



Safety Data Sheet

Complies Regulation (EC) No. 1907/2006 (REACH), Annex II,
modified according to Regulation (EC) 453/2010 - Europe

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RapidStain

1. Identification of the substance/mixture and of the supplier

Product name: RapidStain
Article number: ZR11050/11250
Application: Quick smear staining
In vitro diagnostics
Manufacturer: ANTIGENES, Hustadtring 151, 44801 Bochum, Germany
Homepage: www.antigenes.de
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2. Hazards

2.1 Classification and labeling

Classification according to Regulation (EC) No. 1272/2008. Classification according to Directive 67/548 / EEC or Directive 1999/45 / EC. Labeling according to Regulation (EC) No. 1272/2008. The substance / product is classified and labeled according to the CLP Regulation.

Methanol



Flammable



Health Hazard



Toxic

Special risks and safety tips

R11 Highly flammable.
R39/R23/R24/Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
S1/S2 Keep locked up and out of the reach of children.
S7 Keep container tightly closed.
S16 Keep away from sources of ignition — No smoking.
S36/S37 Wear suitable protective clothing and gloves.
S45 In case of accident or if you feel unwell, seek medical advice immediately.

Hazard and safety instructions

H225 Highly flammable liquid and vapour.
H301/H311/H331 Toxic if swallowed, in contact with skin or if inhaled
H370 Causes damage to organs.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302/P352 IF ON SKIN: Wash with plenty of water.

Triphenylmethane

Special risks and safety tips

no R- and S-phrases

Hazard and safety instructions

no H- and P-phrases

Eosine Y

Special risks and safety tips

R36 Irritating to eyes.

Hazard and safety instructions

H319 Causes serious eye irritation.
P280 Wear protective gloves/protective clothing/eye protection/face protection.



Harmful

P305/P351/P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337/P313 If eye irritation persists: get medical advice/attention.

Sodium azide



Toxic



Environmental Hazard

Special risks and safety tips

R28 Very toxic if swallowed.
R32 Contact with acids liberates very toxic gas.
R50/R53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S1/S2 Keep locked up and out of the reach of children.
S28 After contact with skin, wash immediately with plenty of water.
S45 In case of accident or if you feel unwell, seek medical advice immediately.
S60 This material and its container must be disposed of as hazardous waste.
S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets.

Hazard and safety instructions

H300 Fatal if swallowed.
H410 Toxic to aquatic life.
EUH 032 Contact with acids liberates very toxic gas.
P273 Avoid release to the environment.
P310 Immediately call a POISON CENTER/doctor/...

Methylene blue



Harmful

Special risks and safety tips

R22 Harmful if swallowed.
no S-phrases

Hazard and safety instructions

H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P305/P351/P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Azur A



Corrosive

Special risks and safety tips

R41 Risk of serious damage to eyes.
no S-phrases

Hazard and safety instructions

H318 Causes serious eye damage.
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.

2.2 Other hazard statements

All chemicals are potentially dangerous. They are therefore only be handled by specially trained personnel with the necessary care.

3. Composition/ingredients

Compounds	Reagents	CAS-Code	Quantity
Solution 1	Methanol	67-56-1	>99 %
	Triphenylmethane	519-73-3	<1 %
Solution 2	Eosin Y	17372-87-1	<1 %
	Sodium azide	26628-22-8	<1 %
Solution 3	H ₂ O	7732-18-5	>98 %
	Methylene blue-	92-32-0	<1 %
	Azur A	531-53-3	<1 %
	Sodium azide	26628-22-8	<1 %
	H ₂ O	7732-18-5	>97 %

4. First aid measures

4.1 Description of first aid measures

After inhalation of dusts: supply fresh air; if any symptoms occur seek medical advice.

After skin contact: wash with water.

After eye contact: rinse with open eyelid for 10 minutes under running water and seek medical advice.

After swallowing: rinse mouth and then drink water.

If symptoms persist seek medical advice.

4.2 The most important acute and delayed symptoms and effects

Cause irritation, cough, stomach and intestinal disorders

4.3 Indication of immediate medical attention and special treatment

Skin contact: rinse out quickly and thoroughly with water. Continue to monitor skin. Consult a doctor if any swelling occurs.

Revenue: immediately spit out and rinse thoroughly with water. If any discomfort is felt, consult a doctor immediately.

Eyes: Rinse immediately with an eyewash. Rinse the eyes thoroughly under running tap water. Keep an eye on the eyesight and look for a doctor during the deterioration.

Inhalation: Immediately breathe fresh air, rest and breathe in and out several times. Call a physician if the deterioration occurs.

