

Trade name: Rgs Giemsa z Blutzellenf RS

Substance number: 183600

Version: 4 / CH

Date revised: 17.06.2016

Replaces Version: 3 / CH

Print date: 17.06.16

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

### **1.1. Product identifier**

Rgs Giemsa z Blutzellenf RS  
Item No. 18360000

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

#### **Address**

Hänseler AG  
Industriestrasse 35  
9101 Herisau  
Telephone no. 0041 (0)71 353 58 58  
E-mail address of person responsible for this SDS sdb@haenseler.ch

### **1.4. Emergency telephone number**

Switzerland :145 / Abroad +41 (0)44 251 51 51

## **SECTION 2: Hazards identification \*\*\***

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

#### **Classification (Regulation (EC) No. 1272/2008)**

Classification (Regulation (EC) No. 1272/2008)

Flam. Liq. 2	H225
Acute Tox. 3	H301
Acute Tox. 3	H311
STOT SE 1	H370
Acute Tox. 4	H332

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008  
For explanation of abbreviations see section 16.

### **2.2. Label elements**

#### **Labelling according to regulation (EC) No 1272/2008**

##### **Hazard pictograms**



##### **Signal word**

Danger

##### **Hazard statements \*\*\***

H225	Highly flammable liquid and vapour.
H370	Causes damage to organs.
H332	Harmful if inhaled.
H301+H311	Toxic if swallowed or in contact with skin

##### **Precautionary statements \*\*\***

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.

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P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.  
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P308+P311 IF exposed or concerned: Call a POISON CENTER or doctor.  
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

**Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)**

contains Methanol

**SECTION 3: Composition/information on ingredients \*\*\*****Hazardous ingredients (Regulation (EC) No. 1272/2008) \*\*\*****Methanol**

CAS No.	67-56-1				
EINECS no.	200-659-6				
Registration no.	01-2119433307-44-XXXX				
Concentration	>= 49	<	50		%
Classification (Regulation (EC) No. 1272/2008)					
	Flam. Liq. 2		H225		
	Acute Tox. 3		H331		Route of exposure: inhalative
	Acute Tox. 3		H311		Route of exposure: dermal
	Acute Tox. 3		H301		Route of exposure: oral
	STOT SE 1		H370		Eyes; Route of exposure: oral

Concentration limits (Regulation (EC) No. 1272/2008)

STOT SE 1	H370	>= 10
STOT SE 2	H371	>= 3 < 10

**Further ingredients \*\*\*****Glycerol**

CAS No.	56-81-5				
EINECS no.	200-289-5				
Concentration	>= 25	<	50		%
Advice: [4]					

**disodium 2-(2,4,5,7-tetrabromo-6-oxido-3-oxoxanthen-9-yl)benzoate**

CAS No.	17372-87-1				
EINECS no.	241-409-6				
Concentration		<	1		%
Advice: [4]					
Classification	Xi, R36				

Classification (Regulation (EC) No. 1272/2008)

Eye Irrit. 2	H319
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**methylthioninium chloride**

CAS No.	61-73-4				
EINECS no.	200-515-2				
Concentration		<	1		%
Advice: [4]					
Classification	Xn, R22				

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 4	H302
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**Poly(oxy-1,2-ethanediyl), alpha-(isononylphenyl)-omega-hydroxy**

CAS No. 37205-87-1

Concentration &lt; 1 %

Advice: [4]

Classification Xn, R22

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 4 H302

Eye Dam. 1 H318

Aquatic Chronic 2 H411

**Advice:**

[4] Voluntary information

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Adhere to personal protective measures when giving first aid

**After inhalation**

Ensure supply of fresh air. In case of respiratory arrest induce breathing with a respiratory device. Seek medical advice.

**After skin contact**

Wash immediately with plenty of water for several minutes. Remove contaminated, soaked clothing immediately and dispose of safely. Summon a doctor immediately.

**After eye contact**

Separate eyelids, wash the eyes thoroughly with water (15 min.). Summon a doctor immediately.

**After ingestion**

Ensure supply of fresh air. Summon a doctor immediately. Induce the patient to vomit of his own accord only if fully conscious.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide, Foam, Dry powder

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

The product is combustible. Vapours heavier than air. Forms explosive mixture with air are possible. In case of combustion evolution of dangerous gases possible.

**5.3. Advice for firefighters****Special protective equipment for fire-fighting**

Use self-contained breathing apparatus. Wear protective clothing.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin, eyes and clothing. Ensure supply of fresh air. Do not inhale vapours.

**6.2. Environmental precautions**

Do not discharge into surface waters/groundwater. Do not empty into drains. Explosive

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

Pick up with absorbent material. When picked up, treat material as prescribed under Section 13 "Disposal". Clean up affected area.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Work only in fume cupboards. Do not inhale substance. Avoid formation of aerosols.

#### Advice on protection against fire and explosion

Keep away from sources of ignition. Take precautionary measures against static discharge.

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

#### Recommended storage temperature

Value 15 - 25 °C

#### Requirements for storage rooms and vessels

Storage rooms must be properly ventilated. Store away from sources of ignition and heat. Unsuitable material: plastic materials. Use aluminium containers.

