|
| Physical state   | liquid          |
| Colour   | red             |
| Odour  | odourless       |
| Melting point/freezing point                             | ~ 0 °C          |
| Boiling point or initial boiling point and boiling range | ~ 100 °C        |
| Flammability   | non-combustible |



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|   |   |
|---|---|
| Lower and upper explosion limit                     | not determined  |
| Flash point   | not determined  |
| Auto-ignition temperature                           | not determined  |
| Decomposition temperature                           | not relevant  |
| pH (value)  | 5 – 7 (20 °C)   |
| Kinematic viscosity                                 | not determined  |
| <u>Solubility(ies)</u>                              |   |
| Water solubility                                    | miscible in any proportion                                  |
| <u>Partition coefficient</u>                        |   |
| Partition coefficient n-octanol/water (log value):  | not relevant (inorganic)                                    |
| Vapour pressure                                     | not determined  |
| Density   | ~ 1 g/cm <sup>3</sup> at 20 °C                              |
| Relative vapour density                             | information on this property is not available               |
| Particle characteristics                            | not relevant (liquid)                                       |
| <u>Other safety parameters</u>                      |   |
| Oxidising properties                                | none  |
| <b>9.2 Other information</b>                        |   |
| Information with regard to physical hazard classes: | hazard classes acc. to GHS (physical hazards): not relevant |
| Other safety characteristics:                       |   |
| Miscibility   | completely miscible with water                              |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This material is not reactive under normal ambient conditions.

### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### 10.3 Possibility of hazardous reactions

**Violent reaction with:** strong oxidiser, Aluminium, Ammonia (NH<sub>3</sub>), Bases, Metals, Reducing agents

### 10.4 Conditions to avoid

Do not dry up the product.

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### 10.5 Incompatible materials

There is no additional information.

### 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

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

Test data are not available for the complete mixture.

#### Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### Classification according to GHS (1272/2008/EC, CLP)

This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

#### Acute toxicity

Shall not be classified as acutely toxic.

| Acute toxicity estimate (ATE) of components of the mixture |         |                       |             |
|--|---------|-----------------------|-------------|
| Name of substance  | CAS No  | Exposure route        | ATE         |
| Picric acid  | 88-89-1 | oral                  | 200 mg/kg   |
| Picric acid  | 88-89-1 | dermal                | 300 mg/kg   |
| Picric acid  | 88-89-1 | inhalation: dust/mist | 0,5 mg/l/4h |

| Acute toxicity of components of the mixture |         |                |          |           |         |
|---|---------|----------------|----------|-----------|---------|
| Name of substance                           | CAS No  | Exposure route | Endpoint | Value     | Species |
| Picric acid                                 | 88-89-1 | oral           | LD50     | 200 mg/kg | rat     |

#### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

#### Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

#### Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

#### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

#### Carcinogenicity

Shall not be classified as carcinogenic.

#### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

#### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

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### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

### Symptoms related to the physical, chemical and toxicological characteristics

#### • If swallowed

Data are not available.

#### • If in eyes

Data are not available.

#### • If inhaled

Data are not available.

#### • If on skin

Data are not available.

#### • Other information

none

### 11.2 Endocrine disrupting properties

None of the ingredients are listed.

### 11.3 Information on other hazards

There is no additional information.

## SECTION 12: Ecological information

### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

### Biodegradation

The methods for determining the biological degradability are not applicable to inorganic substances.

### 12.2 Process of degradability

Data are not available.

### 12.3 Bioaccumulative potential

Data are not available.

| Bioaccumulative potential of components of the mixture |           |     |         |          |
|--|-----------|-----|---------|----------|
| Name of substance                                      | CAS No    | BCF | Log KOW | BOD5/COD |
| Picric acid  | 88-89-1   |     | 1,33    |          |
| Acid fuchsin   | 3244-88-0 |     | -9,76   |          |

### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

Data are not available.

# Safety data sheet

according to Regulation (EC) No. 1907/2006 (REACH)



## Van Gieson's Solution for microscopy

article number: 3925

### 12.6 Endocrine disrupting properties

None of the ingredients are listed.

### 12.7 Other adverse effects

Data are not available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods



Consult the appropriate local waste disposal expert about waste disposal.

#### Sewage disposal-relevant information

Do not empty into drains.

### 13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Waste catalogue ordinance (Germany).

### 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

## SECTION 14: Transport information

- |  |   |
|--|---|
| 14.1 UN number or ID number  | not subject to transport regulations                                  |
| 14.2 UN proper shipping name   | not assigned  |
| 14.3 Transport hazard class(es)  | none  |
| 14.4 Packing group   | not assigned  |
| 14.5 Environmental hazards   | non-environmentally hazardous acc. to the dangerous goods regulations |
| 14.6 Special precautions for user  | There is no additional information.                                   |
| 14.7 Maritime transport in bulk according to IMO instruments   | The cargo is not intended to be carried in bulk.                      |
| 14.8 <u>Information for each of the UN Model Regulations</u>   |   |
| <b>Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional information</b> | Not subject to ADR, RID and ADN.                                      |
| <b>International Maritime Dangerous Goods Code (IMDG) - Additional information</b>                           | Not subject to IMDG.  |
| <b>International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information</b>                    | Not subject to ICAO-IATA.   |

### SECTION 15: Regulatory information

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

##### Relevant provisions of the European Union (EU)

##### Restrictions according to REACH, Annex XVII

| Dangerous substances with restrictions (REACH, Annex XVII) |   |        |             |    |
|--|---|--------|-------------|----|
| Name of substance  | Name acc. to inventory                          | CAS No | Restriction | No |
| Acid fuchsin   | substances in tattoo inks and permanent make-up |        | R75         | 75 |

##### Legend

- R75
- Shall not be placed on the market in mixtures for use for tattooing purposes, and mixtures containing any such substances shall not be used for tattooing purposes, after 4 January 2022 if the substance or substances in question is or are present in the following circumstances:
    - in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as carcinogen category 1A, 1B or 2, or germ cell mutagen category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight;
    - in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as reproductive toxicant category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight;
    - in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin sensitiser category 1, 1A or 1B, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight;
    - in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin corrosive category 1, 1A, 1B or 1C or skin irritant category 2, or as serious eye damage category 1 or eye irritant category 2, the substance is present in the mixture in a concentration equal to or greater than:
      - 0,1 % by weight, if the substance is used solely as a pH regulator;
      - 0,01 % by weight, in all other cases;
    - in the case of a substance listed in Annex II to Regulation (EC) No 1223/2009 (\*1), the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight;
    - in the case of a substance for which a condition of one or more of the following kinds is specified in column g (Product type, Body parts) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight:
      - "Rinse-off products";
      - "Not to be used in products applied on mucous membranes";
      - "Not to be used in eye products";
    - in the case of a substance for which a condition is specified in column h (Maximum concentration in ready for use preparation) or column i (Other) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration, or in some other way, that does not accord with the condition specified in that column;
    - in the case of a substance listed in Appendix 13 to this Annex, the substance is present in the mixture in a concentration equal to or greater than the concentration limit specified for that substance in that Appendix.
  - For the purposes of this entry use of a mixture "for tattooing purposes" means injection or introduction of the mixture into a person's skin, mucous membrane or eyeball, by any process or procedure (including procedures commonly referred to as permanent make-up, cosmetic tattooing, micro-blading and micro-pigmentation), with the aim of making a mark or design on his or her body.
  - If a substance not listed in Appendix 13 falls within more than one of points (a) to (g) of paragraph 1, the strictest concentration limit laid down in the points in question shall apply to that substance. If a substance listed in Appendix 13 also falls within one or more of points (a) to (g) of paragraph 1, the concentration limit laid down in point (h) of paragraph 1 shall apply to that substance.
  - By way of derogation, paragraph 1 shall not apply to the following substances until 4 January 2023:
    - Pigment Blue 15:3 (CI 74160, EC No 205-685-1, CAS No 147-14-8);
    - Pigment Green 7 (CI 74260, EC No 215-524-7, CAS No 1328-53-6).
  - If Part 3 of Annex VI to Regulation (EC) No 1272/2008 is amended after 4 January 2021 to classify or re-classify a substance such that the substance then becomes caught by point (a), (b), (c) or (d) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the date of application of that new or revised classification is after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect on the date of application of that new or revised classification.
  - If Annex II or Annex IV to Regulation (EC) No 1223/2009 is amended after 4 January 2021 to list or change the listing of a substance such that the substance then becomes caught by point (e), (f) or (g) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the amendment takes effect after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect from the date falling 18 months after entry into force of the act by which that amendment was made.
  - Suppliers placing a mixture on the market for use for tattooing purposes shall ensure that, after 4 January 2022, the mixture is marked with the following information:
    - the statement "Mixture for use in tattoos or permanent make-up";
    - a reference number to uniquely identify the batch;
    - the list of ingredients in accordance with the nomenclature established in the glossary of common ingredient names pursuant to Article 33 of Regulation (EC) No 1223/2009, or in the absence of a common ingredient name, the IUPAC name. In the absence of a common ingredient name or IUPAC name, the CAS and EC number. Ingredients shall be listed in descending order by weight or volume of the ingredients at the time of formulation. "Ingredient" means any substance added during the process of formulation and present in the mixture for use for tattooing purposes. Impurities shall not be regarded as ingredients. If the name of a substance, used as ingredient within the meaning of

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### Legend

this entry, is already required to be stated on the label in accordance with Regulation (EC) No 1272/2008, that ingredient does not need to be marked in accordance with this Regulation;  
(d) the additional statement "pH regulator" for substances falling under point (d)(i) of paragraph 1;  
(e) the statement "Contains nickel. Can cause allergic reactions." if the mixture contains nickel below the concentration limit specified in Appendix 13;  
(f) the statement "Contains chromium (VI). Can cause allergic reactions." if the mixture contains chromium (VI) below the concentration limit specified in Appendix 13;  
(g) safety instructions for use insofar as they are not already required to be stated on the label by Regulation (EC) No 1272/2008.

