








# FLYLEAF

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

Date of compilation: 2021-10-25

### 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 – 20  |
| Hematoxylin solution B acc. to Weigert           | Article number X907 | 1                | Met. Corr. 1 / H290<br>Skin Irrit. 2 / H315<br>Eye Dam. 1 / H318  |   | 21 – 35 |
| Van Gieson's Solution                            | Article number 3925 | 1                |   |  | 36 – 47 |
| Resorcinol-Fuchsin solution according to Weigert | Article number X877 | 1                | Flam. Liq. 2 / H225<br>Met. Corr. 1 / H290<br>Skin Irrit. 2 / H315<br>Eye Dam. 1 / H318<br>STOT SE 1 / H370<br>STOT SE 3 / H336 |  <br>  | 48 – 67 |

# Article: 8275

## 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                   |
| 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 |
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray                   |

**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 |
| P370+P378      | In case of fire: Use sand, carbon dioxide or powder extinguisher for extinction   |

**Precautionary statements - storage**

|           |   |
|-----------|---|
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed |
| P403+P235 | Store in a well-ventilated place. Keep cool                     |

### 3 Transport information

#### 3.1 UN number

|                |         |
|----------------|---------|
| <b>UN RTDG</b> | UN 2924 |
| IMDG-Code      | UN 2924 |
| ICAO-TI        | UN 2924 |





#### 3.2 UN proper shipping name

|                |                                     |
|----------------|-------------------------------------|
| <b>UN RTDG</b> | FLAMMABLE LIQUID, CORROSIVE, N.O.S. |
| IMDG-Code      | FLAMMABLE LIQUID, CORROSIVE, N.O.S. |
| ICAO-TI        | Flammable liquid, corrosive, n.o.s. |
| Technical name | 2-Propanol, Iron(III) chloride      |

#### 3.3 Transport hazard class(es)



|                |       |
|----------------|-------|
| <b>UN RTDG</b> | 3 (8) |
| IMDG-Code      | 3 (8) |

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|            |   |  |
|------------|---|--|
|            | ICAO-TI   | 3 (8)  |
| <b>3.4</b> | <b>Packing group</b>  |  |
|            | <b>UN RTDG</b>  | 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>   |  |
|            | There is no additional information.   |  |
| <b>3.7</b> | <b>Transport in bulk according to Annex II of MARPOL and the IBC Code</b>   |  |
|            | The cargo is not intended to be carried in bulk.  |  |
| <b>3.8</b> | <b><u>Information for each of the UN Model Regulations</u></b>  |  |
|            | <b>Transport information</b>  | <b>National regulations</b>  |
|            | <b>Additional information(UN RTDG)</b>  |  |
|            | <b>UN number</b>  | 2924   |
|            | <b>Proper shipping name</b>   | FLAMMABLE LIQUID, CORROSIVE, N.O.S.  |
|            | <b>Class</b>  | 3  |
|            | <b>Subsidiary risk(s)</b>   | 8  |
|            | <b>Packing group</b>  | II   |
|            | <b>Danger label(s)</b>  | 3+8  |
|            |   |  |
|            | <b>Special provisions (SP)</b>  | 274<br>UN RTDG   |
|            | <b>Excepted quantities (EQ)</b>   | E2<br>UN RTDG  |
|            | <b>Limited quantities (LQ)</b>  | 1 L<br>UN RTDG   |
|            | <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  | -  |
|            | <b>Danger label(s)</b>  | 3+8  |
|            |   |  |
|            | Special provisions (SP)   | 274  |
|            | Excepted quantities (EQ)  | E2   |
|            | Limited quantities (LQ)   | 1 L  |
|            | EmS   | F-E, S-C   |
|            | Stowage category  | B  |

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### 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., (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 Safety data sheet

acc. to Safe Work Australia - Code of Practice



## Hematoxylin solution A acc. to Weigert for microscopy

article number: **X906**  
Version: **GHS 3.0 en**  
Replaces version of: 2019-07-16  
Version: (GHS 2)

date of compilation: 2016-12-08  
Revision: 2021-10-14

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

### 1.1 Product identifier

Identification of the substance **Hematoxylin solution A acc. to Weigert** for microscopy  
Article number X906