#### Further information on storage conditions

Keep under lock and key or accessible only to specialists or people who are authorized.

## SECTION 8: Exposure controls/personal protection \*\*\*

### 8.1. Control parameters

#### Exposure limit values \*\*\*

##### Methanol

List	SUVA			
Type	MAK			
Value	260	mg/m <sup>3</sup>	200	ppm(V)
Short term exposure limit	1040	mg/m <sup>3</sup>	800	ppm(V)

Skin resorption / sensibilisation: H; Pregnancy group: S; Status: 2014; Remarks: B

##### Glycerol

List	SUVA		
Type	MAK		
Value	50	mg/m <sup>3</sup>	
Short term exposure limit	100	mg/m <sup>3</sup>	

Pregnancy group: S; Status: 2014

### 8.2. Exposure controls

#### General protective and hygiene measures

Wash contaminated clothing before reuse. Preventative skin protection. Wash hands and face after work. Do not eat or drink during work time. Work only in fume cupboards.

#### Respiratory protection

Breathing apparatus in the event of vapours. Multi-purpose filter ABEK

#### Hand protection

Protective gloves	
Use	Permanent hand contact
Reference substance	Methanol
Appropriate Material	Butyl rubber - Butyl
Material thickness	0.7 mm
Breakthrough time	> 480 min

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Protective gloves			
Reference substance	Methanol		
Appropriate Material	viton		
Material thickness	0.7	mm	
Breakthrough time	> 120	min	

**Eye protection**

necessary

**Body protection**

Fire-resistant antistatic protective clothing

**SECTION 9: Physical and chemical properties \*\*\*****9.1. Information on basic physical and chemical properties****Form** liquid, clear**Colour** blue**Odour** of methanol**Initial boiling point and boiling range \*\*\***

Value &gt; 65 °C

Source GESTIS-Stoffdatenbank  
(<http://www.dguv.de/ifa/de/gestis/stoffdb/index.jsp>)**Flash point**

Value &gt; 9 °C

Source GESTIS-Stoffdatenbank  
(<http://www.dguv.de/ifa/de/gestis/stoffdb/index.jsp>)

Value appr. 18 °C

Source Merck Index

**Vapour pressure**

Value &lt; 129 hPa

Temperature 20 °C

Source GESTIS-Stoffdatenbank  
(<http://www.dguv.de/ifa/de/gestis/stoffdb/index.jsp>)**Partition coefficient: n-octanol/water**

Reference substance Methanol

log Pow -0.74

Source Safety Data Sheet Supplier

**9.2. Other information****Other information**

The physical data information is analogous to the contents of the product.

**SECTION 10: Stability and reactivity****10.4. Conditions to avoid**

Heat

**10.5. Incompatible materials**

Alkaline metals, Reactions with earth alkali metals. Oxidising agents, Reaction with nitric acid. Halogens

**10.6. Hazardous decomposition products**

No data available.

**Other information**

Vapours and gases can form an explosive mixture with air.

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## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Acute oral toxicity**

ATE	287.469	mg/kg
	7	

Method	calculated value (Regulation (EC) No. 1272/2008)	
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#### **Acute oral toxicity (Components)**

##### **methylthioninium chloride**

Species	rat		
LD50	1180	mg/kg	
Remarks	anhydrous		
Source	RTECS		

##### **Methanol**

Species	Human		
LDLo	143	mg/kg	
Source	RTECS		

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

Species	rat		
LD50	> 2000	mg/kg	

##### **Glycerol**

Species	rat		
LD50	12600	mg/kg	

##### **Glycerol**

Species	rat		
NOAEL	1310	mg/kg	

#### **Acute dermal toxicity**

ATE	603.083	mg/kg
	3	

Method	calculated value (Regulation (EC) No. 1272/2008)	
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#### **Acute dermal toxicity (Components)**

##### **Glycerol**

Species	rabbit		
	> 10000	mg/kg	

#### **Acute inhalational toxicity**

ATE	1.0051	mg/l
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Administration/Form	Dust/Mist
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Method	calculated value (Regulation (EC) No. 1272/2008)	
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#### **Acute inhalative toxicity (Components)**

##### **Methanol**

Species	rat		
LC50	131.25	mg/l	
Duration of exposure	4	h	
Administration/Form	Vapors		
Source	ECHA		

#### **Skin corrosion/irritation**

Reference substance	Methanol
Remarks	Danger of resorption through the skin.
Source	Safety Data Sheet Supplier

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**Serious eye damage/irritation**

Reference substance	Methanol
evaluation	slightly irritant
Source	Safety Data Sheet Supplier

**Mutagenicity (Components)****Glycerol**

evaluation	No mutagenicity in the Ames-test.
Remarks	Based on available data, the classification criteria are not met.