The information shall be clearly visible, easily legible and marked in a way that is indelible.

The information shall be written in the official language(s) of the Member State(s) where the mixture is placed on the market, unless the Member State(s) concerned provide(s) otherwise.

Where necessary because of the size of the package, the information listed in the first subparagraph, except for point (a), shall be included instead in the instructions for use.

Before using a mixture for tattooing purposes, the person using the mixture shall provide the person undergoing the procedure with the information marked on the package or included in the instructions for use pursuant to this paragraph.

8. Mixtures that do not contain the statement "Mixture for use in tattoos or permanent make-up" shall not be used for tattooing purposes.

9. This entry does not apply to substances that are gases at temperature of 20 °C and pressure of 101,3 kPa, or generate a vapour pressure of more than 300 kPa at temperature of 50 °C, with the exception of formaldehyde (CAS No 50-00-0, EC No 200-001-8).

10. This entry does not apply to the placing on the market of a mixture for use for tattooing purposes, or to the use of a mixture for tattooing purposes, when placed on the market exclusively as a medical device or an accessory to a medical device, within the meaning of Regulation (EU) 2017/745, or when used exclusively as a medical device or an accessory to a medical device, within the same meaning. Where the placing on the market or use may not be exclusively as a medical device or an accessory to a medical device, the requirements of Regulation (EU) 2017/745 and of this Regulation shall apply cumulatively.

### List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list

None of the ingredients are listed.

### Seveso Directive

| 2012/18/EU (Seveso III) |                                       |   |       |
|-------------------------|---------------------------------------|---|-------|
| No                      | Dangerous substance/hazard categories | Qualifying quantity (tonnes) for the application of lower and upper-tier requirements | Notes |
|                         | not assigned                          |   |       |

### Deco-Paint Directive

|             |                |
|-------------|----------------|
| VOC content | 0 %<br>, 0 g/l |
|-------------|----------------|

### Industrial Emissions Directive (IED)

|   |       |
|---|-------|
| VOC content                                 | 0 %   |
| VOC content<br>Water content was discounted | 0 g/l |

### Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

### Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

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### Water Framework Directive (WFD)

#### List of pollutants (WFD)

| Name of substance | Name acc. to inventory     | CAS No | Listed in | Remarks |
|-------------------|----------------------------|--------|-----------|---------|
| Acid fuchsin      | Metals and their compounds |        | A)        |         |

#### Legend

A) Indicative list of the main pollutants

### Regulation on the marketing and use of explosives precursors

none of the ingredients are listed

### Regulation on drug precursors

none of the ingredients are listed

### Regulation on substances that deplete the ozone layer (ODS)

none of the ingredients are listed

### Regulation concerning the export and import of hazardous chemicals (PIC)

none of the ingredients are listed

### Regulation on persistent organic pollutants (POP)

none of the ingredients are listed

### Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

### National inventories

| Country | Inventory  | Status                         |
|---------|------------|--------------------------------|
| AU      | AICS       | all ingredients are listed     |
| CA      | DSL        | all ingredients are listed     |
| CN      | IECSC      | all ingredients are listed     |
| EU      | ECSI       | all ingredients are listed     |
| EU      | REACH Reg. | all ingredients are listed     |
| JP      | CSCL-ENCS  | all ingredients are listed     |
| KR      | KECI       | not all ingredients are listed |
| MX      | INSQ       | not all ingredients are listed |
| NZ      | NZIoC      | all ingredients are listed     |
| PH      | PICCS      | all ingredients are listed     |
| TW      | TCSI       | all ingredients are listed     |
| US      | TSCA       | all ingredients are listed     |

#### Legend

AICS Australian Inventory of Chemical Substances  
CSCL-ENCS List of Existing and New Chemical Substances (CSCL-ENCS)  
DSL Domestic Substances List (DSL)  
ECSI EC Substance Inventory (EINECS, ELINCS, NLP)  
IECSC Inventory of Existing Chemical Substances Produced or Imported in China  
INSQ National Inventory of Chemical Substances  
KECI Korea Existing Chemicals Inventory  
NZIoC New Zealand Inventory of Chemicals

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### Legend

|            |   |
|------------|---|
| PICCS      | Philippine Inventory of Chemicals and Chemical Substances (PICCS) |
| REACH Reg. | REACH registered substances                                       |
| TCSI       | Taiwan Chemical Substance Inventory                               |
| TSCA       | Toxic Substance Control Act                                       |

## 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information

### Indication of changes (revised safety data sheet)

Alignment to regulation: Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU

Restructuring: section 9, section 14

| Section | Former entry (text/value)                                      | Actual entry (text/value)  | Safety-relevant |
|---------|--|--|-----------------|
| 2.1     | Classification according to Regulation (EC) No 1272/2008 (CLP) | Classification according to Regulation (EC) No 1272/2008 (CLP);<br>This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC. | yes             |
| 2.1     | Supplemental hazard information                                |  | yes             |
| 2.1     |  | Supplemental hazard information:<br>change in the listing (table)  | yes             |
| 2.2     | Signal word:<br>not required                                   |  | yes             |
| 2.2     | Precautionary statements                                       |  | yes             |
| 2.2     | Precautionary statements - storage                             |  | yes             |
| 2.2     |  | Precautionary statements - storage:<br>change in the listing (table)   | yes             |
| 2.3     | Other hazards:<br>There is no additional information.          | Other hazards  | yes             |
| 2.3     |  | Results of PBT and vPvB assessment:<br>This mixture does not contain any substances that are assessed to be a PBT or a vPvB.   | yes             |

### Abbreviations and acronyms

| Abbr.      | Descriptions of used abbreviations  |
|------------|---|
| 91/322/EEC | Commission Directive on establishing indicative limit values by implementing Council Directive 80/1107/EEC  |
| Acute Tox. | Acute toxicity  |
| ADN        | Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways) |
| ADR        | Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)   |
| ATE        | Acute Toxicity Estimate   |
| BCF        | Bioconcentration factor   |



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| Abbr.       | Descriptions of used abbreviations  |
|-------------|---|
| BOD         | Biochemical Oxygen Demand   |
| CAP. 424    | Occupational Health and Safety Authority Act (CAP. 424)   |
| CAS         | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)  |
| Ceiling-C   | Ceiling value   |
| CLP         | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures  |
| COD         | Chemical oxygen demand  |
| DGR         | Dangerous Goods Regulations (see IATA/DGR)  |
| EC No       | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union) |
| EINECS      | European Inventory of Existing Commercial Chemical Substances   |
| ELINCS      | European List of Notified Chemical Substances   |
| Expl.       | Explosive material  |
| Eye Dam.    | Seriously damaging to the eye   |
| Eye Irrit.  | Irritant to the eye   |
| GHS         | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations   |
| IATA        | International Air Transport Association   |
| IATA/DGR    | Dangerous Goods Regulations (DGR) for the air transport (IATA)  |
| ICAO        | International Civil Aviation Organization   |
| IMDG        | International Maritime Dangerous Goods Code   |
| index No    | The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008  |
| IOELV       | Indicative occupational exposure limit value  |
| LD50        | Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval  |
| log KOW     | n-Octanol/water   |
| NLP         | No-Longer Polymer   |
| PBT         | Persistent, Bioaccumulative and Toxic   |
| ppm         | Parts per million   |
| REACH       | Registration, Evaluation, Authorisation and Restriction of Chemicals  |
| RID         | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)           |
| Skin Corr.  | Corrosive to skin   |
| Skin Irrit. | Irritant to skin  |
| STEL        | Short-term exposure limit   |
| SVHC        | Substance of Very High Concern  |
| TWA         | Time-weighted average   |
| Unst. Expl. | Unstable explosive material   |

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| Abbr. | Descriptions of used abbreviations       |
|-------|--|
| VOC   | Volatile Organic Compounds               |
| vPvB  | Very Persistent and very Bioaccumulative |

### Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.  
Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### Classification procedure

Physical and chemical properties. The classification is based on tested mixture.