### 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

| Name   | Street          | Postal code/city   | Telephone | Website |
|--|-----------------|--------------------|-----------|---------|
| NSW Poisons Information Centre<br>Childrens Hospital | Hawkesbury Road | 2145 Westmead, NSW | 131126    |         |

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification acc. to GHS

| Section | Hazard class  | Category | 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

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## Hematoxylin solution A acc. to Weigert for microscopy

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### 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

### Labelling

#### 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/sparks/open flames/hot surfaces. - No smoking

##### 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 |
| P312           | Call a POISON CENTER or doctor/physician if you feel unwell   |
| P370+P378      | In case of fire: Use sand, carbon dioxide or powder extinguisher for extinction   |

##### Precautionary statements - storage

|           |   |
|-----------|---|
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed |
| P403+P235 | Store in a well-ventilated place. Keep cool                     |

##### Precautionary statements - disposal

P501 Dispose of contents/container to industrial combustion plant

**Hazardous ingredients for labelling:** 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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## Hematoxylin solution A acc. to Weigert for microscopy

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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  | < 50 | Flam. Liq. 2 / H225<br>Eye Irrit. 2 / H319<br>STOT SE 3 / H336 |   |       |
| Hematoxylin       | CAS No<br>517-28-2 | < 5  | Eye Irrit. 2A / H319   |    |       |

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

## 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

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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.

## 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



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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)

| 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 |
|---------|---------------------------------|---------|------------|-----------|--------------------------|------------|---------------------------|-----------------|--------------------------------|----------|--------|
| AU      | isopropyl alcohol (propan-2-ol) | 67-63-0 | WES        | 400       | 983                      | 500        | 1,230                     |                 |                                |          | WES    |

#### 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 |

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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                |
| 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 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

0,3 mm

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

>480 minutes (permeation: level 6)

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### • 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                                   |
| Density  | ~ 0.9 g/cm <sup>3</sup> at 20 °C                 |
| Relative vapour density                                  | information on this property is not available    |

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Particle characteristics not relevant (liquid)

### Other safety parameters

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

## 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.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

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 acc. to GHS**

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### 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

#### • If in eyes

Causes serious eye irritation

#### • If inhaled

dizziness, fatigue, narcosis

#### • If on skin

Data are not available.

#### • Other information

none

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### 11.2 Endocrine disrupting properties

None of the ingredients are listed.

## 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   |

### 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.

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## Hematoxylin solution A acc. to Weigert for microscopy

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### 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

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

#### Relevant provisions relating to waste(Basel Convention)

#### Properties of waste which render it hazardous

H3 Flammable liquids

### 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

|           |            |
|-----------|------------|
| UN RTDG   | UN<br>1219 |
| IMDG-Code | UN 1219    |
| ICAO-TI   | UN 1219    |

### 14.2 UN proper shipping name

|           |             |
|-----------|-------------|
| UN RTDG   | ISOPROPANOL |
| IMDG-Code | ISOPROPANOL |
| ICAO-TI   | Isopropanol |

### 14.3 Transport hazard class(es)

|           |   |
|-----------|---|
| UN RTDG   | 3 |
| IMDG-Code | 3 |
| ICAO-TI   | 3 |

### 14.4 Packing group



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|   |   |
|---|---|
| <b>UN RTDG</b>  | 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>  | There is no additional information.                                   |
| <b>14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code</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 information National regulations Additional information (UN RTDG)</b>  |   |
| <b>UN number</b>  | 1219  |
| <b>Class</b>  | 3   |
| <b>Packing group</b>  | II  |
| <b>Danger label(s)</b>  | 3   |
|  |   |
| <b>Special provisions (SP)</b>  | -<br>UN RTDG  |
| <b>Excepted quantities (EQ)</b>   | E2<br>UN RTDG   |
| <b>Limited quantities (LQ)</b>  | 1 L<br>UN RTDG  |
| <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   |
|  |   |
| Special provisions (SP)   | -   |
| Excepted quantities (EQ)  | E2  |
| Limited quantities (LQ)   | 1 L   |
| EmS   | F-E, S-D  |
| Stowage category  | B   |



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### 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

There is no additional information.

#### National regulations(Australia)

##### Australian Inventory of Chemical Substances(AICS)

All ingredients are listed or exempt from listing.

