

# SAFETY DATA SHEET

## *TASS01\_ Trichrome Masson Stain Kit*

### Section 1. Identification

**GHS product identifier :**

Trichrome Masson Stain Kit

**Product Code:**

TASS01

**Other means of identification:**

Not available.

**Supplier/Manufacturer :**

BioTnA Inc.

3F-1., Qixian 2nd Rd., Qianjin Dist., Kaohsiung  
City 801, Taiwan

**In case of emergency :**

+886-7-2612017

### Section 2. Hazards identification

#### **1. Biebrich scarlet-acid fuchsin solution**

**OSHA/HCS status:**

This material is considered hazardous according to  
Regulation (EC) No 1272/2008.

**Classification of the substance or mixture:**

Skin Irritation - Category 2

Eye Irritation - Category 2A

**GHS label elements Hazard pictograms:**



**Signal word :**

Warning

**Hazard statements :**

H319 - Causes serious eye irritation.

H412 - Harmful to aquatic life with long lasting  
effects.

**Precautionary statements Prevention :**

Obtain special instructions before use. Do not handle  
until all safety precautions have been read and  
understood. Use personal protective equipment as  
required. Wear protective gloves. Wear eye or face  
protection. Avoid breathing vapor. Wash hands  
thoroughly after handling. Contaminated work  
clothing should not be allowed out of the workplace.

**Response:**

IF exposed or concerned: Get medical attention. IF  
ON SKIN: Wash with plenty of soap and water. Wash

## Trichrome Masson Stain Kit

**Storage:**

**Disposal:**

**Hazards not otherwise classified:**

### 2. Phosphotungstic acid

**OSHA/HCS status:**

**Classification of the substance or mixture:**

**GHS label elements Hazard pictograms:**

**Signal word :**

**Hazard statements :**

**Precautionary statements Prevention :**

**Response:**

contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

Not applicable..

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

None known.

This material is considered hazardous according to Regulation (EC) No 1272/2008.

Skin corrosion/ irritation -Category 1

Hazardous to the aquatic environment, chronic Hazard -Category 3

Acute toxicity, dermal - Category 4



Danger

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H412 Harmful to aquatic life with long lasting effects.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P273 Avoid release to the environment.

IF exposed or concerned: Get medical attention. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes.

## Trichrome Masson Stain Kit

**Storage:**

**Disposal:**

**Hazards not otherwise classified:**

### 3. Phosphomolybdic acid

**OSHA/HCS status:**

**Classification of the substance or mixture:**

**GHS label elements Hazard pictograms:**

**Signal word :**

**Hazard statements :**

**Precautionary statements Prevention :**

Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

Not applicable..

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Contains Sodium iodate.

May produce an allergic reaction.

This material is considered hazardous according to Regulation (EC) No 1272/2008.

Oxidizing liquids; oxidizing solids - Category 2.

Skin corrosion/ irritation - Category 1.



Danger

H272 May intensify fire, oxidizer

H314 Causes severe skin burns and eye damage.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection

P301 + P330 + P331 IF SWALLOWED: Rinse mouth.

Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair):

Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.

P304 + P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.

P310 Immediately call a POISON CENTER or doctor/physician.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with

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### Response:

water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF exposed or concerned: Get medical attention. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

### Storage:

Store in a well-ventilated place. Keep container tightly closed. Keep cool.

### Disposal:

Dispose of contents and container in accordance with all local, regional, national and international regulations.

### Hazards not otherwise classified:

None known.

## 4. Aniline blue solution

### OSHA/HCS status:

This material is considered hazardous according to Regulation (EC) No 1272/2008.

### Classification of the substance or mixture:

Skin irritation-Category 2

Eye irritation-Category 2A

### GHS label elements Hazard pictograms:



### Signal word :

Warning.

### Hazard statements :

H315 Causes skin irritation

H319 Causes serious eye irritation

### Precautionary statements Prevention :

P302+ P352 - IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 - IF IN EYES: Rinse cautiously with water for several minutes.

### Response:

IF exposed or concerned: Get medical attention. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes.

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Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

### Storage:

Store in a well-ventilated place. Keep container tightly closed. Keep cool.