Health hazards. Environmental hazards. The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text                                     |
|------|--|
| H201 | Explosive; mass explosion hazard.        |
| H301 | Toxic if swallowed.                      |
| H311 | Toxic in contact with skin.              |
| H314 | Causes severe skin burns and eye damage. |
| H318 | Causes serious eye damage.               |
| H331 | Toxic if inhaled.                        |

### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

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## Resorcinol-Fuchsin solution according to Weigert for microscopy

article number: **X877**  
Version: **4.0 en**  
Replaces version of: 19.07.2019  
Version: (3)

date of compilation: 10.08.2015  
Revision: 25.10.2021

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

### 1.1 Product identifier

|                                 |  |
|---------------------------------|--|
| Identification of the substance | <b>Resorcinol-Fuchsin solution according to Weigert for microscopy</b> |
| Article number                  | X877   |
| Registration number (REACH)     | not relevant (mixture)   |

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

|                           |   |
|---------------------------|---|
| Relevant identified uses: | Laboratory chemical<br>Laboratory and analytical use  |
| Uses advised against:     | Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household). |

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

Carl Roth GmbH + Co KG  
Schoemperlenstr. 3-5  
D-76185 Karlsruhe  
Germany

**Telephone:**+49 (0) 721 - 56 06 0  
**Telefax:** +49 (0) 721 - 56 06 149  
**e-mail:** sicherheit@carlroth.de  
**Website:** www.carlroth.de

Competent person responsible for the safety data sheet: :Department Health, Safety and Environment

**e-mail (competent person):** **sicherheit@carlroth.de**

### 1.4 Emergency telephone number

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

| Section | Hazard class                                     | Cat-egory | Hazard class and category | Hazard statement |
|---------|--|-----------|---------------------------|------------------|
| 2.6     | Flammable liquid                                 | 2         | Flam. Liq. 2              | H225             |
| 2.16    | Substance or mixture corrosive to metals         | 1         | Met. Corr. 1              | H290             |
| 3.10    | Acute toxicity (oral)                            | 4         | Acute Tox. 4              | H302             |
| 3.1D    | Acute toxicity (dermal)                          | 4         | Acute Tox. 4              | H312             |
| 3.1I    | Acute toxicity (inhal.)                          | 4         | Acute Tox. 4              | H332             |
| 3.3     | Serious eye damage/eye irritation                | 1         | Eye Dam. 1                | H318             |
| 3.8     | Specific target organ toxicity - single exposure | 1         | STOT SE 1                 | H370             |

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| Section | Hazard class  | Cat-egory | Hazard class and category | Hazard statement |
|---------|---|-----------|---------------------------|------------------|
| 3.8D    | Specific target organ toxicity - single exposure (narcotic effects, drowsiness) | 3         | STOT SE 3                 | H336             |

For full text of abbreviations: see SECTION 16

### The most important adverse physicochemical, human health and environmental effects

Immediate effects can be expected after short-term exposure. The product is combustible and can be ignited by potential ignition sources.

## 2.2 Label elements

### Labelling according to Regulation (EC) No 1272/2008 (CLP)

#### Signal word

**Danger**

#### Pictograms

GHS02, GHS05,  
GHS07, GHS08



#### Hazard statements

|                |  |
|----------------|--|
| H225           | Highly flammable liquid and vapour                       |
| H290           | May be corrosive to metals                               |
| H302+H312+H332 | Harmful if swallowed, in contact with skin or if inhaled |
| H318           | Causes serious eye damage                                |
| H336           | May cause drowsiness or dizziness                        |
| H370           | Causes damage to organs (eye)                            |

#### Precautionary statements

##### Precautionary statements - prevention

|      |  |
|------|--|
| P210 | Keep away from heat, sparks, open flames, hot surfaces. No smoking |
| P260 | Do not breathe mist/vapours  |
| P280 | Wear protective gloves/eye protection                              |

##### Precautionary statements - response

|                |   |
|----------------|---|
| P302+P352      | IF ON SKIN: Wash with plenty of water   |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing |
| P308+P311      | IF exposed or concerned: Call a POISON CENTER/doctor  |

#### Hazardous ingredients for labelling:

Methanol, 2-Propanol, Iron(III) chloride hexahydrate, Hydrochloric acid .... %

#### Labelling of packages where the contents do not exceed 125 ml

Signal word: **Danger**

Symbol(s)



H318 Causes serious eye damage.  
H370 Causes damage to organs (eye).

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P260 Do not breathe mist/vapours.  
P280 Wear protective gloves/eye protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308+P311 IF exposed or concerned: Call a POISON CENTER/doctor.  
contains: Methanol, 2-Propanol, Iron(III) chloride hexahydrate, Hydrochloric acid .... %

### 2.3 Other hazards

#### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### Endocrine disrupting properties

The mixture contains substance(s) with an endocrine disrupting potential.








## SECTION 3: Composition/information on ingredients

### 3.1 Substances

not relevant (mixture)

### 3.2 Mixtures

#### Description of the mixture

| Name of substance        | Identifier  | Wt%        | Classification acc. to GHS   | Pictograms   | Notes                   |
|--------------------------|---|------------|--|--|-------------------------|
| 2-Propanol               | CAS No<br>67-63-0<br><br>EC No<br>200-661-7<br><br>Index No<br>603-117-00-0<br><br>REACH Reg. No<br>01-2119457558-<br>25-xxxx   | 50 – < 100 | Flam. Liq. 2 / H225<br>Eye Irrit. 2 / H319<br>STOT SE 3 / H336   |    | GHS-HC                  |
| Methanol                 | CAS No<br>67-56-1<br><br>EC No<br>200-659-6<br><br>Index No<br>603-001-00-X<br><br>REACH Reg. No<br>01-2119433307-<br>44-xxxx   | 10 – < 25  | Flam. Liq. 2 / H225<br>Acute Tox. 3 / H301<br>Acute Tox. 3 / H311<br>Acute Tox. 3 / H331<br>STOT SE 1 / H370 |  <br> | GHS-HC<br>IOELV         |
| Hydrochloric acid .... % | CAS No<br>7647-01-0<br><br>EC No<br>231-595-7<br><br>Index No<br>017-002-01-X<br><br>REACH Reg. No<br>01-2119484862-<br>27-xxxx | 2 – < 10   | Met. Corr. 1 / H290<br>Skin Corr. 1B / H314<br>Eye Dam. 1 / H318<br>STOT SE 3 / H335                         |    | B(a)<br>GHS-HC<br>IOELV |

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| Name of substance              | Identifier   | Wt%   | Classification acc. to GHS   | Pictograms | Notes           |
|--------------------------------|--|-------|--|------------|-----------------|
| Iron(III) chloride hexahydrate | CAS No<br>10025-77-1<br><br>EC No<br>600-047-2   | 1 – 3 | Met. Corr. 1 / H290<br>Acute Tox. 4 / H302<br>Skin Irrit. 2 / H315<br>Eye Dam. 1 / H318      |            |                 |
| Resorcinol                     | CAS No<br>108-46-3<br><br>EC No<br>203-585-2<br><br>Index No<br>604-010-00-1<br><br>REACH Reg. No<br>01-2119480136-40-xxxx | < 3   | Acute Tox. 4 / H302<br>Skin Irrit. 2 / H315<br>Eye Irrit. 2 / H319<br>Aquatic Acute 1 / H400 |            | GHS-HC<br>IOELV |
| Fuchsine                       | CAS No<br>632-99-5<br><br>EC No<br>211-189-6   | < 1   | Carc. 2 / H351   |            | IARC: 2B        |

### Notes

B(a): The classification refers to an aqueous solution

GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/2008/EC, Annex VI)

IARC: IARC group 2B: possibly carcinogenic to humans (International Agency for Research on Cancer)

2B:

IOELV: Substance with a community indicative occupational exposure limit value

| Name of substance              | Identifier  | Specific Conc. Limits  | M-Factors | ATE                                 | Exposure route                       |
|--------------------------------|---|--|-----------|-------------------------------------|--------------------------------------|
| Methanol                       | CAS No<br>67-56-1<br><br>EC No<br>200-659-6<br><br>Index No<br>603-001-00-X   | STOT SE 1; H370: C ≥ 10 %<br>STOT SE 2; H371: 3 % ≤ C < 10 %   | -         | 100 mg/kg<br>300 mg/kg<br>3 mg/l/4h | oral<br>dermal<br>inhalation: vapour |
| Hydrochloric acid .... %       | CAS No<br>7647-01-0<br><br>EC No<br>231-595-7<br><br>Index No<br>017-002-01-X | Met. Corr. 1; H290: C ≥ 0,1 %<br>Skin Corr. 1B; H314: C ≥ 25 %<br>Skin Irrit. 2; H315: 10 % ≤ C < 25 %<br>Eye Dam. 1; H318: C ≥ 25 %<br>Eye Irrit. 2; H319: 10 % ≤ C < 25 %<br>STOT SE 3; H335: C ≥ 10 % | -         | -                                   |                                      |
| Iron(III) chloride hexahydrate | CAS No<br>10025-77-1<br><br>EC No<br>600-047-2                                | -  | -         | 500 mg/kg                           | oral                                 |
| Resorcinol                     | CAS No<br>108-46-3<br><br>EC No<br>203-585-2<br><br>Index No<br>604-010-00-1  | -  | -         | 510 mg/kg                           | oral                                 |

For full text of abbreviations: see SECTION 16

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### SECTION 4: First aid measures

#### 4.1 Description of first aid measures



##### General notes

Take off contaminated clothing.