#### 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)                           |

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### Legend

|            |   |
|------------|---|
| 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: Globally Harmonized System of Classification and Labelling of Chemicals ("Purple book").

Restructuring: section 9, section 14

| Section | Former entry (text/value)  | Actual entry (text/value)   | Safety-relevant |
|---------|--|---|-----------------|
| 2.1     |  | Classification acc. to GHS:<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     | Labelling of packages where the contents do not exceed 125 ml:<br>Signal word: Danger                    |   | 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>2-Propanol  |   | 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   |
|-----------|--|
| BCF       | Bioconcentration factor  |
| BOD       | Biochemical Oxygen Demand  |
| CAS       | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) |
| Ceiling-C | Ceiling value  |
| COD       | Chemical oxygen demand   |

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| Abbr.      | Descriptions of used abbreviations   |
|------------|--|
| 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 |
| 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  |
| 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  |
| 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  |
| MARPOL     | International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")  |
| NLP        | No-Longer Polymer  |
| PBT        | Persistent, Bioaccumulative and Toxic  |
| PNEC       | Predicted No-Effect Concentration  |
| ppm        | Parts per million  |
| STEL       | Short-term exposure limit  |
| STOT SE    | Specific target organ toxicity - single exposure   |
| TWA        | Time-weighted average  |
| UN RTDG    | UN Recommendations on the Transport of Dangerous Good  |
| vPvB       | Very Persistent and very Bioaccumulative   |
| WES        | Safe Work Australia: Workplace exposure standards for airborne contaminants  |

### Key literature references and sources for data

Safe Work Australia's Code of Practice for Labelling of Workplace Hazardous Chemicals (under WHS Regulations).

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UN Recommendations on the Transport of Dangerous Good. 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                                |
|------|-------------------------------------|
| 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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article number: **X907**  
Version: **GHS 3.0 en**  
Replaces version of: 2019-07-16  
Version: (GHS 2)

date of compilation: 2016-12-08  
Revision: 2021-10-14

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

### 1.1 Product identifier

Identification of the substance **Hematoxylin solution B acc. to Weigert** for microscopy  
Article number X907

### 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  
**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

| Name   | Street          | Postal code/city   | Telephone | Website |
|--|-----------------|--------------------|-----------|---------|
| NSW Poisons Information Centre<br>Childrens Hospital | Hawkesbury Road | 2145 Westmead, NSW | 131126    |         |

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification acc. to GHS

| Section | Hazard class                             | Category | Hazard class and category | Hazard statement |
|---------|--|----------|---------------------------|------------------|
| 2.16    | Substance or mixture corrosive to metals | 1        | Met. Corr. 1              | H290             |
| 3.2     | Skin corrosion/irritation                | 2        | Skin Irrit. 2             | H315             |
| 3.3     | Serious eye damage/eye irritation        | 1        | Eye Dam. 1                | H318             |

For full text of abbreviations: see SECTION 16

### 2.2 Label elements

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### Labelling

**Signal word**

**Danger**

**Pictograms**

GHS05



### Hazard statements

H290 May be corrosive to metals  
H315 Causes skin irritation  
H318 Causes serious eye damage

### Precautionary statements

#### Precautionary statements - prevention

P234 Keep only in original container  
P280 Wear protective gloves

#### Precautionary statements - response

P302+P352 IF ON SKIN: Wash with plenty of soap and 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  
P310 Immediately call a POISON CENTER or doctor/physician  
P321 Specific treatment (see on this label)  
P362+P364 Take off contaminated clothing and wash it before reuse  
P390 Absorb spillage to prevent material damage

#### Hazardous ingredients for labelling:

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

| Name of substance              | Identifier           | Wt%   | Classification acc. to GHS  | Pictograms | Notes |
|--------------------------------|----------------------|-------|---|------------|-------|
| Iron(III) chloride hexahydrate | CAS No<br>10025-77-1 | < 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  | < 2.5 | Met. Corr. 1 / H290<br>Skin Corr. 1 / H314<br>Eye Dam. 1 / H318<br>STOT SE 3 / H335     |            | B(a)  |

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### Notes

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

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 case of skin irritation, consult a physician.

#### 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, Irritation

### 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.

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### 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).