5. Fire fighting measures

5.1 Extinguishing media

Suitable extinguishing agents: Use fire fighting measures that suit the environment.

Unsuitable extinguishing agents: for this substance / mixture no limitations of extinguishing agents are known.

5.2 Special hazards arising from the substance or mixture

Product non-combustible.

Ambient fire may liberate hazardous vapors.

In case of fire can be released: Carbon monoxide and carbon.

5.3 Advice for firefighters

Protective equipment: Wear self-contained breathing apparatus.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid skin and eye contact. Do not breathe dust.

6.2 Environmental precautions

Do not flush into sewers or waterways.

6.3 Methods and material for containment and cleaning up

Pick up mechanically. Dispose of the captured material properly. Clean the area with gloves and masks with water and dry thoroughly. Air the room. Wash coat and contaminated clothing.

7 Handling and storage

Store at room temperature (15-25°C).

8 Exposure controls/personal protection

Wear gloves, mask and coat while handling during the execution. Avoid smoking and acting with high heat-generating appliances.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

	Solution 1	Solution 2	Solution 3
Aggregate state	liquid	liquid	liquid
Color			green
Odor	alcoholic	odorless	odorless
Melting point	not determined	not determined	not determined
Boiling point	not determined	not determined	not determined
Inflammability	not determined	not determined	not determined
Firing point	not determined	not determined	not determined
Steam pressure	not determined	not determined	not determined
Relative density	not determined	not determined	not determined
Solubility	not determined	not determined	not determined
Viscosity	not determined	not determined	not determined
Explosive properties	not determined	not determined	not determined
Oxidizing properties	not determined	not determined	not determined

Explosion limits | not determined | not determined | not determined |

9.2 Other information: none

10 Stability and reactivity

	Solution 1	Solution 2
Reactivity	the product has not been tested	the product has not been tested
Chemical stability	stable when properly stored and handled	stable when properly stored and handled
Thermal decomposition / conditions to be avoided	no decomposition if used according to specifications	no decomposition if used according to specifications
Possibility of hazardous reactions	reactions with strong oxidizing agents	reactions with strong oxidizing agents
Conditions to avoid	avoid strong heating no further relevant information available	avoid strong heating no further relevant information available
Incompatible materials	oxidizing agents	oxidizing agents
Hazardous decomposition products	carbon monoxide and carbon dioxide, nitrous gases, hydrogen chloride (HCl)	carbon monoxide and carbon dioxide, nitrous gases, hydrogen chloride (HCl)
	Solution 3	
Reactivity	the product has not been tested	
Chemical stability	stable when properly stored and handled	
Thermal decomposition / conditions to be avoided	no decomposition if used according to specifications	
Possibility of hazardous reactions	reactions with strong oxidizing agents	
Conditions to avoid	avoid strong heating no further relevant information available	
Incompatible materials	oxidizing agents	
Hazardous decomposition products	carbon monoxide and carbon dioxide, nitrous gases, hydrogen chloride (HCl)	

11 Toxicological information (based on individual ingredients of the solution(s))**Methanol****Dangerous health effects****Classification-relevant LD₅₀ / LC₅₀ values:** LD₅₀ 5628 mg / kg (oral, rat):**Acute inhalation toxicity:** LC₅₀ 64000 ppm (V) / 4h (inhalation, rat):**Contact with skin and mucous membranes:** leads to irritation**Serious eye damage / eye irritation:** Contact with eyes leads to irritation**Respiratory or skin sensitization:** not determined**Germ cell mutagenicity:** not determined**Carcinogenicity:** not determined.**Reproductive toxicity:** not determined.**Specific target organ toxicity on single exposure:** no data available.**Specific target organ toxicity on repeated exposure:** no data available.**Aspiration hazard:** not determined**Additional toxicological information:** Ingestion causes nausea and vomiting. After absorption disorders of the CNS with drowsiness, dizziness, intoxication, blood pressure drop, disturbances of the breath and heart activity, narcosis and acidosis. Blindness caused by irreversible damage to the optic nerve. Symptoms generally occur only after a latency of several hours.**Triphenylmethane****Dangerous health effects****Classification-relevant LD₅₀ / LC₅₀ values:****LD₅₀ / LC₅₀ values relevant for setting:** Quantitative data on the toxicity of this product are not available.**Acute dermal toxicity:** no data available.**Skin corrosion / irritation:** no irritation.**Primary irritation****Germ cell mutagenicity:** no data available.**Carcinogenicity:** no data available.**Reproductive toxicity:** no data available.**Specific target organ toxicity on single exposure:** no data available.