##### Following inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

##### Following skin contact

Rinse skin with water/shower. In all cases of doubt, or when symptoms persist, seek medical advice.

##### Following 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.

##### Following ingestion

Rinse mouth with water (only if the person is conscious). Call a doctor.

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

Drowsiness, Dizziness, Vertigo, Narcosis, Nausea, Vomiting, Risk of serious damage to eyes

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

none

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media



##### Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings  
water spray, alcohol resistant foam, dry extinguishing powder, BC-powder, carbon dioxide (CO<sub>2</sub>)

##### Unsuitable extinguishing media

water jet

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

Combustible. In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture. Solvent vapours are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

##### Hazardous combustion products

In case of fire may be liberated: Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

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### SECTION 6: Accidental release measures

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



##### For non-emergency personnel

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Do not breathe vapour/spray. Avoidance of ignition sources.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Danger of explosion.

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

##### Advice on how to contain a spill

Covering of drains.

##### Advice on how to clean up a spill

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

##### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Provision of sufficient ventilation. Handle and open container with care. When not in use, keep containers tightly closed.

##### Measures to prevent fire as well as aerosol and dust generation



Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharge. Due to danger of explosion, prevent leakage

of vapours into cellars, flues and ditches.

##### Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs. When using do not smoke.

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

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



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### Incompatible substances or mixtures

Observe hints for combined storage.

### Consideration of other advice:

Ground/bond container and receiving equipment.

### Ventilation requirements

Keep any substance that emits harmful vapours or gases in a place that allows these to be permanently extracted. Use local and general ventilation.

### Specific designs for storage rooms or vessels

Recommended storage temperature: 15 – 25 °C

### 7.3 Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### National limit values

#### Occupational exposure limit values (Workplace Exposure Limits)

| Country | Name of agent     | CAS No    | Identifier | TWA [ppm] | TWA [mg/m <sup>3</sup> ] | STEL [ppm] | STEL [mg/m <sup>3</sup> ] | Ceiling-C [ppm] | Ceiling-C [mg/m <sup>3</sup> ] | Notation | Source     |
|---------|-------------------|-----------|------------|-----------|--------------------------|------------|---------------------------|-----------------|--------------------------------|----------|------------|
| EU      | resorcinol        | 108-46-3  | IOELV      | 10        | 45                       |            |                           |                 |                                |          | 2006/15/EC |
| EU      | methanol          | 67-56-1   | IOELV      | 200       | 260                      |            |                           |                 |                                |          | 2006/15/EC |
| EU      | hydrogen chloride | 7647-01-0 | IOELV      | 5         | 8                        | 10         | 15                        |                 |                                |          | 2000/39/EC |
| MT      | resorcinol        | 108-46-3  | OELV       | 10        | 45                       |            |                           |                 |                                |          | CAP. 424   |
| MT      | methanol          | 67-56-1   | OELV       | 200       | 260                      |            |                           |                 |                                |          | CAP. 424   |
| MT      | hydrogen chloride | 7647-01-0 | OELV       | 5         | 8                        | 10         | 15                        |                 |                                |          | CAP. 424   |

#### Notation

Ceiling-C  
STEL

Ceiling value is a limit value above which exposure should not occur  
Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA

Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

#### Relevant DNELs of components of the mixture

| Name of substance | CAS No  | Endpoint | Threshold level       | Protection goal, route of exposure | Used in           | Exposure time              |
|-------------------|---------|----------|-----------------------|------------------------------------|-------------------|----------------------------|
| 2-Propanol        | 67-63-0 | DNEL     | 500 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| 2-Propanol        | 67-63-0 | DNEL     | 888 mg/kg bw/day      | human, dermal                      | worker (industry) | chronic - systemic effects |
| Methanol          | 67-56-1 | DNEL     | 130 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | chronic - systemic effects |

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| Relevant DNELs of components of the mixture |            |           |                         |                                    |                   |                            |
|---|------------|-----------|-------------------------|------------------------------------|-------------------|----------------------------|
| Name of substance                           | CAS No     | End-point | Threshold level         | Protection goal, route of exposure | Used in           | Exposure time              |
| Methanol                                    | 67-56-1    | DNEL      | 130 mg/m <sup>3</sup>   | human, inhalatory                  | worker (industry) | acute - systemic effects   |
| Methanol                                    | 67-56-1    | DNEL      | 130 mg/m <sup>3</sup>   | human, inhalatory                  | worker (industry) | chronic - local effects    |
| Methanol                                    | 67-56-1    | DNEL      | 130 mg/m <sup>3</sup>   | human, inhalatory                  | worker (industry) | acute - local effects      |
| Methanol                                    | 67-56-1    | DNEL      | 20 mg/kg bw/day         | human, dermal                      | worker (industry) | chronic - systemic effects |
| Methanol                                    | 67-56-1    | DNEL      | 20 mg/kg bw/day         | human, dermal                      | worker (industry) | acute - systemic effects   |
| Hydrochloric acid ... %                     | 7647-01-0  | DNEL      | 8 mg/m <sup>3</sup>     | human, inhalatory                  | worker (industry) | chronic - local effects    |
| Hydrochloric acid ... %                     | 7647-01-0  | DNEL      | 15 mg/m <sup>3</sup>    | human, inhalatory                  | worker (industry) | acute - local effects      |
| Iron(III) chloride hexahydrate              | 10025-77-1 | DNEL      | 2,8 mg/kg bw/day        | human, dermal                      | worker (industry) | chronic - systemic effects |
| Resorcinol                                  | 108-46-3   | DNEL      | 5,6 mg/m <sup>3</sup>   | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| Resorcinol                                  | 108-46-3   | DNEL      | 132,8 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | chronic - local effects    |
| Resorcinol                                  | 108-46-3   | DNEL      | 40 mg/kg bw/day         | human, dermal                      | worker (industry) | chronic - systemic effects |

| Relevant PNECs of components of the mixture |         |           |                 |                       |                              |                              |
|---|---------|-----------|-----------------|-----------------------|------------------------------|------------------------------|
| Name of substance                           | CAS No  | End-point | Threshold level | Organism              | Environmental compartment    | Exposure time                |
| 2-Propanol                                  | 67-63-0 | PNEC      | 140,9 mg/l      | aquatic organisms     | freshwater                   | short-term (single instance) |
| 2-Propanol                                  | 67-63-0 | PNEC      | 140,9 mg/l      | aquatic organisms     | marine water                 | short-term (single instance) |
| 2-Propanol                                  | 67-63-0 | PNEC      | 2.251 mg/l      | aquatic organisms     | sewage treatment plant (STP) | short-term (single instance) |
| 2-Propanol                                  | 67-63-0 | PNEC      | 552 mg/kg       | aquatic organisms     | freshwater sediment          | short-term (single instance) |
| 2-Propanol                                  | 67-63-0 | PNEC      | 552 mg/kg       | aquatic organisms     | marine sediment              | short-term (single instance) |
| 2-Propanol                                  | 67-63-0 | PNEC      | 28 mg/kg        | terrestrial organisms | soil                         | short-term (single instance) |
| Methanol                                    | 67-56-1 | PNEC      | 20,8 mg/l       | aquatic organisms     | freshwater                   | short-term (single instance) |
| Methanol                                    | 67-56-1 | PNEC      | 2,08 mg/l       | aquatic organisms     | marine water                 | short-term (single instance) |
| Methanol                                    | 67-56-1 | PNEC      | 100 mg/l        | aquatic organisms     | sewage treatment plant (STP) | short-term (single instance) |

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| Relevant PNECs of components of the mixture |          |           |                 |                       |                              |                              |
|---|----------|-----------|-----------------|-----------------------|------------------------------|------------------------------|
| Name of substance                           | CAS No   | End-point | Threshold level | Organism              | Environmental compartment    | Exposure time                |
| Methanol                                    | 67-56-1  | PNEC      | 77 mg/kg        | aquatic organisms     | freshwater sediment          | short-term (single instance) |
| Methanol                                    | 67-56-1  | PNEC      | 7,7 mg/kg       | aquatic organisms     | marine sediment              | short-term (single instance) |
| Methanol                                    | 67-56-1  | PNEC      | 100 mg/kg       | terrestrial organisms | soil                         | short-term (single instance) |
| Resorcinol                                  | 108-46-3 | PNEC      | 0,017 mg/l      | aquatic organisms     | freshwater                   | short-term (single instance) |
| Resorcinol                                  | 108-46-3 | PNEC      | 0,002 mg/l      | aquatic organisms     | marine water                 | short-term (single instance) |
| Resorcinol                                  | 108-46-3 | PNEC      | 0,79 mg/l       | aquatic organisms     | sewage treatment plant (STP) | short-term (single instance) |
| Resorcinol                                  | 108-46-3 | PNEC      | 0,08 mg/kg      | aquatic organisms     | freshwater sediment          | short-term (single instance) |
| Resorcinol                                  | 108-46-3 | PNEC      | 0,008 mg/kg     | aquatic organisms     | marine sediment              | short-term (single instance) |
| Resorcinol                                  | 108-46-3 | PNEC      | 10 mg/kg        | terrestrial organisms | soil                         | short-term (single instance) |

## 8.2 Exposure controls

### Individual protection measures (personal protective equipment)

#### Eye/face protection



Use safety goggles with side protection.