### Disposal:

Dispose of contents and container in accordance with all local, regional, national and international regulations.

### Hazards not otherwise classified:

None known.

## Section 3. Composition/information on ingredients

### Substance/mixture: Mixture

#### 1. Biebrich scarlet-acid fuchsin solution

Ingredient name	Wt%	CAS number
Water	>90	7732-18-5
Acetic acid	<1	64-19-7
Biebrich scarlet	<5	4196-99-0
Fuchsin acid	<1	3244-88-0

#### 2. Phosphotungstic acid

Ingredient name	Wt%	CAS number
Water	>80	7732-18-5
Phosphotungstic acid	<10	12501-23-4

#### 3. Phosphomolybdic acid

Ingredient name	Wt%	CAS number
Phosphomolybdic acid hydrate	<10	51429-74-4
Water	>85	7732-18-5

#### 4. Aniline blue solution

Ingredient name	Wt%	CAS number
Acetic acid	<2	64-19-7
Water	>85	7732-18-5
Aniline Blue	<5	28631-66-5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### Description of necessary first aid measures

#### Eye contact:

Immediately flush eyes with plenty of water, also

**Inhalation:**

lifting the upper and lower eyelids. Continue to rinse for at least 10 minutes. Get medical attention immediately.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately if symptoms occur.

**Skin contact:**

Wash with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it. Continue to rinse for at least 10 minutes. Get medical attention immediately if symptoms occur.

**Ingestion:**

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

**Most important symptoms/effects, acute and delayed Potential acute health effects**

None reasonably foreseeable

**Section 5. Fire-fighting measures**

**Extinguishing media**

**1. Biebrich scarlet-acid fuchsin solution**

**Suitable extinguishing media:**

Dry chemical, carbon dioxide, alcohol foam, water

**Unsuitable extinguishing media:**

None known.

**Specific hazards arising from the chemical :**

None known.

**Hazardous thermal decomposition products:**

No specific data

**Special protective actions for fire-fighters:**

Fire-fighters should wear appropriate protective equipment and self-contained breathing equipment for fire-fighters apparatus (SCBA) with a full face-

## 2. Phosphotungstic acid

**Suitable extinguishing media:**

**Unsuitable extinguishing media:**

**Specific hazards arising from the chemical :**

**Hazardous thermal decomposition products:**

**Special protective actions for fire-fighters:**

piece operated in positive pressure mode.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

None known.

Oxides of phosphorus, Tungsten oxide.

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

Fire-fighters should wear appropriate protective equipment and self-contained breathing equipment for fire-fighters apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 3. Phosphomolybdic acid

**Suitable extinguishing media:**

**Unsuitable extinguishing media:**

**Specific hazards arising from the chemical :**

**Hazardous thermal decomposition products:**

**Special protective actions for fire-fighters:**

Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>)

Do not use a heavy water stream.

Formation of toxic gases is possible during heating or in case of fire. Non-combustible.

Oxides of phosphorus. Thermal decomposition can lead to release of irritating gases and vapors.

Fire-fighters should wear appropriate protective equipment and self-contained breathing equipment for fire-fighters apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 4. Aniline blue solution

**Suitable extinguishing media:**

**Unsuitable extinguishing media:**

**Specific hazards arising from the chemical :**

**Hazardous thermal decomposition products:**

**Special protective actions for fire-fighters:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

None known.

In case of fire, the following can be released: Carbon monoxide and carbon dioxide Sulphur oxides (SO<sub>x</sub>)  
Non-combustible.

None known.

