

Trade name: Giemsa Azur Gemisch (Reactifs R.A.L. SA)

Substance number: 180400

Version: 4 / CH

Date revised: 14.08.2023

Replaces Version: 3 / CH

Print date: 14.08.23

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

### **1.1. Product identifier**

Giemsa Azur Gemisch (Reactifs R.A.L. SA)

Item No. 18040000

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

#### **Use of the substance/preparation**

Reagent for analyses, In Vitro Diagnostic Medical Device

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

#### **Address/Manufacturer**

Hänseler AG

Industriestrasse 35

9100 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of sdb@haenseler.ch

person responsible

for this SDS

### **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)

Acute Tox. 4 H302

Eye Irrit. 2 H319

Skin Sens. 1 H317

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**

Warning

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

H302

Harmful if swallowed.

H319

Causes serious eye irritation.

H317

May cause an allergic skin reaction.

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

P261

Avoid breathing dust/fume/gas/mist/vapours/spray.

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P264.1 Wash hands thoroughly after handling.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
 P501.3 Disposal in compliance with local and national regulations.

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

contains \*\*\* methylthioninium chloride; 3-Methylamino-7-dimethylaminophenothiazin-5-ium, Clorid; disodium 2-(2,4,5,7-tetrabromo-6-oxido-3-oxoxanthen-9-yl)benzoate

**2.3. Other hazards**

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

**SECTION 3: Composition/information on ingredients \*\*\*****Hazardous ingredients \*\*\*****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	>= 25	<	50	%
Classification (Regulation (EC) No. 1272/2008)	Eye Irrit. 2		H319	
	Skin Sens. 1		H317	

**3-Methylamino-7-dimethylaminophenothiazin-5-ium, Clorid**

CAS No.	531-55-5			
EINECS no.	208-511-2			
Concentration	>= 25	<	50	%
Classification (Regulation (EC) No. 1272/2008)	Acute Tox. 4		H302	

cATpE	oral	500	mg/kg
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**methylthioninium chloride**

CAS No.	61-73-4			
EINECS no.	200-515-2			
Concentration	>= 25	<	50	%
Classification (Regulation (EC) No. 1272/2008)	Acute Tox. 4		H302	

ATE	oral	1'180	mg/kg
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**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

In any case show the physician the Safety Data Sheet.

**After inhalation**

Ensure supply of fresh air.

**After skin contact**

Wash skin thoroughly with water (15 min.). Remove contaminated clothing.

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**After eye contact**

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

**After ingestion**

Drink water in small gulps. Summon a doctor immediately.

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

Water, Carbon dioxide, Foam, Dry powder

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

In case of combustion evolution of dangerous gases possible. In the event of fire the following can be released: Hydrogen bromide (HBr); Sulfoxides (SO<sub>x</sub>); Nitrogen oxides (NO<sub>x</sub>); Hydrogen chloride (HCl);  
The product is combustible.

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

Use self-contained breathing apparatus. Use personal protective clothing.

**Other information**

Suppress vapours with water spray jet. Do not discharge into surface waters/groundwater.

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

Avoid contact with skin, eyes and clothing. Avoid breathing dust.

**6.2. Environmental precautions**

Do not empty into drains.

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

To pick up dry. Dampen, pick up mechanically and dispose of. Clean up affected area. Avoid raising dust.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

No special requirements.

**7.2. Conditions for safe storage, including any incompatibilities****Recommended storage temperature**

Value	5	-	30	°C
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**Storage classes**

Storage class according to TRGS 510	12	Non-combustible liquids
Storage category (Switzerland)	10/12	Other liquid hazardous substances

**Further information on storage conditions**

Keep container tightly closed.

**SECTION 8: Exposure controls/personal protection****8.2. Exposure controls**

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**General protective and hygiene measures**

Remove contaminated, soaked clothing immediately and dispose of safely. Preventative skin protection.  
Wash hands and face after work.

**Respiratory protection**

Breathing apparatus in the event of aerosol. Particle filter P2

**Hand protection**

Gloves

Appropriate Material	nitrile rubber - NBR
Material thickness	0.11 mm
Breakthrough time	> 480 min

**Eye protection**

necessary

**Body protection**

Protective clothing

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

<b>Physical state</b>	solid
<b>Colour</b>	dark green
<b>Colour</b>	green to black
<b>Odour</b>	slight, original odour

**Melting point**

Remarks No data available

**Boiling point or initial boiling point and boiling range**

Remarks No data available

**Flash point**

Remarks Not applicable

**pH value**

Remarks No data available

**Density and/or relative density**

Remarks No data available

**9.2. Other information****Solubility in water**

Temperature	20 °C
Remarks	Difficult to dissolve

**Bulk density**

Value	appr. 520	kg/m <sup>3</sup>
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**SECTION 10: Stability and reactivity****10.1. Reactivity**

Danger of dust explosion

**10.2. Chemical stability**

Sensitive to air.