#### Skin protection



#### • hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

#### • type of material

NBR (Nitrile rubber)

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- **material thickness**

0,4 mm

- **breakthrough times of the glove material**

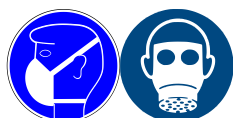
>480 minutes (permeation: level 6)

- **other protection measures**

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Flame-retardant protective clothing.

### Respiratory protection



Respiratory protection necessary at: Aerosol or mist formation. Type: A (against organic gases and vapours with a boiling point of > 65 °C , colour code: Brown).

### Environmental exposure controls

Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|  |  |
|--|--|
| Physical state   | liquid   |
| Colour   | violet   |
| Odour  | like: - alcohol  |
| Melting point/freezing point                             | not determined   |
| Boiling point or initial boiling point and boiling range | >65 °C   |
| Flammability   | flammable liquid in accordance with GHS criteria                   |
| Lower and upper explosion limit                          | 2 vol% (LEL) - 13,4 vol% (UEL)<br>data apply to the main component |
| Flash point  | 12 °C (data apply to the main component)                           |
| Auto-ignition temperature                                | 425 °C (data apply to the main component)                          |
| Decomposition temperature                                | not relevant   |
| pH (value)   | <3 (20 °C)   |
| Kinematic viscosity                                      | not determined   |
| <u>Solubility(ies)</u>                                   |  |
| Water solubility   | miscible in any proportion   |
| <u>Partition coefficient</u>                             |  |
| Partition coefficient n-octanol/water (log value):       | this information is not available                                  |

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|                                |   |
|--------------------------------|---|
| Vapour pressure                | 43 hPa at 20 °C<br>data apply to the main component |
| Density                        | ~ 0,9 g/cm <sup>3</sup> at 20 °C                    |
| Relative vapour density        | information on this property is not available       |
| Particle characteristics       | not relevant (liquid)                               |
| <u>Other safety parameters</u> |   |
| Oxidising properties           | none  |

### 9.2 Other information

Information with regard to physical hazard classes:

|                                      |   |
|--------------------------------------|---|
| Corrosive to metals                  | category 1: corrosive to metals                                       |
| Other safety characteristics:        |   |
| Miscibility                          | completely miscible with water  |
| Temperature class (EU, acc. to ATEX) | T2<br>Maximum permissible surface temperature on the equipment: 300°C |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The mixture contains reactive substance(s). Risk of ignition. Substance or mixture corrosive to metals. Vapours may form explosive mixtures with air.

#### If heated

Risk of ignition.

### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### 10.3 Possibility of hazardous reactions

**Violent reaction with:** Aldehydes, Alkali metals, Nitric acid, strong oxidiser,  
**Danger of explosion:** Chlorates, Hydrogen peroxide, Nitro compound

### 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### 10.5 Incompatible materials

plastic and rubber, different metals

### 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

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### SECTION 11: Toxicological information

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

Test data are not available for the complete mixture.

##### Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

##### Classification according to GHS (1272/2008/EC, CLP)

##### Acute toxicity

Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled.

##### Acute toxicity estimate (ATE) of components of the mixture

| Name of substance              | CAS No     | Exposure route     | ATE       |
|--------------------------------|------------|--------------------|-----------|
| Methanol                       | 67-56-1    | oral               | 100 mg/kg |
| Methanol                       | 67-56-1    | dermal             | 300 mg/kg |
| Methanol                       | 67-56-1    | inhalation: vapour | 3 mg/l/4h |
| Iron(III) chloride hexahydrate | 10025-77-1 | oral               | 500 mg/kg |
| Resorcinol                     | 108-46-3   | oral               | 510 mg/kg |

##### Acute toxicity of components of the mixture

| Name of substance              | CAS No     | Exposure route     | Endpoint | Value        | Species |
|--------------------------------|------------|--------------------|----------|--------------|---------|
| 2-Propanol                     | 67-63-0    | inhalation: vapour | LC50     | 37,5 mg/l/4h | rat     |
| 2-Propanol                     | 67-63-0    | oral               | LD50     | 5.045 mg/kg  | rat     |
| 2-Propanol                     | 67-63-0    | dermal             | LD50     | 12.800 mg/kg | rabbit  |
| Methanol                       | 67-56-1    | inhalation: vapour | LC50     | 131 mg/l/4h  | rat     |
| Methanol                       | 67-56-1    | oral               | LD50     | 5.628 mg/kg  | rat     |
| Methanol                       | 67-56-1    | oral               | LDLo     | 143 mg/kg    | human   |
| Methanol                       | 67-56-1    | dermal             | LD50     | 15.800 mg/kg | rabbit  |
| Iron(III) chloride hexahydrate | 10025-77-1 | oral               | LD50     | 500 mg/kg    | rat     |
| Iron(III) chloride hexahydrate | 10025-77-1 | dermal             | LD50     | >2.000 mg/kg | rat     |
| Resorcinol                     | 108-46-3   | oral               | LD50     | 510 mg/kg    | rat     |
| Resorcinol                     | 108-46-3   | dermal             | LD50     | 2.830 mg/kg  | rabbit  |
| Fuchsine                       | 632-99-5   | oral               | LD50     | >2.000 mg/kg | monkey  |

##### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

##### Serious eye damage/eye irritation

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Causes serious eye damage.

### Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

### Carcinogenicity

Shall not be classified as carcinogenic.

### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

### Specific target organ toxicity - single exposure

Causes damage to organs (eye). May cause drowsiness or dizziness.

| Hazard category | Target organ | Exposure route |
|-----------------|--------------|----------------|
| 1               | eye          | if exposed     |

### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

### Symptoms related to the physical, chemical and toxicological characteristics

#### • If swallowed

vomiting, nausea

#### • If in eyes

Causes serious eye damage, risk of blindness

#### • If inhaled

vertigo, dizziness, headache, fatigue, narcosis

#### • If on skin

Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation), risk of absorption via the skin

#### • Other information

none

## 11.2 Endocrine disrupting properties

The mixture contains substance(s) with an endocrine disrupting potential.

| Endocrine disrupting chemicals (EDC) |          |                   |                       |                   |
|--------------------------------------|----------|-------------------|-----------------------|-------------------|
| Name of substance                    | CAS No   | Combined category | Human health category | Wildlife category |
| Resorcinol                           | 108-46-3 | CAT1              | CAT1                  | CAT3              |

#### Legend

CAT1  
CAT3

Category 1 - evidence of endocrine disruption in at least one species using intact animals  
Category 3 - no evidence of endocrine disruption or no data available

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### 11.3 Information on other hazards

There is no additional information.

## SECTION 12: Ecological information

### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

| Aquatic toxicity (acute) of components of the mixture |          |          |             |                     |               |
|---|----------|----------|-------------|---------------------|---------------|
| Name of substance                                     | CAS No   | Endpoint | Value       | Species             | Exposure time |
| 2-Propanol  | 67-63-0  | LC50     | 9.640 mg/l  | Pimephales promelas | 96 h          |
| Methanol  | 67-56-1  | LC50     | 15.400 mg/l | fish                | 96 h          |
| Methanol  | 67-56-1  | ErC50    | 22.000 mg/l | algae               | 96 h          |
| Resorcinol  | 108-46-3 | LC50     | 26,8 mg/l   | fish                | 96 h          |
| Resorcinol  | 108-46-3 | ErC50    | >97 mg/l    | algae               | 72 h          |
| Fuchsine  | 632-99-5 | LC50     | 6,8 mg/l    | fish                | 24 h          |

| Aquatic toxicity (chronic) of components of the mixture |          |          |              |                       |               |
|---|----------|----------|--------------|-----------------------|---------------|
| Name of substance                                       | CAS No   | Endpoint | Value        | Species               | Exposure time |
| 2-Propanol  | 67-63-0  | LC50     | >10.000 mg/l | aquatic invertebrates | 24 h          |
| Resorcinol  | 108-46-3 | EC50     | 260 mg/l     | fish                  | 60 d          |
| Resorcinol  | 108-46-3 | EC50     | >172 µg/l    | aquatic invertebrates | 21 d          |

### Biodegradation

Data are not available.

