



# SAFETY DATA SHEET

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Revision nr : 13

Date : 20 / 4 / 2016

Supersedes : 16 / 6 / 2015

## Giemsa R solution

**320310**

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

#### 1.1. Product identifier

Trade name : Giemsa R solution

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

Use : In vitro diagnostic medical device.  
For professional use only.

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

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

#### 1.4. Emergency telephone number

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

### SECTION 2 Hazards identification

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

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

- Health hazards : Acute toxicity, Oral - Category 3 - Danger - (CLP : Acute Tox. 3) - H301  
Acute toxicity, dermal - Category 3 - Danger - (CLP : Acute Tox. 3) - H311  
Acute toxicity, Inhalation - Category 3 - Danger - (CLP : Acute Tox. 3) - H331  
Specific Target Organ Toxicity - Single exposure - Category 1 - Danger - (CLP : STOT SE 1) - H370
- Physical hazards : Flammable liquids - Category 2 - Danger - (CLP : Flam. Liq. 2) - H225

#### 2.2. Label elements

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

##### • Hazard pictograms



- Hazard pictograms : GHS06 - GHS02 - GHS08
- Signal words : Danger
- Hazard statements : H225 - Highly flammable liquid and vapour  
H301 - Toxic if swallowed  
H311 - Toxic in contact with skin.  
H331 - Toxic if inhaled.  
H370 - Causes damage to organs.

##### • Precautionary statements

- Prevention : P281 - Use personal protective equipment as required  
P202 - Do not handle until all safety precautions have been read and understood  
P233 - Keep container tightly closed  
P210 - Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
- Response : P309+311 - IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician  
P304+340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing

#### 2.3. Other hazards

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### SECTION 2 Hazards identification (continued)

Other hazards : None under normal conditions.

### SECTION 3 Composition/information on ingredients

Substance / Preparation : Preparation.

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

Substance name	Value(s)	CAS nr	EINECS nr	EC index	REACH	Classification
May-Grünwald	ca 0.5 %	----	----	----	----	Eye Dam. 1;H318 Acute Tox. 4 (Oral);H302 Aquatic Chronic 3;H412
Methylene blue	< 0.5 %	61-73-4	200-515-2	----	----	Acute Tox. 4 (Oral);H302
Methanol	ca 50 %	67-56-1	200-659-6	603-001-00-X	01-2119433307-44-XXXX	Flam. Liq. 2;H225 Acute Tox. 3 (Dermal);H311 Acute Tox. 3 (Inhalation);H331 Acute Tox. 3 (Oral);H301 STOT SE 1;H370

### SECTION 4. First aid measures

#### 4.1. Description of first aid measures

##### First aid

- **Inhalation** : Take victim to fresh air. Obtain medical attention if breathing difficulty persists.
- **Skin contact** : Rinse immediately with plenty of water. Seek medical attention if ill effect or irritation develops.
- **Eye contact** : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking, tears or redness persist.
- **Ingestion** : Rinse mouth. Seek medical advice (show the label where possible).

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

- **Inhalation** : Symptoms of overexposure to vapours include drowsiness, weakness, headache, dizziness, nausea, vomiting, dimming of vision. Toxic if inhaled.
- **Skin contact** : Redness, pain. Exposure to this material can result in absorption through skin causing significant health hazard.
- **Eye contact** : Redness, pain. Blurred vision. Tears.
- **Ingestion** : Toxic if swallowed. Swallowing a small quantity of this material presents some health hazard. Must not come into contact with food or be consumed.

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

No data available.

### SECTION 5. Fire-fighting measures

#### 5.1. Extinguishing media

Extinguishing media : Powder. Carbon dioxide. Use extinguishing media appropriate for surrounding fire.

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

Special exposure hazards : When mixed with air and exposed to ignition source, can burn in open air or explode if confined.

#### 5.3. Advice for fire-fighters

- Flammable class : Highly flammable.
- Protection against fire : Do not enter fire area without proper protective equipment, including respiratory protection.
- Prevention : Keep away from sources of ignition. No smoking.