Specific target organ toxicity on repeated exposure: no data available.
Aspiration hazard: no data available.

Eosin Y**Dangerous health effects****Classification-relevant LD₅₀ / LC₅₀ values:****Acute oral toxicity:** LD₅₀ 2344 mg / kg (oral, rat)**Acute inhalation toxicity: Symptoms:** possible effects: irritation of the respiratory tract.**Acute dermal toxicity:** no data available.**Skin corrosion / irritation:** no irritation.**Primary irritation****Serious eye damage / eye irritation:** Causes severe irritation.

May cause sensitization by light.

Germ cell mutagenicity: Genotoxicity in vitro Ames Test result: negative (Lit.).**Carcinogenicity:** no data available.**Reproductive toxicity:** no data available.**Teratogenicity:** no data available.**Specific target organ toxicity for single exposure:** no data available.**Specific target organ toxicity on repeated exposure:** no data available.**Aspiration hazard:** no data available.

Sodium azide**Dangerous health effects****Classification-relevant LD₅₀ / LC₅₀ values:****Acute oral toxicity:** LD₅₀ 27 mg / kg (oral, rat)**Acute inhalation toxicity:** no data known.**Acute dermal toxicity:** LD₅₀ 20 mg / kg. (rabbit)**Skin corrosion / irritation:** slight irritation. Risk of skin resorption.**Serious eye damage / eye irritation:** Irritation. Resorption.**Primary irritation after inhalation:** mucous membrane irritation. Absorption after inhalation of dusts. Pulmonary edema possible after latency.**Sensitization:** no sensitizing effects known.**Germ cell mutagenicity:** no data available.**Carcinogenicity:** no data available.**Aspiration hazard:** no classification for aspiration toxicity.**Reproductive toxicity** no data available**Specific target organ toxicity for single exposure:** not classified as target-toxic**Specific target organ toxicity on repeated exposure:** not classified as target antidepressant**Other toxicological information:** The product is to be handled with special caution.

After swallowing: gastrointestinal disturbances, nausea, vomiting, and diarrhea.

Systemic effects: dizziness, blurred vision, convulsions, cardiac arrhythmias, dyspnea, unconsciousness and death.

Methylene blue**Dangerous health effects****Classification-relevant LD₅₀ / LC₅₀ values:** no data available.**Primary irritation****Skin corrosion / irritation:** no data available.**Serious eye damage / irritation:** no data available.**Respiratory or skin sensitization:** no data available.**Other information (for experimental toxicology):** The product should be handled with the usual chemical precautions. CMR effects (carcinogenic, mutagenic and reproductive toxicity).**Germ cell mutagenicity:** no data available.**Carcinogenicity:** no data available.**Reproductive toxicity:** no data available.**Specific target organ toxicity for single exposure:** no data available.**Specific target organ toxicity on repeated exposure:** no data available.**Aspiration hazard:** no data available.

Azur A**Dangerous health effects****Classification-relevant LD₅₀ / LC₅₀ values:** Quantitative data on the toxicity of this product are not available.**Primary irritation**

On the skin: no data available.

On the eye: strong irritation with danger of serious eye damage.

After inhalation: no data available.

Sensitization: no sensitizing effects known.

Germ cell mutagenicity: no data available.

Carcinogenicity: no data available.

Reproductive toxicity: no data available.

Aspiration hazard: no data available.

Specific target organ toxicity in one-day exposure: the substance or mixture is not classified as a target antidepressant, one-off exposure.

Specific target organ toxicity in the case of repeated exposure: the substance or mixture is not classified as a target antidepressant, repeated exposure.

Further information: The toxicological properties of the product have not yet been fully investigated. Hazardous properties cannot be excluded. The product must be handled with the care necessary for chemicals.

12 Ecological information

Potential damages unknown. Do not empty into drains / groundwater / soil.

13 Disposal considerations

Used solutions and solutions that are past life must be disposed of as hazardous waste, it is to follow the local guidelines; do not release to drains, groundwater and/or soil.

14 Transport information

Not classified in transport of dangerous goods.

15 Regulatory information

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

National regulations: no

Restriction of occupation: no

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out

16 Other information

All chemicals are potentially dangerous. Therefore they have to be handled only by specially trained personnel with the necessary care. Although certain hazards are described herein, we cannot guarantee that these are the only hazards. This information is based on our present knowledge; however, it offers no assurance of product properties and establishes no contract legal rights. To our experience and the information provided the product does not have any harmful effects when used and handled according to specifications.