### 12.2 Process of degradability

| Degradability of components of the mixture |          |                  |                  |      |                                   |        |
|--|----------|------------------|------------------|------|-----------------------------------|--------|
| Name of substance                          | CAS No   | Process          | Degradation rate | Time | Method                            | Source |
| 2-Propanol                                 | 67-63-0  | biotic/abiotic   | 95 %             | 21 d | modifizierter OECD Screening Test |        |
| 2-Propanol                                 | 67-63-0  | oxygen depletion | 53 %             | 5 d  |                                   | ECHA   |
| Methanol                                   | 67-56-1  | biotic/abiotic   | 99 %             | 30 d |                                   |        |
| Methanol                                   | 67-56-1  | oxygen depletion | 69 %             | 5 d  |                                   | ECHA   |
| Resorcinol                                 | 108-46-3 | biotic/abiotic   | 66,7 %           | 14 d |                                   |        |

### 12.3 Bioaccumulative potential

Data are not available.



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| Bioaccumulative potential of components of the mixture |          |      |                              |          |
|--|----------|------|------------------------------|----------|
| Name of substance                                      | CAS No   | BCF  | Log KOW                      | BOD5/COD |
| 2-Propanol   | 67-63-0  |      | 0,05                         |          |
| Methanol   | 67-56-1  |      | -0,77                        |          |
| Resorcinol   | 108-46-3 | 3,16 | 0,8 (20 °C)                  |          |
| Fuchsin  | 632-99-5 |      | 1,632 (pH value: 6,3, 25 °C) |          |

### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

Data are not available.

### 12.6 Endocrine disrupting properties

The mixture contains substance(s) with an endocrine disrupting potential.

| Endocrine disrupting chemicals (EDC) |          |                   |                       |                   |
|--------------------------------------|----------|-------------------|-----------------------|-------------------|
| Name of substance                    | CAS No   | Combined category | Human health category | Wildlife category |
| Resorcinol                           | 108-46-3 | CAT1              | CAT1                  | CAT3              |

#### Legend

CAT1 Category 1 - evidence of endocrine disruption in at least one species using intact animals  
CAT3 Category 3 - no evidence of endocrine disruption or no data available

### 12.7 Other adverse effects

Data are not available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Sewage disposal-relevant information

Do not empty into drains.

#### Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used.

### 13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Waste catalogue ordinance (Germany).

### 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

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### SECTION 14: Transport information

#### 14.1 UN number or ID number

|             |         |
|-------------|---------|
| ADR/RID/ADN | UN 2924 |
| IMDG-Code   | UN 2924 |
| ICAO-TI     | UN 2924 |

#### 14.2 UN proper shipping name

|  |                                      |
|--|--------------------------------------|
| ADR/RID/ADN                            | FLAMMABLE LIQUID, CORROSIVE, N.O.S.  |
| IMDG-Code                              | FLAMMABLE LIQUID, CORROSIVE, N.O.S.  |
| ICAO-TI                                | Flammable liquid, corrosive, n.o.s.  |
| Technical name (hazardous ingredients) | 2-Propanol, Hydrochloric acid .... % |

#### 14.3 Transport hazard class(es)

|             |       |
|-------------|-------|
| ADR/RID/ADN | 3 (8) |
| IMDG-Code   | 3 (8) |
| ICAO-TI     | 3 (8) |

#### 14.4 Packing group

|             |    |
|-------------|----|
| ADR/RID/ADN | II |
| IMDG-Code   | II |
| ICAO-TI     | II |

#### 14.5 Environmental hazards

non-environmentally hazardous acc. to the dangerous goods regulations

#### 14.6 Special precautions for user



Provisions for dangerous goods (ADR) should be complied within the premises.

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

The cargo is not intended to be carried in bulk.

#### 14.8 Information for each of the UN Model Regulations

##### Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional information

|   |  |
|---|--|
| Proper shipping name  | FLAMMABLE LIQUID, CORROSIVE, N.O.S.  |
| Particulars in the transport document   | UN2924, FLAMMABLE LIQUID, CORROSIVE, N.O.S., (contains: 2-Propanol, Hydrochloric acid .... %), 3 (8), II, (D/E)<br>Special provision 640not relevant |
| Classification code   | FC   |
| Danger label(s)   | 3+8  |
|   |  |
| Special provisions (SP)   | 274  |
| Excepted quantities (EQ)  | E2   |

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|                               |     |
|-------------------------------|-----|
| Limited quantities (LQ)       | 1 L |
| Transport category (TC)       | 2   |
| Tunnel restriction code (TRC) | D/E |
| Hazard identification No      | 338 |

### International Maritime Dangerous Goods Code (IMDG) - Additional information

|  |  |
|--|--|
| Proper shipping name                     | FLAMMABLE LIQUID, CORROSIVE, N.O.S.  |
| Particulars in the shipper's declaration | UN2924, FLAMMABLE LIQUID, CORROSIVE, N.O.S., (contains: 2-Propanol, Hydrochloric acid ... %), 3 (8), II, 12°C c.c. |
| Marine pollutant                         | -  |
| Danger label(s)                          | 3+8  |



|                          |          |
|--------------------------|----------|
| Special provisions (SP)  | 274      |
| Excepted quantities (EQ) | E2       |
| Limited quantities (LQ)  | 1 L      |
| EmS                      | F-E, S-C |
| Stowage category         | B        |

### International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

|  |   |
|--|---|
| Proper shipping name                     | Flammable liquid, corrosive, n.o.s.   |
| Particulars in the shipper's declaration | UN2924, Flammable liquid, corrosive, n.o.s., (contains: 2-Propanol, Hydrochloric acid ... %), 3 (8), II |
| Danger label(s)                          | 3+8   |



|                          |       |
|--------------------------|-------|
| Special provisions (SP)  | A3    |
| Excepted quantities (EQ) | E2    |
| Limited quantities (LQ)  | 0,5 L |

## SECTION 15: Regulatory information

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

#### Relevant provisions of the European Union (EU)

#### Restrictions according to REACH, Annex XVII

| Dangerous substances with restrictions (REACH, Annex XVII) |  |        |             |    |
|--|--|--------|-------------|----|
| Name of substance  | Name acc. to inventory   | CAS No | Restriction | No |
| Resorcinol-Fuchsin solution according to Weigert           | this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC |        | R3          | 3  |

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| Dangerous substances with restrictions (REACH, Annex XVII) |   |         |             |    |
|--|---|---------|-------------|----|
| Name of substance  | Name acc. to inventory                          | CAS No  | Restriction | No |
| Iron(III) chloride hexahydrate                             | substances in tattoo inks and permanent make-up |         | R75         | 75 |
| Resorcinol   | substances in tattoo inks and permanent make-up |         | R75         | 75 |
| Fuchsine   | substances in tattoo inks and permanent make-up |         | R75         | 75 |
| Methanol   | methanol  | 67-56-1 | R69         | 69 |
| Methanol   | flammable / pyrophoric                          |         | R40         | 40 |
| 2-Propanol   | flammable / pyrophoric                          |         | R40         | 40 |
| 2-Propanol   | substances in tattoo inks and permanent make-up |         | R75         | 75 |
| Hydrochloric acid .... %                                   | substances in tattoo inks and permanent make-up |         | R75         | 75 |

### Legend

- R3
1. Shall not be used in:
    - ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
    - tricks and jokes,
    - games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
  2. Articles not complying with paragraph 1 shall not be placed on the market.
  3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:
    - can be used as fuel in decorative oil lamps for supply to the general public, and
    - present an aspiration hazard and are labelled with H304.
  4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).
  5. Without prejudice to the implementation of other Union provisions relating to the classification, labelling and packaging of substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:
    - (a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil – or even sucking the wick of lamps – may lead to life-threatening lung damage";
    - (b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter fluid may lead to life threatening lung damage";
    - (c) lamps oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.;
- R40
1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:
    - metallic glitter intended mainly for decoration,
    - artificial snow and frost,
    - 'whoopie' cushions,
    - silly string aerosols,
    - imitation excrement,
    - horns for parties,
    - decorative flakes and foams,
    - artificial cobwebs,
    - stink bombs.
  2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with:  
'For professional users only'.
  3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/324/EEC (2).
  4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.
- R69
- Shall not be placed on the market to the general public after 9 May 2019 in windscreen washing or defrosting fluids, in a concentration equal to or greater than 0,6 % by weight.