Fire-fighters should wear appropriate protective equipment and self-contained breathing equipment for fire-fighters apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

## Personal precautions, protective equipment and emergency procedures

### For non-emergency personnel:

Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

### For emergency responders :

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

### Environmental precautions:

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

## Methods and materials for containment and cleaning up

### Small spill :

Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

### Large spill :

Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

#### Protective measures:

Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on



skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Advice on general occupational hygiene:**

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**Conditions for safe storage, including any incompatibilities:**

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

**Section 8. Exposure controls/personal protection**

**Control parameters**

**1. Biebrich scarlet-acid fuchsin solution**

Ingredient name	CAS-No	Control parameters	Basis
acetic acid	64-19-7	STEL- 20ppm 15 min. TWA-10ppm 8 hours.	Standards of Permissible Exposure Limits in Workplace

**2. Phosphotungstic acid**

Ingredient name	CAS-No	Control parameters	Basis
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Phosphotungstic acid	12501-23-4	TWA: 3 mg/m <sup>3</sup> 8 hours	-
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### 3. Phosphomolybdic acid

Ingredient name	CAS-No	Control parameters	Basis
Phosphomolybdic acid	51429-74-4	TWA: 0.5 mg/m <sup>3</sup> 8 hours	-

### 4. Aniline blue solution

Ingredient name	CAS-No	Control parameters	Basis
acetic acid	64-19-7	STEL- 20ppm 15 min. TWA-10ppm 8 hours.	Standards of Permissible Exposure Limits in Workplace

#### Appropriate engineering controls :

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### Environmental exposure controls :

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

#### Individual protection measures

##### Hygiene measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing.

Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

##### Eye/face protection:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/ or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

#### Skin protection

##### Hand protection :

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment

indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

### Body protection:

Personal protective equipment for the body should be selected based on the task being performed and the risks involved.

### Other skin protection:

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved.

### Respiratory protection:

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

## Section 9. Physical and chemical properties

### 1. Biebrich scarlet-acid fuchsin solution

Physical state:	Liquid.
Color:	Dark red.
Flash point:	Not available.
Auto-ignition temperature:	Not available.
Flammable limits:	Not available.
Molecular weight:	Not applicable.
Molecular formula:	Not applicable.
pH:	Not applicable.
Boiling/condensation point:	Not available.
Melting/freezing point:	Not available.
Relative density:	Not available.
Vapor pressure:	Not available.
Vapor density:	Not available.
Volatility:	Not available.

## Trichrome Masson Stain Kit

<b>Evaporation rate:</b>	Not available.
<b>Viscosity:</b>	Not available.
<b>Solubility:</b>	Easily soluble in the following materials: cold water and hot water

### 2. Phosphotungstic acid

<b>Physical state:</b>	Liquid.
<b>Color:</b>	Clear. Colorless..
<b>Flash point:</b>	Not available.
<b>Auto-ignition temperature:</b>	Not available.
<b>Flammable limits:</b>	Not available.
<b>Molecular weight:</b>	Not applicable.
<b>Molecular formula:</b>	Not applicable.
<b>pH:</b>	Not applicable.
<b>Boiling/condensation point:</b>	Not available.
<b>Melting/freezing point:</b>	Not available.
<b>Relative density:</b>	Not available.
<b>Vapor pressure:</b>	Not available.
<b>Vapor density:</b>	Not available.
<b>Volatility:</b>	Not available.
<b>Evaporation rate:</b>	Not available.
<b>Viscosity:</b>	Not available.
<b>Solubility:</b>	Water solubility :miscible in any proportion.

### 3. Phosphomolybdic acid

<b>Physical state:</b>	Liquid.
<b>Color:</b>	Clear.light yellow.
<b>Flash point:</b>	Not available.
<b>Auto-ignition temperature:</b>	Not available.
<b>Flammable limits:</b>	Not available.
<b>Molecular weight:</b>	Not applicable.
<b>Molecular formula:</b>	Not applicable.
<b>pH:</b>	Not applicable.
<b>Boiling/condensation point:</b>	Not available.
<b>Melting/freezing point:</b>	Not available.
<b>Relative density:</b>	Not available.
<b>Vapor pressure:</b>	Not available.
<b>Vapor density:</b>	Not available.
<b>Volatility:</b>	Not available.
<b>Evaporation rate:</b>	Not available.