##### 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.



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### 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 |
|---------|---------------------------------------|-----------|------------|-----------|--------------------------|------------|---------------------------|-----------------|--------------------------------|----------|--------|
| AU      | hydrogen chloride (hydrochloric acid) | 7647-01-0 | WES        |           |                          |            |                           | 5               | 7.5                            |          | WES    |

##### Notation

Ceiling-C Ceiling value is a limit value above which exposure should not occur

STEL 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              |
|--------------------------------|------------|----------|----------------------|------------------------------------|-------------------|----------------------------|
| 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

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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

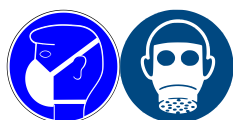
- **breakthrough times of the glove material**

>480 minutes (permeation: level 6)

- **other protection measures**

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

### Respiratory protection



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>                             |                            |

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---

|  |   |
|--|---|
| 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  |

### 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.

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**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

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 acc. to GHS**

**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 |

| 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**

Causes skin irritation.

**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**

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- **If swallowed**

irritant effects

- **If in eyes**

Causes serious eye damage, risk of blindness

- **If inhaled**

Data are not available.

- **If on skin**

causes skin irritation

- **Other information**

none

### 11.2 Endocrine disrupting properties

None of the ingredients are listed.

## 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

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Do not empty into drains.

### Waste treatment of containers/packagings

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

### Relevant provisions relating to waste(Basel Convention)

#### Properties of waste which render it hazardous

H8 Corrosives

### 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

|           |            |
|-----------|------------|
| UN RTDG   | UN<br>3264 |
| IMDG-Code | UN 3264    |
| ICAO-TI   | UN 3264    |

### 14.2 UN proper shipping name

|  |   |
|--|---|
| UN RTDG                                | 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<br>.... % |

### 14.3 Transport hazard class(es)

|           |   |
|-----------|---|
| UN RTDG   | 8 |
| IMDG-Code | 8 |
| ICAO-TI   | 8 |

### 14.4 Packing group

|           |     |
|-----------|-----|
| UN RTDG   | 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

There is no additional information.

### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

The cargo is not intended to be carried in bulk.

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

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### Transport information National regulations Additional information (UN RTDG)

|   |                     |
|---|---------------------|
| <b>UN number</b>  | 3264                |
| <b>Class</b>  | 8                   |
| <b>Packing group</b>  | III                 |
| <b>Danger label(s)</b>  | 8                   |
|  |                     |
| <b>Special provisions (SP)</b>  | 223, 274<br>UN RTDG |
| <b>Excepted quantities (EQ)</b>   | E1<br>UN RTDG       |
| <b>Limited quantities (LQ)</b>  | 5 L<br>UN RTDG      |

### 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 |

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### SECTION 15: Regulatory information

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

There is no additional information.

##### National regulations(Australia)

##### Australian Inventory of Chemical Substances(AICS)

All ingredients are listed or exempt from listing.

##### 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: Globally Harmonized System of Classification and Labelling of Chemicals ("Purple book").

Restructuring: section 9, section 14

| Section | Former entry (text/value)   | Actual entry (text/value)  | Safety-relevant |
|---------|---|--|-----------------|
| 2.1     |   | Classification acc. to GHS:<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 - prevention:<br>change in the listing (table)  | yes             |
| 2.2     |   | Precautionary statements - response:<br>change in the listing (table)  | yes             |
| 2.2     | Precautionary statements - disposal   |  | yes             |
| 2.2     |   | Precautionary statements - disposal:<br>change in the listing (table)  | yes             |
| 2.2     | Labelling of packages where the contents do not exceed 125 ml:<br>Signal word: Danger |  | 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   |  | 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             |
| 2.3     | 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