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### Legend

- R75
1. Shall not be placed on the market in mixtures for use for tattooing purposes, and mixtures containing any such substances shall not be used for tattooing purposes, after 4 January 2022 if the substance or substances in question is or are present in the following circumstances:
    - (a) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as carcinogen category 1A, 1B or 2, or germ cell mutagen category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight;
    - (b) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as reproductive toxicant category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight;
    - (c) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin sensitiser category 1, 1A or 1B, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight;
    - (d) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin corrosive category 1, 1A, 1B or 1C or skin irritant category 2, or as serious eye damage category 1 or eye irritant category 2, the substance is present in the mixture in a concentration equal to or greater than:
      - (i) 0,1 % by weight, if the substance is used solely as a pH regulator;
      - (ii) 0,01 % by weight, in all other cases;
    - (e) in the case of a substance listed in Annex II to Regulation (EC) No 1223/2009 (\*1), the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight;
    - (f) in the case of a substance for which a condition of one or more of the following kinds is specified in column g (Product type, Body parts) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight:
      - (i) "Rinse-off products";
      - (ii) "Not to be used in products applied on mucous membranes";
      - (iii) "Not to be used in eye products";
    - (g) in the case of a substance for which a condition is specified in column h (Maximum concentration in ready for use preparation) or column i (Other) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration, or in some other way, that does not accord with the condition specified in that column;
    - (h) in the case of a substance listed in Appendix 13 to this Annex, the substance is present in the mixture in a concentration equal to or greater than the concentration limit specified for that substance in that Appendix.
  2. For the purposes of this entry use of a mixture "for tattooing purposes" means injection or introduction of the mixture into a person's skin, mucous membrane or eyeball, by any process or procedure (including procedures commonly referred to as permanent make-up, cosmetic tattooing, micro-blading and micro-pigmentation), with the aim of making a mark or design on his or her body.
  3. If a substance not listed in Appendix 13 falls within more than one of points (a) to (g) of paragraph 1, the strictest concentration limit laid down in the points in question shall apply to that substance. If a substance listed in Appendix 13 also falls within one or more of points (a) to (g) of paragraph 1, the concentration limit laid down in point (h) of paragraph 1 shall apply to that substance.
  4. By way of derogation, paragraph 1 shall not apply to the following substances until 4 January 2023:
    - (a) Pigment Blue 15:3 (CI 74160, EC No 205-685-1, CAS No 147-14-8);
    - (b) Pigment Green 7 (CI 74260, EC No 215-524-7, CAS No 1328-53-6).
  5. If Part 3 of Annex VI to Regulation (EC) No 1272/2008 is amended after 4 January 2021 to classify or re-classify a substance such that the substance then becomes caught by point (a), (b), (c) or (d) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the date of application of that new or revised classification is after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect on the date of application of that new or revised classification.
  6. If Annex II or Annex IV to Regulation (EC) No 1223/2009 is amended after 4 January 2021 to list or change the listing of a substance such that the substance then becomes caught by point (e), (f) or (g) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the amendment takes effect after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect from the date falling 18 months after entry into force of the act by which that amendment was made.
  7. Suppliers placing a mixture on the market for use for tattooing purposes shall ensure that, after 4 January 2022, the mixture is marked with the following information:
    - (a) the statement "Mixture for use in tattoos or permanent make-up";
    - (b) a reference number to uniquely identify the batch;
    - (c) the list of ingredients in accordance with the nomenclature established in the glossary of common ingredient names pursuant to Article 33 of Regulation (EC) No 1223/2009, or in the absence of a common ingredient name, the IUPAC name. In the absence of a common ingredient name or IUPAC name, the CAS and EC number. Ingredients shall be listed in descending order by weight or volume of the ingredients at the time of formulation. "Ingredient" means any substance added during the process of formulation and present in the mixture for use for tattooing purposes. Impurities shall not be regarded as ingredients. If the name of a substance, used as ingredient within the meaning of this entry, is already required to be stated on the label in accordance with Regulation (EC) No 1272/2008, that ingredient does not need to be marked in accordance with this Regulation;
    - (d) the additional statement "pH regulator" for substances falling under point (d)(i) of paragraph 1;
    - (e) the statement "Contains nickel. Can cause allergic reactions." if the mixture contains nickel below the concentration limit specified in Appendix 13;
    - (f) the statement "Contains chromium (VI). Can cause allergic reactions." if the mixture contains chromium (VI) below the concentration limit specified in Appendix 13;
    - (g) safety instructions for use insofar as they are not already required to be stated on the label by Regulation (EC) No 1272/2008.The information shall be clearly visible, easily legible and marked in a way that is indelible. The information shall be written in the official language(s) of the Member State(s) where the mixture is placed on the market, unless the Member State(s) concerned provide(s) otherwise. Where necessary because of the size of the package, the information listed in the first subparagraph, except for point (a), shall be included instead in the instructions for use. Before using a mixture for tattooing purposes, the person using the mixture shall provide the person undergoing the procedure with the information marked on the package or included in the instructions for use pursuant to this paragraph.
  8. Mixtures that do not contain the statement "Mixture for use in tattoos or permanent make-up" shall not be used for tattooing purposes.

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9. This entry does not apply to substances that are gases at temperature of 20 °C and pressure of 101,3 kPa, or generate a vapour pressure of more than 300 kPa at temperature of 50 °C, with the exception of formaldehyde (CAS No 50-00-0, EC No 200-001-8).

10. This entry does not apply to the placing on the market of a mixture for use for tattooing purposes, or to the use of a mixture for tattooing purposes, when placed on the market exclusively as a medical device or an accessory to a medical device, within the meaning of Regulation (EU) 2017/745, or when used exclusively as a medical device or an accessory to a medical device, within the same meaning. Where the placing on the market or use may not be exclusively as a medical device or an accessory to a medical device, the requirements of Regulation (EU) 2017/745 and of this Regulation shall apply cumulatively.

### List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list

None of the ingredients are listed.

### Seveso Directive

| 2012/18/EU (Seveso III) |                                       |   |       |       |
|-------------------------|---------------------------------------|---|-------|-------|
| No                      | Dangerous substance/hazard categories | Qualifying quantity (tonnes) for the application of lower and upper-tier requirements |       | Notes |
| 22                      | methanol                              | 500   | 5.000 |       |

### Deco-Paint Directive

|             |                       |
|-------------|-----------------------|
| VOC content | 91,2 %<br>, 820,8 g/l |
|-------------|-----------------------|

### Industrial Emissions Directive (IED)

|             |           |
|-------------|-----------|
| VOC content | 91,2 %    |
| VOC content | 820,8 g/l |

### Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

### Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

### Water Framework Directive (WFD)

| List of pollutants (WFD)       |   |        |           |         |
|--------------------------------|---|--------|-----------|---------|
| Name of substance              | Name acc. to inventory  | CAS No | Listed in | Remarks |
| Iron(III) chloride hexahydrate | Metals and their compounds  |        | A)        |         |
| Resorcinol                     | Substances and preparations, or the breakdown products of such, which have been proved to possess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine-related functions in or via the aquatic environment |        | A)        |         |
| Fuchsine                       | Organohalogen compounds and substances which may form such compounds in the aquatic environment   |        | A)        |         |

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| List of pollutants (WFD) |   |        |           |         |
|--------------------------|---|--------|-----------|---------|
| Name of substance        | Name acc. to inventory  | CAS No | Listed in | Remarks |
| Fuch sine                | Substances and preparations, or the breakdown products of such, which have been proved to possess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine-related functions in or via the aquatic environment |        | A)        |         |
| Methanol                 | Substances and preparations, or the breakdown products of such, which have been proved to possess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine-related functions in or via the aquatic environment |        | A)        |         |
| 2-Propanol               | Substances and preparations, or the breakdown products of such, which have been proved to possess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine-related functions in or via the aquatic environment |        | A)        |         |

### Legend

A) Indicative list of the main pollutants

### Regulation on the marketing and use of explosives precursors

none of the ingredients are listed

### Regulation on drug precursors

| Name of substance        | CAS No    | Classification | CN Code    | Threshold level |
|--------------------------|-----------|----------------|------------|-----------------|
| Hydrochloric acid .... % | 7647-01-0 | Category 3     | 2806 10 00 |                 |

### Regulation on substances that deplete the ozone layer (ODS)

none of the ingredients are listed

### Regulation concerning the export and import of hazardous chemicals (PIC)

none of the ingredients are listed

### Regulation on persistent organic pollutants (POP)

none of the ingredients are listed

### Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

### UN Convention against Illicit Traffic in Narcotic Drugs and Psychotropic Substances

| Name of substance        | CAS No    | Listed in | HS code |
|--------------------------|-----------|-----------|---------|
| Hydrochloric acid .... % | 7647-01-0 | Table II  | 2806.10 |