## Trichrome Masson Stain Kit

<b>Viscosity:</b>	Not available.
<b>Solubility:</b>	Easily soluble in the following materials: cold water and hot water
<b>4. Aniline blue solution</b>	
<b>Physical state:</b>	Liquid.
<b>Color:</b>	Dark Blue
<b>Flash point:</b>	Not available.
<b>Auto-ignition temperature:</b>	Not available.
<b>Flammable limits:</b>	Not available.
<b>Molecular weight:</b>	Not applicable.
<b>Molecular formula:</b>	Not applicable.
<b>pH:</b>	Not applicable.
<b>Boiling/condensation point:</b>	Not available.
<b>Melting/freezing point:</b>	Not available.
<b>Relative density:</b>	Not available.
<b>Vapor pressure:</b>	Not available.
<b>Vapor density:</b>	Not available.
<b>Volatility:</b>	Not available.
<b>Evaporation rate:</b>	Not available.
<b>Viscosity:</b>	Not available.
<b>Solubility:</b>	Easily soluble in the following materials: cold water and hot water

## Section 10. Stability and reactivity

### 1. Biebrich scarlet-acid fuchsin solution

<b>Reactivity:</b>	No data available.
<b>Chemical stability:</b>	The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
<b>Possibility of hazardous:</b>	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid:</b>	No specific data.
<b>Incompatible materials:</b>	Oxidizers, Strong Acids, Strong Bases
<b>Hazardous decomposition:</b>	Thermal-oxidation degradation can produce oxides of carbon. Toxic gases and vapors.

### 2. Phosphotungstic acid

<b>Reactivity:</b>	No data available.
<b>Chemical stability:</b>	The material is stable under normal ambient and

**Possibility of hazardous:**

**Conditions to avoid:**

**Incompatible materials:**

**Hazardous decomposition:**

### 3. Phosphomolybdic acid

**Reactivity:**

**Chemical stability:**

**Possibility of hazardous:**

**Conditions to avoid:**

**Incompatible materials:**

**Hazardous decomposition:**

### 4. Aniline blue solution

**Reactivity:**

**Chemical stability:**

**Possibility of hazardous:**

**Conditions to avoid:**

**Incompatible materials:**

**Hazardous decomposition:**

anticipated storage and handling conditions of temperature and pressure.

Violent reactions possible with: The generally known reaction partners of water.

Direct sunlight.

Strong bases, Strong oxidizing agents

Hazardous combustion products: see section 5.

No data available.

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

No additional information available.

Direct sunlight.

No additional information available.

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous combustion products: see section 5.

No relevant data available.

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

No hazardous reactions known.

I Fire, static electricity, direct sunlight.

Strong oxidizing agents, Bases, Acids, Metals.

Carbon monoxide, carbon dioxide, nitrogen oxides

## Section 11. Toxicological information

### Information on toxicological effects

#### 1. Biebrich scarlet-acid fuchsin solution

##### Acute toxicity

Product/ingredient name	Result	Species	Dose
Water	-	-	-
Acetic acid	LD50 Oral	Rat	3.310 mg/kg

## Trichrome Masson Stain Kit

	LC50 Inhalation	Mouse	5620 ppm/1H
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<b>Irritation/Corrosion:</b>	Eyes - Severe irritant. Skin irritation
<b>Sensitization:</b>	Not available.
<b>Mutagenicity:</b>	Not available.
<b>Carcinogenicity:</b>	Not available.
<b>Reproductive toxicity:</b>	Not available.
<b>Teratogenicity:</b>	Not available.
<b>Specific target organ toxicity (single exposure)</b>	
<b>Specific target organ toxicity (repeated exposure) :</b>	Not available.
<b>Information on the likely routes of exposure:</b>	Dermal contact. Eye contact. Ingestion..
<b>Potential acute health effects:</b>	Not available.
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	
<b>Eye contact :</b>	Causes serious eye irritation
<b>Inhalation :</b>	No specific data.
<b>Skin contact :</b>	Causes severe burns.
<b>Ingestion:</b>	Adverse symptoms may include the following: stomach pains
<b>Delayed and immediate effects and also chronic effects from short and long term exposure</b>	
<b>Short term exposure</b>	
<b>Potential immediate effects:</b>	Not available.
<b>Potential delayed effects:</b>	Not available.
<b>Long term exposure</b>	
<b>Potential immediate effects:</b>	Not available.
<b>Potential delayed effects:</b>	Not available.
<b>Potential chronic health effects:</b>	Not available.
<b>General:</b>	Not available.
<b>Carcinogenicity:</b>	Not listed
<b>Mutagenicity:</b>	No known significant effects or critical hazards.
<b>Teratogenicity:</b>	No known significant effects or critical hazards.
<b>Developmental effects:</b>	No known significant effects or critical hazards.
<b>Fertility effects:</b>	No known significant effects or critical hazards.