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| Abbr.       | Descriptions of used abbreviations   |
|-------------|--|
| Acute Tox.  | Acute toxicity   |
| ATE         | Acute Toxicity Estimate  |
| CAS         | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)                           |
| Ceiling-C   | Ceiling value  |
| DGR         | Dangerous Goods Regulations (see IATA/DGR)   |
| DNEL        | Derived No-Effect Level  |
| 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  |
| LD50        | Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval |
| MARPOL      | International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")                                |
| Met. Corr.  | Substance or mixture corrosive to metals   |
| NLP         | No-Longer Polymer  |
| PBT         | Persistent, Bioaccumulative and Toxic  |
| ppm         | Parts per million  |
| Skin Corr.  | Corrosive to skin  |
| Skin Irrit. | Irritant to skin   |
| STEL        | Short-term exposure limit  |
| STOT SE     | Specific target organ toxicity - single exposure   |
| TWA         | Time-weighted average  |
| UN RTDG     | UN Recommendations on the Transport of Dangerous Good  |
| vPvB        | Very Persistent and very Bioaccumulative   |
| WES         | Safe Work Australia: Workplace exposure standards for airborne contaminants  |

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### Key literature references and sources for data

Safe Work Australia's Code of Practice for Labelling of Workplace Hazardous Chemicals (under WHS Regulations).

UN Recommendations on the Transport of Dangerous Good. 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.

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## Van Gieson's Solution for microscopy

article number: **3925**  
Version: **GHS 2.0 en**  
Replaces version of: 2019-07-18  
Version: (GHS 1)

date of compilation: 2019-07-18  
Revision: 2021-10-15

## 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

### 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  
**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

| Name   | Street          | Postal code/city   | Telephone | Website |
|--|-----------------|--------------------|-----------|---------|
| NSW Poisons Information Centre<br>Childrens Hospital | Hawkesbury Road | 2145 Westmead, NSW | 131126    |         |

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification acc. to GHS

This mixture does not meet the criteria for classification.

### 2.2 Label elements

#### Labelling

not required

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### 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

| Name of substance | Identifier       | Wt%     | Classification acc. to GHS  | Pictograms | Notes |
|-------------------|------------------|---------|---|------------|-------|
| Picric acid       | CAS No 88-89-1   | 1 - < 5 | Expl. 1.1 / H201<br>Acute Tox. 3 / H301<br>Acute Tox. 3 / H311<br>Acute Tox. 3 / H331 |            |       |
| Acid fuchsin      | CAS No 3244-88-0 | < 0.5   | Skin Corr. 1C / H314<br>Eye Dam. 1 / H318   |            |       |

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

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

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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

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.

#### 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.

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### 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)

| Cou ntr y | Name of agent                       | CAS No  | Identi- fier | TW A [pp m] | TWA [mg/ m <sup>3</sup> ] | STE L [pp m] | STEL [mg/ m <sup>3</sup> ] | Ceil- ing- C [pp m] | Ceil- ing- C [mg/ m <sup>3</sup> ] | Nota- tion | Source |
|-----------|-------------------------------------|---------|--------------|-------------|---------------------------|--------------|----------------------------|---------------------|------------------------------------|------------|--------|
| AU        | picric acid (2,4,6- trinitrophenol) | 88-89-1 | WES          |             | 0.1                       |              |                            |                     |                                    |            | WES    |

##### 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)

#### 8.2 Exposure controls

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

##### Eye/face protection



Use safety goggle with side protection.

##### Skin protection



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### • 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

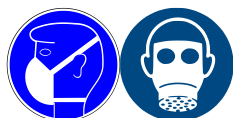
### • breakthrough times of the glove material

>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            |
| 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>                             |                            |



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|  |   |
|--|---|
| Partition coefficient n-octanol/water (log value): | not relevant (inorganic)                      |
| Vapour pressure                                    | not determined                                |
| Density  | $\sim 1 \text{ g/cm}^3$ at 20 °C              |
| Relative vapour density                            | information on this property is not available |
| Particle characteristics                           | not relevant (liquid)                         |

### Other safety parameters

Oxidising properties none

## 9.2 Other information

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.

### 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 toxicological effects

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 acc. to GHS

This mixture does not meet the criteria for classification.

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### 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).

### 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.

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- **If on skin**

Data are not available.

- **Other information**

none

### 11.2 Endocrine disrupting properties

None of the ingredients are listed.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### 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.

### 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.

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### 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** not subject to transport regulations
- 14.2 UN proper shipping name** not assigned
- 14.3 Transport hazard class(es)** not assigned
- 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 Transport in bulk according to Annex II of MARPOL and the IBC Code

The cargo is not intended to be carried in bulk.

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

#### Transport information National regulations Additional information (UN RTDG)

Not subject to transport regulations. UN RTDG

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

Not subject to IMDG.