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### SECTION 5. Fire-fighting measures (continued)

**Special procedures** : Exercise caution when fighting any chemical fire.

### SECTION 6. Accidental release measures

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

**Personal precautions** : Wear suitable respiratory equipment. Equip cleanup crew with proper protection.

#### 6.2. Environmental precautions

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

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

**After spillage and/or leakage** : Remove ignition sources. Clean up any spills as soon as possible, using an absorbent material to collect it. Dispose in a safe manner in accordance with local/national regulations.

#### 6.4. Reference to other sections

See Heading 8.

### SECTION 7. Handling and storage

#### 7.1. Precautions for safe handling

**General** : Store and handle as though always a serious potential fire/explosion and health hazard exists. Keep away from sources of ignition - No Smoking.

**Handling** : Handle in accordance with appropriate industrial hygiene and safety procedures. Keep away from food, drink and animal feeding stuffs. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.

**Technical protective measures** : Provide good ventilation in process area to prevent formation of vapour.

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

**Storage** : Store in dry, cool, well-ventilated area. Keep bottles closed when not in use. Keep away from heat.

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

Not applicable.

### SECTION 8. Exposure controls/personal protection

#### 8.1. Control parameters

##### Occupational Exposure Limits

##### On ingredients

: Methanol : VLE - France [ppm] : indicative 250  
Methanol : VLE - France [ppm] : indicative 328  
Methanol : VME - France [ppm] : 200  
Methanol : VME - France [mg/m<sup>3</sup>] : 260  
Methanol : VME - CEE [ppm] : 200  
Methanol : VME - CEE [mg/m<sup>3</sup>] : 260  
Methanol : VLE - Unated States [ppm] : 250  
Methanol : VME - Unated States [ppm] : 200  
Methanol : VME - Germany [ppm] : 200  
Methanol : VME - Germany [mg/m<sup>3</sup>] : 270

#### 8.2. Exposure controls

##### Personal protection

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### SECTION 8. Exposure controls/personal protection (continued)

- **Respiratory protection** : In case of insufficient ventilation, wear suitable respiratory equipment. Use a full-face cartridge type A (EN 14387). Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
- **Hand protection** : Gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.  
In full:  
Material: nitrile rubber.  
Minimum thickness: 0.56 mm. Break through time: Not tested.  
Proposed equipment : SOL-VEX® (Ansell 37-185).  
In the event of splashes:  
Material: nitrile rubber.  
Minimum thickness: 0.10 mm. Break through time: Not tested.  
Proposed equipment : Touch N Tuff® (Ansell 92-500 ou 92-670).  
Source of data: Ansell Healthcare Europe N.V., Riverside Business Park, Block J, Boulevard International 55, B-1070 Brussels, Belgium, Tel. +32 (0)2 528 74 00, e-mail : info@ansell.eu.
- **Skin protection** : Wear suitable protective clothing. Choose body protection in relation to the dangerousness of the product, its concentration and the amounts used depending on the workstation.
- **Eye protection** : Safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
- **Ingestion** : When using, do not eat, drink or smoke.
- Industrial hygiene** : Provide good ventilation in process area to prevent formation of vapour. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

### SECTION 9. Physical and chemical properties

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

##### 9.1.a. Appearance

- Physical state : Liquid.  
Colour : Dark blue.

##### 9.1.b. Odour

- Odour : Alcohol.

##### 9.1.c. Odour threshold

No data available.

##### 9.1.d. pH

- pH value : 6.5-7.5

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

No data available.

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

No data available.

##### 9.1.g. Flash point

- Flash point [°C] : 14.45

##### 9.1.h. Evaporation rate

No data available.

##### 9.1.i. Flammability

No data available.



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

**9.1.i. Explosion limits (lower - upper)**

No data available.

**9.1.k. Vapour pressure**

No data available.

**9.1.l. Vapour density**

No data available.

**9.1.m. Relative density**

No data available.

**9.1.n. Solubility**

No data available.

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

No data available.

**9.1.p. Auto-ignition temperature**

No data available.

**9.1.q. Thermal decomposition**

No data available.

**9.1.r. Viscosity**

No data available.