### Numerical measures of toxicity /Acute toxicity estimates

Route	ATE value
Oral	N/A
Inhalation (vapors)	N/A

## 2. Phosphotungstic acid

## Trichrome Masson Stain Kit

### Acute toxicity

Product/ingredient name	Result	Species	Dose
Water	-	-	-
Phosphotungstic acid , hydrate	LD50 Oral	Rat	300 - 2,000 mg/kg

**Irritation/Corrosion:** Causes serious eye damage.

**Sensitization:** Not available.

**Mutagenicity:** Not available.

**Carcinogenicity:** Not available.

**Reproductive toxicity:** Not available.

**Teratogenicity:** Not available.

### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
-	-	-	-

### Specific target organ toxicity (repeated exposure)

**Aspiration hazard:** No data available

**Information on the likely routes of exposure:** No data available

**Potential acute health effects:** Not available

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact :** Causes serious eye damage, risk of blindness.

**Inhalation :** No specific data.

**Skin contact :** Mixture causes burns.

**Ingestion:** If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

**Potential immediate effects:** Not available.

**Potential delayed effects:** Not available.

#### Long term exposure

**Potential immediate effects:** Not available.

**Potential delayed effects:** Not available.

**Potential chronic health effects:** Not available.

**General:** Not available.

**Carcinogenicity:** Not listed

**Mutagenicity:** No known significant effects or critical hazards.



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<b>Teratogenicity:</b>	No known significant effects or critical hazards.
<b>Developmental effects:</b>	No known significant effects or critical hazards.
<b>Fertility effects:</b>	No known significant effects or critical hazards.

### Numerical measures of toxicity /Acute toxicity estimates

Route	ATE value
-	-

### 3. Phosphomolybdic acid

#### Acute toxicity

Product/ingredient name	Result	Species	Dose
Phosphomolybdic acid	LD50 Oral	Rat	Female >300 mg/kg

<b>Irritation/Corrosion:</b>	Causes severe skin burns and eye damage.
<b>Sensitization:</b>	Not available.
<b>Mutagenicity:</b>	Not available.
<b>Carcinogenicity:</b>	Not available.
<b>Reproductive toxicity:</b>	Not available.
<b>Teratogenicity:</b>	Not available.

#### Specific target organ toxicity (single exposure)

**Specific target organ toxicity (repeated exposure) :** Not available.

**Aspiration hazard:** Not available.

**Information on the likely routes of exposure:** Not available.

**Potential acute health effects:** Not available.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact :** Causes serious eye irritation

**Inhalation :** Irritant effects.

**Skin contact :** Frequently or prolonged contact with skin may cause dermal irritation.

**Ingestion:** Not available.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

##### Short term exposure

**Potential immediate effects:** Not available.

**Potential delayed effects:** Not available.

##### Long term exposure

**Potential immediate effects:** Not available.

**Potential delayed effects:** Not available.

**Potential chronic health effects:** Not available.

## Trichrome Masson Stain Kit

<b>General:</b>	Not available.
<b>Carcinogenicity:</b>	May cause cancer. Risk of cancer depends on duration and level of exposure.
<b>Mutagenicity:</b>	Suspected of causing genetic defects.
<b>Teratogenicity:</b>	No known significant effects or critical hazards.
<b>Developmental effects:</b>	No known significant effects or critical hazards.
<b>Fertility effects:</b>	No known significant effects or critical hazards.