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### National inventories

| Country | Inventory  | Status                         |
|---------|------------|--------------------------------|
| AU      | AICS       | all ingredients are listed     |
| CA      | DSL        | not all ingredients are listed |
| CN      | IECSC      | all ingredients are listed     |
| EU      | ECSI       | not all ingredients are listed |
| EU      | REACH Reg. | all ingredients are listed     |
| JP      | CSCL-ENCS  | not all ingredients are listed |
| JP      | ISHA-ENCS  | not all ingredients are listed |
| KR      | KECI       | not all ingredients are listed |
| MX      | INSQ       | not all ingredients are listed |
| NZ      | NZIoC      | all ingredients are listed     |
| PH      | PICCS      | all ingredients are listed     |
| TR      | CICR       | not all ingredients are listed |
| TW      | TCSI       | all ingredients are listed     |
| US      | TSCA       | not all ingredients are listed |

#### Legend

|            |   |
|------------|---|
| AICS       | Australian Inventory of Chemical Substances                             |
| CICR       | Chemical Inventory and Control Regulation                               |
| CSCL-ENCS  | List of Existing and New Chemical Substances (CSCL-ENCS)                |
| DSL        | Domestic Substances List (DSL)  |
| ECSI       | EC Substance Inventory (EINECS, ELINCS, NLP)                            |
| IECSC      | Inventory of Existing Chemical Substances Produced or Imported in China |
| INSQ       | National Inventory of Chemical Substances                               |
| ISHA-ENCS  | Inventory of Existing and New Chemical Substances (ISHA-ENCS)           |
| KECI       | Korea Existing Chemicals Inventory                                      |
| NZIoC      | New Zealand Inventory of Chemicals                                      |
| PICCS      | Philippine Inventory of Chemicals and Chemical Substances (PICCS)       |
| REACH Reg. | REACH registered substances   |
| TCSI       | Taiwan Chemical Substance Inventory                                     |
| TSCA       | Toxic Substance Control Act   |

### 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information

### Indication of changes (revised safety data sheet)

Alignment to regulation: Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU

Restructuring: section 9, section 14

| Section | Former entry (text/value) | Actual entry (text/value)  | Safety-relevant |
|---------|---------------------------|--|-----------------|
| 2.1     |                           | Classification according to Regulation (EC) No 1272/2008 (CLP):<br>change in the listing (table) | yes             |



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| Section | Former entry (text/value)  | Actual entry (text/value)  | Safety-relevant |
|---------|--|--|-----------------|
| 2.1     | The most important adverse physicochemical, human health and environmental effects:<br>Narcotic effects. | The most important adverse physicochemical, human health and environmental effects:<br>Immediate effects can be expected after short-term exposure. The product is combustible and can be ignited by potential ignition sources. | yes             |
| 2.2     |  | Hazard statements:<br>change in the listing (table)  | yes             |
| 2.2     |  | Precautionary statements - prevention:<br>change in the listing (table)  | yes             |
| 2.2     |  | Precautionary statements - response:<br>change in the listing (table)  | yes             |
| 2.2     | Precautionary statements - storage   |  | yes             |
| 2.2     |  | Precautionary statements - storage:<br>change in the listing (table)   | yes             |
| 2.2     | Hazardous ingredients for labelling:<br>Methanol, 2-Propanol, Iron(III) chloride                         | Hazardous ingredients for labelling:<br>Methanol, 2-Propanol, Iron(III) chloride hexahydrate, Hydrochloric acid .... %   | yes             |
| 2.2     |  | Labelling of packages where the contents do not exceed 125 ml:<br>change in the listing (table)  | yes             |
| 2.2     |  | Labelling of packages where the contents do not exceed 125 ml:<br>change in the listing (table)  | yes             |
| 2.2     | contains:<br>Methanol, 2-Propanol, Iron(III) chloride  | contains:<br>Methanol, 2-Propanol, Iron(III) chloride hexahydrate, Hydrochloric acid .... %  | yes             |
| 2.3     | Other hazards:<br>There is no additional information.  | Other hazards  | yes             |
| 2.3     |  | Results of PBT and vPvB assessment:<br>This mixture does not contain any substances that are assessed to be a PBT or a vPvB.   | yes             |
| 2.3     |  | Endocrine disrupting properties:<br>The mixture contains substance(s) with an endocrine disrupting potential.  | yes             |

### Abbreviations and acronyms

| Abbr.       | Descriptions of used abbreviations  |
|-------------|---|
| 2000/39/EC  | Commission Directive establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC   |
| 2006/15/EC  | Commission Directive establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC                    |
| Acute Tox.  | Acute toxicity  |
| ADN         | Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways) |
| ADR         | Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)   |
| ADR/RID/ADN | Agreements concerning the International Carriage of Dangerous Goods by Road/Rail/Inland Waterways (ADR/RID/ADN)   |

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| Abbr.         | Descriptions of used abbreviations  |
|---------------|---|
| Aquatic Acute | Hazardous to the aquatic environment - acute hazard   |
| ATE           | Acute Toxicity Estimate   |
| BCF           | Bioconcentration factor   |
| BOD           | Biochemical Oxygen Demand   |
| CAP. 424      | Occupational Health and Safety Authority Act (CAP. 424)   |
| Carc.         | Carcinogenicity   |
| CAS           | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)  |
| Ceiling-C     | Ceiling value   |
| CLP           | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures  |
| CN Code       | Combined Nomenclature   |
| COD           | Chemical oxygen demand  |
| DGR           | Dangerous Goods Regulations (see IATA/DGR)  |
| DNEL          | Derived No-Effect Level   |
| EC50          | Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval  |
| EC No         | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union) |
| EINECS        | European Inventory of Existing Commercial Chemical Substances   |
| ELINCS        | European List of Notified Chemical Substances   |
| EmS           | Emergency Schedule  |
| ErC50         | ≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control            |
| Eye Dam.      | Seriously damaging to the eye   |
| Eye Irrit.    | Irritant to the eye   |
| Flam. Liq.    | Flammable liquid  |
| GHS           | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations   |
| HS            | Harmonized Commodity Description and Coding System (Harmonized System, drawn up by the World Customs Organisation)  |
| IARC          | International Agency for Research on Cancer   |
| IATA          | International Air Transport Association   |
| IATA/DGR      | Dangerous Goods Regulations (DGR) for the air transport (IATA)  |
| ICAO          | International Civil Aviation Organization   |
| ICAO-TI       | Technical instructions for the safe transport of dangerous goods by air   |
| IMDG          | International Maritime Dangerous Goods Code   |
| IMDG-Code     | International Maritime Dangerous Goods Code   |
| index No      | The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008  |

# Safety data sheet

according to Regulation (EC) No. 1907/2006 (REACH)



## Resorcinol-Fuchsin solution according to Weigert for microscopy

article number: **X877**

| Abbr.       | Descriptions of used abbreviations  |
|-------------|---|
| IOELV       | Indicative occupational exposure limit value  |
| LC50        | Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval                       |
| LD50        | Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval  |
| LEL         | Lower explosion limit (LEL)   |
| log KOW     | n-Octanol/water   |
| Met. Corr.  | Substance or mixture corrosive to metals  |
| NLP         | No-Longer Polymer   |
| PBT         | Persistent, Bioaccumulative and Toxic   |
| PNEC        | Predicted No-Effect Concentration   |
| ppm         | Parts per million   |
| REACH       | Registration, Evaluation, Authorisation and Restriction of Chemicals  |
| RID         | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail) |
| Skin Corr.  | Corrosive to skin   |
| Skin Irrit. | Irritant to skin  |
| STEL        | Short-term exposure limit   |
| STOT SE     | Specific target organ toxicity - single exposure  |
| SVHC        | Substance of Very High Concern  |
| TWA         | Time-weighted average   |
| UEL         | Upper explosion limit (UEL)   |
| VOC         | Volatile Organic Compounds  |
| vPvB        | Very Persistent and very Bioaccumulative  |

### Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### Classification procedure

Physical and chemical properties. The classification is based on tested mixture.

Health hazards. Environmental hazards. The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### List of relevant phrases (code and full text as stated in section 2 and 3)

# Safety data sheet

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## Resorcinol-Fuchsin solution according to Weigert for microscopy

article number: **X877**

| Code | Text                                     |
|------|--|
| H225 | Highly flammable liquid and vapour.      |
| H290 | May be corrosive to metals.              |
| H301 | Toxic if swallowed.                      |
| H302 | Harmful if swallowed.                    |
| H311 | Toxic in contact with skin.              |
| H312 | Harmful in contact with skin.            |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation.                  |
| H318 | Causes serious eye damage.               |
| H319 | Causes serious eye irritation.           |
| H331 | Toxic if inhaled.                        |
| H332 | Harmful if inhaled.                      |
| H335 | May cause respiratory irritation.        |
| H336 | May cause drowsiness or dizziness.       |
| H351 | Suspected of causing cancer.             |
| H370 | Causes damage to organs (eye).           |
| H400 | Very toxic to aquatic life.              |

### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.