**Glycerol**

evaluation	No mutagenicity according to various in vitro tests.
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**Reproduction toxicity (Components)****Methanol**

Species	Rats (male/female)
Dose	1.33 mg/l
evaluation	No negative effects
Source	Safety Data Sheet Supplier

**Carcinogenicity (Components)****disodium 2-(2,4,5,7-tetrabromo-6-oxido-3-oxoxanthen-9-yl)benzoate**

evaluation	Indications of possible carcinogenic effects in animal studies are available.
Source	RTECS
Source	IARC: 3-Group 3: Not classifiable as its carcinogenicity to humans.

**Experience in practice**

Irritating effect on the respiratory tract. Irritates the mucous membrane.

**Other information**

Observe the usual precautions for handling chemicals.

**SECTION 12: Ecological information****12.1. Toxicity****Fish toxicity (Components)****disodium 2-(2,4,5,7-tetrabromo-6-oxido-3-oxoxanthen-9-yl)benzoate**

Species	Oryzias latipes
LC50	1200 mg/l
Duration of exposure	48 h
Source	Sigma/Aldrich

**Methanol**

Species	Bluegill (Lepomis macrochirus)
LC50	15400 mg/l
Duration of exposure	96 h
Source	(EPA 600/3-75/009)

**methylthioninium chloride**

Species	Fathead minnow (Pimephales promelas)
LC50	45 mg/l

**Glycerol**

	Medi 68100 mg/l
	an
Duration of exposure	96 h

**Glycerol**

Species	rainbow trout (Oncorhynchus mykiss)
LC50	54 g/l

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Duration of exposure 96 h

**Daphnia toxicity (Components)****Methanol**

Species	Daphnia magna		
EC50	> 10000		mg/l
Duration of exposure	48	h	
Source	IUCLID		

**methylthioninium chloride**

Species	Daphnia magna		
EC50	2260		mg/l
Duration of exposure	48	h	

**Glycerol**

Species	Daphnia		
EC50	10		g/l

**Algae toxicity (Components)****Methanol**

Species	Pseudokirchneriella subcapitata		
EC50	22000		mg/l
Duration of exposure	96	h	
Method	OECD 201		
Source	Merck KGaA Safety Data Sheet		

**Bacteria toxicity (Components)****Methanol**

Species	activated sludge		
IC50	> 1000		mg/l
Duration of exposure	3	h	
Method	OECD 209		
Source	Merck KGaA Safety Data Sheet		

**Glycerol**

Species	Pseudomonas putida		
EC5	> 10		g/l
Duration of exposure	16	h	

**12.2. Persistence and degradability****Ready degradability (Components)****Methanol**

Value	99		%
Duration of test	30	d	
Method	OECD 301D		
Source	Merck KGaA Safety Data Sheet		

**Methanol**

Value	95		%
Duration of test	20	d	
Source	Safety Data Sheet Supplier		

**Chemical oxygen demand (COD) (Components)****Methanol**

Value	1.42		mg/g
Source	IUCLID		

**Biochemical oxygen demand (BOD5) (Components)****Methanol**

Value	600	to	1120	mg/g
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Duration of test	5	d
Source	IUCLID	

**12.3. Bioaccumulative potential****Partition coefficient: n-octanol/water**

Reference substance	Methanol
log Pow	-0.74
Source	Safety Data Sheet Supplier

**Octanol/water partition coefficient (log Pow) (Components)****Methanol**

log Pow	-0.77
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**methylthioninium chloride**

log Pow	5.85
Method	calculated
Source	Literature value

**Glycerol**

log Pow	-1.76
Source	GESTIS-Stoffdatenbank ( <a href="http://www.dguv.de/ifa/de/gestis/stoffdb/index.jsp">http://www.dguv.de/ifa/de/gestis/stoffdb/index.jsp</a> )

**12.6. Other adverse effects****General information / ecology**

Do not allow it to reach soil, ground water, water bodies or sewage system.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations for the product**

Disposal in compliance with local and national regulations.

**Disposal recommendations for packaging**

Dispose of as unused product.

**SECTION 14: Transport information****Land transport ADR/RID****14.1. UN number**

UN 1230

**14.2. UN proper shipping name**

METHANOL, Solution

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

Class	3	
Label	3	6.1

**14.4. Packing group**

Packing group	II
Limited Quantity	1 I
Transport category	2
Tunnel restriction code	D/E

**Marine transport IMDG/GGVSee****14.1. UN number**

UN 1230

**14.2. UN proper shipping name**

METHANOL, Solution

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

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Class	3
Subsidiary risk	6.1
<b>14.4. Packing group</b>	
Packing group	II

**Air transport ICAO/IATA****14.1. UN number**

UN 1230

**14.2. UN proper shipping name**

METHANOL, Solution

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

Class	3
Subsidiary risk	6.1
<b>14.4. Packing group</b>	
Packing group	II

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Water Hazard Class (Germany)**

Water Hazard Class	WGK 2
(Germany)	

Remarks Classification according to Annex 4 VwVwS

**15.2. Chemical safety assessment**

For this substance a chemical safety assessment has not been carried out.

**SECTION 16: Other information****Hazard statements listed in Chapter 3**

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.

**CLP categories listed in Chapter 3**

Acute Tox. 3	Acute toxicity, Category 3
Flam. Liq. 2	Flammable liquid, Category 2

**Supplemental information**

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\*  
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.