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

Not subject to ICAO-IATA.

## SECTION 15: Regulatory information

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

There is no additional information.

#### National regulations (Australia)

#### Australian Inventory of Chemical Substances (AICS)

All ingredients are listed or exempt from listing.

#### 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 |

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| Country | Inventory | Status                         |
|---------|-----------|--------------------------------|
| 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                                      |
| 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: Globally Harmonized System of Classification and Labelling of Chemicals ("Purple book").

Restructuring: section 9, section 14

| Section | Former entry (text/value)  | Actual entry (text/value)  | Safety-relevant |
|---------|--|--|-----------------|
| 2.1     | Classification acc. to GHS:<br>This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC. This mixture does not meet the criteria for classification. | Classification acc. to GHS:<br>This mixture does not meet the criteria for classification.                                   | yes             |
| 2.2     | Signal word:<br>not required   |  | 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             |

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## Van Gieson's Solution for microscopy

article number: 3925

### Abbreviations and acronyms

| Abbr.       | Descriptions of used abbreviations   |
|-------------|--|
| Acute Tox.  | Acute toxicity   |
| ATE         | Acute Toxicity Estimate  |
| BCF         | Bioconcentration factor  |
| BOD         | Biochemical Oxygen Demand  |
| CAS         | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)                           |
| Ceiling-C   | Ceiling value  |
| COD         | Chemical oxygen demand   |
| DGR         | Dangerous Goods Regulations (see IATA/DGR)   |
| 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  |
| 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  |
| MARPOL      | International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")                                |
| NLP         | No-Longer Polymer  |
| PBT         | Persistent, Bioaccumulative and Toxic  |
| ppm         | Parts per million  |
| Skin Corr.  | Corrosive to skin  |
| Skin Irrit. | Irritant to skin   |
| STEL        | Short-term exposure limit  |
| TWA         | Time-weighted average  |
| UN RTDG     | UN Recommendations on the Transport of Dangerous Good  |
| Unst. Expl. | Unstable explosive material  |
| vPvB        | Very Persistent and very Bioaccumulative   |
| WES         | Safe Work Australia: Workplace exposure standards for airborne contaminants  |

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### Key literature references and sources for data

Safe Work Australia's Code of Practice for Labelling of Workplace Hazardous Chemicals (under WHS Regulations).

UN Recommendations on the Transport of Dangerous Good. 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: **GHS 3.0 en**  
Replaces version of: 2019-07-19  
Version: (GHS 2)

date of compilation: 2017-01-18  
Revision: 2021-10-25

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

### 1.1 Product identifier

Identification of the substance **Resorcinol-Fuchsin solution according to Weigert for microscopy**

Article number X877

### 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  
**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

| Name   | Street          | Postal code/city   | Telephone | Website |
|--|-----------------|--------------------|-----------|---------|
| NSW Poisons Information Centre<br>Childrens Hospital | Hawkesbury Road | 2145 Westmead, NSW | 131126    |         |

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification acc. to GHS

| Section | Hazard class                                     | Category | 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             |
| 3.2     | Skin corrosion/irritation                        | 2        | Skin Irrit. 2             | H315             |
| 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

#### Signal word

**Danger**

#### Pictograms

GHS02, GHS05,  
GHS07, GHS08



#### Hazard statements

|      |                                    |
|------|------------------------------------|
| H225 | Highly flammable liquid and vapour |
| H290 | May be corrosive to metals         |
| H315 | Causes skin irritation             |
| 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 dust/fume/gas/mist/vapours/spray                   |

##### Precautionary statements - response

|                |   |
|----------------|---|
| P302+P352      | IF ON SKIN: Wash with plenty of soap and 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 |
| P370+P378      | In case of fire: Use sand, carbon dioxide or powder extinguisher for extinction   |

##### Precautionary statements - storage

|           |   |
|-----------|---|
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed |
| P403+P235 | Store in a well-ventilated place. Keep cool                     |