**10.3. Possibility of hazardous reactions**

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid

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exothermic reactions.

**10.4. Conditions to avoid**

To avoid thermal decomposition, do not overheat.

**10.5. Incompatible materials**

Strong oxidising agents, Bases, Reducing agents

**10.6. Hazardous decomposition products**Toxic gases/vapours, Hydrogen bromide, sulphurous oxides (SO<sub>x</sub>), Nitrogen, Hydrogen chloride (HCl)**Other information**

sensitive to air

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

ATE	797.315	mg/kg
	4	

Method calculated value (Regulation (EC) No. 1272/2008)

**Acute oral toxicity (Components)****methylthioninium chloride**

Species	rat	
LD50	1180	mg/kg
Remarks	anhydrous	
Source	RTECS	

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

Species	rat	
LD50	> 2000	mg/kg

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

Remarks No data available.

**methylthioninium chloride**

Remarks No data available.

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

Remarks No data available.

**methylthioninium chloride**

Remarks No data available.

**Skin corrosion/irritation (Components)****disodium 2-(2,4,5,7-tetrabromo-6-oxido-3-oxoxanthen-9-yl)benzoate**

Method	OECD 404
Remarks	No effect of irritation known.

**methylthioninium chloride**

Remarks No data available.

**Serious eye damage/irritation**

evaluation irritant

**Serious eye damage/irritation (Components)****disodium 2-(2,4,5,7-tetrabromo-6-oxido-3-oxoxanthen-9-yl)benzoate**

Species	rabbit
Method	OECD 405

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Remarks Irritates the eyes.

**methylthioninium chloride**

Remarks No data available.

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

Remarks No data available.

**methylthioninium chloride**

Remarks No data available.

**Subacute, subchronic, chronic toxicity (Components)****disodium 2-(2,4,5,7-tetrabromo-6-oxido-3-oxoxanthen-9-yl)benzoate**

Remarks No data available.

**methylthioninium chloride**

Remarks No data available.

**Mutagenicity (Components)****methylthioninium chloride**

Remarks No data available.

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

Method Ames test

Remarks negative

**methylthioninium chloride**

Remarks No data available.

**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.

**methylthioninium chloride**

Remarks No data available.

**Specific Target Organ Toxicity (STOT) (Components)****disodium 2-(2,4,5,7-tetrabromo-6-oxido-3-oxoxanthen-9-yl)benzoate**

Remarks Not applicable

**methylthioninium chloride**

Remarks Not applicable

**11.2 Information on other hazards****Endocrine disrupting properties with respect to humans**

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

**Other information**

Observe the usual precautions for handling chemicals.

**SECTION 12: Ecological information \*\*\*****12.1. Toxicity****Fish toxicity**

Remarks Quantitative data concerning the ecological effect are not available.

**Fish toxicity (Components)**

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**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	

**methylthioninium chloride**

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

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

Remarks	No data available.
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**methylthioninium chloride**

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

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

Remarks	No data available.
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**methylthioninium chloride**

Remarks	No data available.
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**Bacteria toxicity (Components)****disodium 2-(2,4,5,7-tetrabromo-6-oxido-3-oxoxanthen-9-yl)benzoate**

Remarks	No data available.
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**methylthioninium chloride**

Remarks	No data available.
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**12.2. Persistence and degradability****Physico-chemical eliminability (Components)****disodium 2-(2,4,5,7-tetrabromo-6-oxido-3-oxoxanthen-9-yl)benzoate**

Remarks	No data available.
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**methylthioninium chloride**

Remarks	No data available.
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**Biodegradability (Components)****disodium 2-(2,4,5,7-tetrabromo-6-oxido-3-oxoxanthen-9-yl)benzoate**

Remarks	No data available.
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**methylthioninium chloride**

Remarks	No data available.
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**12.3. Bioaccumulative potential****Octanol/water partition coefficient (log Pow) (Components)****methylthioninium chloride**

log Pow	5.85
Method	calculated
Source	Literature value

**12.5. Results of PBT and vPvB assessment****Results of PBT and vPvB assessment \*\*\***

The product contains no PBT substances  
The product contains no vPvB substances.

**12.6 Endocrine disrupting properties**

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**Endocrine disrupting properties with respect to the environment**

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

**12.7. 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	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
<b>14.1. UN number</b>	The product does not constitute a hazardous substance in land transport.	The product does not constitute a hazardous substance in sea transport.	The product does not constitute a hazardous substance in air transport.

**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 (Germany) WGK 3

Remarks Derivation of WGK according to Annex 1 No. 5.2 AwSV

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

H302 Harmful if swallowed.  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.

**CLP categories listed in Chapter 3**

Acute Tox. 4 Acute toxicity, Category 4  
 Eye Irrit. 2 Eye irritation, Category 2  
 Skin Sens. 1 Skin sensitization, Category 1

**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.