**9.1.s. Explosive Properties**

No data available.

**9.1.t. Oxidising properties**

No data available.

**9.2. Other information**

No data available.

### SECTION 10. Stability and reactivity

**10.1. Reactivity**

No data available.

**10.2. Chemical stability****Physico-chemical stability** : Stable in normal temperature and pressure conditions.**10.3. Possibility of hazardous reactions****Hazardous reactions** : May release flammable gases.**Hazardous properties** : In use, may form flammable/explosive vapour-air mixture.**10.4. Conditions to avoid****Conditions to avoid** : Open flame. Sparks. Overheating.**10.5. Incompatible materials**

No data available.

**10.6. Hazardous decomposition products**

No data available.



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### SECTION 10. Stability and reactivity (continued)

### SECTION 11. Toxicological information

#### 11.1. Information on toxicological effects

**• Acute toxicity****On ingredients****Methanol**

: Mouse dermal LD50 [mg/kg] : > 45000  
: Rabbit dermal LD50 [mg/kg] : 15800  
: Rat oral LD50 [mg/kg] : 5628  
: Mouse oral LD50 [mg/kg] : 7300  
: Rat inhalation LC50 [ppm/4h] : 64000  
: Rat inhalation LC50 [mg/l/4h] : 85

**Sources of key data used : ESIS**

- Skin corrosion/irritation** : Exposure to this material can result in absorption through skin causing significant health hazard.
- Serious eye damage/irritation** : No data available.
- Respiratory or skin sensitisation** : No data available.
- Germ cell mutagenicity** : No data available.
- Carcinogenicity** : No data available.
- Reproductive toxicity** : No data available.
- STOT-single exposure** : No data available.
- STOT-repeated exposure** : Causes damage to organs.
- Aspiration hazard** : No data available.
- Potential effects on health** : Toxic by inhalation, in contact with skin and if swallowed.
- Signs and symptoms of exposure** : No data available.

### SECTION 12. Ecological information

#### 12.1. Toxicity

**On ingredients****Methanol**

: LC50-96 Hour - fish [mg/l] : 15400  
: 24 H-LC50 - Daphnia magna [mg/l] : > 10000  
: 24 Hour-LC50 - Plankton [mg/l] : 12000

#### 12.2. Persistence - degradability

**On ingredients****Methanol**

: Biodegradation [%] : > 90 (24h)

#### 12.3. Bioaccumulative potential

**On ingredients****Methanol**

: Bioaccumulative potential : 10 (Leuciscus idus)

#### 12.4. Mobility in soil

No data available.

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

No data available.

#### 12.6. Other adverse effects

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## SECTION 12. Ecological information (continued)

Not release to the environment.

## SECTION 13. Disposal considerations

### 13.1. Waste treatment methods

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

## SECTION 14. Transport information

### 14.1. UN number

• UN No. : 1230

### 14.2. UN proper shipping name

• Proper shipping name : METHANOL

### 14.3. Transport hazard class(es)

• Hazard Label(s)

• Class : 3: Flammable liquids  
6.1: Toxic substances

- H.I. nr : 336

• Classification code : FT1

### 14.4. Packing group

• ADR Packing group : II

• IMO Packing group : II

• IATA Packing group : II

### 14.5. Environmental hazards

• IMDG-Marine pollution : No

### 14.6. Special precautions for user

Emergency action in case of accident

• IMO-IMDG code : FS : F-E - S-D

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

Not applicable.

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### SECTION 15. Regulatory information

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

Ensure all national/local regulations are observed.

#### 15.2. Chemical Safety Assessment

Not applicable.

### SECTION 16. Other information

**H Substances ' sentences' text** : H225 - Highly flammable liquid and vapour  
H301 - Toxic if swallowed  
H302 - Harmful if swallowed  
H311 - Toxic in contact with skin.  
H318 - Causes serious eye damage.  
H331 - Toxic if inhaled.  
H370 - Causes damage to organs.  
H412 - Harmful to aquatic life with long lasting effects.

**Revision** : 13  
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**Further information** : Product intended for professional use only.

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