#### Hazardous ingredients for labelling:

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

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### 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 67-63-0    | 50 – < 100 | Flam. Liq. 2 / H225<br>Eye Irrit. 2 / H319<br>STOT SE 3 / H336   |    |          |
| Methanol                       | CAS No 67-56-1    | 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> |          |
| Hydrochloric acid .... %       | CAS No 7647-01-0  | 2 – < 10   | Met. Corr. 1 / H290<br>Skin Corr. 1 / H314<br>Eye Dam. 1 / H318<br>STOT SE 3 / H335                          |    | B(a)     |
| Iron(III) chloride hexahydrate | CAS No 10025-77-1 | 1 – < 3    | Met. Corr. 1 / H290<br>Acute Tox. 4 / H302<br>Skin Irrit. 2 / H315<br>Eye Dam. 1 / H318                      |    |          |
| Resorcinol                     | CAS No 108-46-3   | < 3        | Acute Tox. 4 / H302<br>Skin Irrit. 2 / H315<br>Eye Irrit. 2 / H319   |   |          |
| Fuchsine                       | CAS No 632-99-5   | < 1        | Carc. 2 / H351   |   | IARC: 2B |

#### Notes

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

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

2B:

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 case of skin irritation, consult a physician.

##### 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

Drowsiness, Dizziness, Vertigo, Narcosis, Nausea, Vomiting, Irritation, 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

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 |
|---------|---------------------------------------|-----------|------------|-----------|--------------------------|------------|---------------------------|-----------------|--------------------------------|----------|--------|
| AU      | resorcinol (m-di-hydroxybenzene)      | 108-46-3  | WES        | 10        | 45                       | 20         | 90                        |                 |                                |          | WES    |
| AU      | methyl alcohol (methanol)             | 67-56-1   | WES        | 200       | 262                      | 250        | 328                       |                 |                                |          | WES    |
| AU      | isopropyl alcohol (propan-2-ol)       | 67-63-0   | WES        | 400       | 983                      | 500        | 1,230                     |                 |                                |          | WES    |
| AU      | hydrogen chloride (hydrochloric acid) | 7647-01-0 | WES        |           |                          |            |                           | 5               | 7.5                            |          | WES    |

#### Notation

Ceiling-C Ceiling value is a limit value above which exposure should not occur

STEL 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  | 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 |
| 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 |
| Methanol          | 67-56-1 | DNEL      | 130 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | acute - 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) | 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) |
| Methanol                                    | 67-56-1 | PNEC      | 77 mg/kg        | aquatic organisms     | freshwater sediment          | 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      | 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 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

0,4 mm

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- **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                                  |
| <u>Vapour pressure</u>                                   |  |
| Vapour pressure  | 43 hPa at 20 °C<br>data apply to the main component                |



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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:

|                               |                                 |
|-------------------------------|---------------------------------|
| Corrosive to metals           | category 1: corrosive to metals |
| Other safety characteristics: |                                 |
| Miscibility                   | completely miscible with water  |

## 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 toxicological effects

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 acc. to GHS

##### 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 |
| 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  |
| Fuchsin                        | 632-99-5   | oral               | LD50     | >2,000 mg/kg | monkey  |

##### Skin corrosion/irritation

Causes skin irritation.

##### Serious eye damage/eye irritation

Causes serious eye damage.

##### Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

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### 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, causes skin irritation

#### • Other information

none

### 11.2 Endocrine disrupting properties

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

## 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          |

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| Aquatic toxicity (acute) of components of the mixture |          |          |           |         |               |
|---|----------|----------|-----------|---------|---------------|
| Name of substance                                     | CAS No   | Endpoint | Value     | Species | Exposure time |
| 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.

| 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)                  |          |
| Fuchsine   | 632-99-5 |      | 1.632 (pH value: 6.3, 25 °C) |          |

### 12.4 Mobility in soil

Data are not available.

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### 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.

### 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

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

#### Relevant provisions relating to waste(Basel Convention)

#### Properties of waste which render it hazardous

H3 Flammable liquids  
H11 Toxic (Delayed or chronic)

### 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

|           |            |
|-----------|------------|
| UN RTDG   | UN<br>2924 |
| IMDG-Code | UN 2924    |
| ICAO-TI   | UN 2924    |

### 14.2 UN proper shipping name

|  |                                      |
|--|--------------------------------------|
| UN RTDG                                | 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)

|           |          |
|-----------|----------|
| UN RTDG   | 3<br>(8) |
| IMDG-Code | 3 (8)    |



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|   |   |
|---|---|
| ICAO-TI   | 3 (8)   |
| <b>14.4 Packing group</b>   |   |
| <b>UN RTDG</b>  | 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>  |   |
| There is no additional information.   |   |
| <b>14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code</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 information National regulations Additional information (UN RTDG)</b>  |   |
| <b>UN number</b>  | 2924  |
| <b>Class</b>  | 3   |
| <b>Subsidiary risk(s)</b>   | 8   |
| <b>Packing group</b>  | II  |
| <b>Danger label(s)</b>  | 3+8   |
|  |   |
| <b>Special provisions (SP)</b>  | 274<br>UN RTDG  |
| <b>Excepted quantities (EQ)</b>   | E2<br>UN RTDG   |
| <b>Limited quantities (LQ)</b>  | 1 L<br>UN RTDG  |
| <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., (contains: 2-Propanol, Hydrochloric acid .... %), 3 (8), II, 12°C c.c. |
| Marine pollutant  | -   |
| <b>Danger label(s)</b>  | 3+8   |
|  |   |
| <b>Special provisions (SP)</b>  | 274   |
| <b>Excepted quantities (EQ)</b>   | E2  |
| <b>Limited quantities (LQ)</b>  | 1 L   |
| <b>EmS</b>  | F-E, S-C  |

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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

There is no additional information.

#### National regulations(Australia)

##### Australian Inventory of Chemical Substances(AICS)

All ingredients are listed or exempt from listing.

#### 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 |
| 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     |

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| Country | Inventory | Status                         |
|---------|-----------|--------------------------------|
| 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: Globally Harmonized System of Classification and Labelling of Chemicals ("Purple book").

Restructuring: section 9, section 14

| Section | Former entry (text/value)  | Actual entry (text/value)  | Safety-relevant |
|---------|--|--|-----------------|
| 2.1     |  | Classification acc. to GHS:<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>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     | Hazardous ingredients for labelling:<br>Methanol, 2-Propanol, Iron(III) chloride                         | Hazardous ingredients for labelling:<br>2-Propanol, Methanol, Hydrochloric acid .... %, Iron(III) chloride hexahydrate   | yes             |
| 2.2     | Labelling of packages where the contents do not exceed 125 ml:<br>Signal word: Danger                    |  | yes             |
| 2.2     |  | Labelling of packages where the contents do not exceed 125 ml:<br>change in the listing (table)  | yes             |



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| Section | Former entry (text/value)                             | Actual entry (text/value)  | Safety-relevant |
|---------|---|--|-----------------|
| 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 |  | 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   |
|------------|--|
| Acute Tox. | Acute toxicity   |
| ATE        | Acute Toxicity Estimate  |
| BCF        | Bioconcentration factor  |
| BOD        | Biochemical Oxygen Demand  |
| Carc.      | Carcinogenicity  |
| CAS        | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)   |
| Ceiling-C  | Ceiling value  |
| 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 |
| 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  |

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| Abbr.       | Descriptions of used abbreviations  |
|-------------|---|
| 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   |
| 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   |
| MARPOL      | International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")   |
| 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   |
| Skin Corr.  | Corrosive to skin   |
| Skin Irrit. | Irritant to skin  |
| STEL        | Short-term exposure limit   |
| STOT SE     | Specific target organ toxicity - single exposure  |
| TWA         | Time-weighted average   |
| UEL         | Upper explosion limit (UEL)   |
| UN RTDG     | UN Recommendations on the Transport of Dangerous Good   |
| vPvB        | Very Persistent and very Bioaccumulative  |
| WES         | Safe Work Australia: Workplace exposure standards for airborne contaminants   |

### Key literature references and sources for data

Safe Work Australia's Code of Practice for Labelling of Workplace Hazardous Chemicals (under WHS Regulations).

UN Recommendations on the Transport of Dangerous Good. 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.      |
| H290 | May be corrosive to metals.              |
| H301 | Toxic if swallowed.                      |
| H302 | Harmful if swallowed.                    |
| H311 | Toxic 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.                        |
| H335 | May cause respiratory irritation.        |
| H336 | May cause drowsiness or dizziness.       |
| H351 | Suspected of causing cancer.             |
| H370 | Causes damage to organs (eye).           |

### Disclaimer

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