### 4. Aniline blue solution

#### Acute toxicity

Product/ingredient name	Result	Species	Dose
Acetic acid	LD50 Oral	Rat	3.310 mg/kg
	LC50 Inhalation	Mouse	5620 ppm/1H

**Irritation/Corrosion:** Irritating to eyes and skin..

**Sensitization:** Not available.

**Mutagenicity:** Not available.

**Carcinogenicity:** Not available.

**Reproductive toxicity:** Not available.

**Teratogenicity:** Not available.

#### Specific target organ toxicity (single exposure)

**Specific target organ toxicity (repeated exposure) :** Not available.

**Aspiration hazard:** Not available.

**Information on the likely routes of exposure:** Dermal contact. Eye contact. Ingestion..

**Potential acute health effects:** Causes serious eye irritation.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact :** Causes serious eye irritation

**Inhalation :** Irritant effects.

**Skin contact :** Frequently or prolonged contact with skin may cause dermal irritation.

**Ingestion:** Not available.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

##### Short term exposure

**Potential immediate effects:** Not available.

**Potential delayed effects:** Not available.

##### Long term exposure

**Potential immediate effects:** Not available.

## Trichrome Masson Stain Kit

<b>Potential delayed effects:</b>	Not available.
<b>Potential chronic health effects:</b>	Not available.
<b>General:</b>	Not available.
<b>Carcinogenicity:</b>	May cause cancer. Risk of cancer depends on duration and level of exposure.
<b>Mutagenicity:</b>	Suspected of causing genetic defects.
<b>Teratogenicity:</b>	No known significant effects or critical hazards.
<b>Developmental effects:</b>	No known significant effects or critical hazards.
<b>Fertility effects:</b>	No known significant effects or critical hazards.

### Numerical measures of toxicity /Acute toxicity estimates

Route	ATE value
Dermal LD50 (rabbit)	ATE 107,629 mg/kg

## Section 12. Ecological information

### Toxicity

#### 1. Biebrich scarlet-acid fuchsin solution

ingredient name	Resul	Species	Exposure
Acetic acid	Acute EC50 >300,8 mg/l	Aquatic invertebrates	48 hours
	Acute LC50 >300,8 mg/l	Fish	96 hours

**Persistence and degradability:** Soluble in water, Persistence is unlikely, based on information available. Not relevant for inorganic substances.

**Bioaccumulative potential:** Not available.

#### Mobility in soil

**Soil/water partition coefficient (KOC):** The product is water soluble, and may spread in water systems Will likely be mobile in the environment due to its water solubility. Highly mobile in soils.

**Other adverse effects:** No known significant effects or critical hazards.

#### 2. Phosphotungstic acid

ingredient name	Resul	Species	Exposure
Phosphotungstic acid	Static test EC50 = 70.8mg/l	Daphnia magna (Water flea)	48 hours
	Static test ErC50 = 7.8 mg/l	Pseudokirchneriella subcapitata	72 hours
	Static test EC50 > 1,000 mg/l	activated sludge	3 hours

**Persistence and degradability:** Not available.

**Bioaccumulative potential:** Not available.

#### Mobility in soil

## Trichrome Masson Stain Kit

### Soil/water partition coefficient (KOC):

The product is water soluble, and may spread in water systems Will likely be mobile in the environment due to its water solubility. Highly mobile in soils.

### Other adverse effects:

No known significant effects or critical hazards.

### 3. Phosphomolybdic acid

ingredient name	Resul	Species	Exposure
Phosphomolybdic acid	Acute EC50 1.2 mg/l	Algae	72 hours

### Persistence and degradability:

Not available.

### Bioaccumulative potential:

Not available.

### Mobility in soil

#### Soil/water partition coefficient (KOC):

The product is water soluble, and may spread in water systems Will likely be mobile in the environment due to its water solubility. Highly mobile in soils.

### Other adverse effects:

No known significant effects or critical hazards.

### 4. Aniline blue solution

ingredient name	Resul	Species	Exposure
Acetic acid	Acute EC50 >300,8 mg/l	Aquatic invertebrates	48 hours
	Acute LC50 >300,8 mg/l	Fish	96 hours

### Persistence and degradability:

Not available.

### Bioaccumulative potential:

Not available.

### Mobility in soil

#### Soil/water partition coefficient (KOC):

The product is water soluble, and may spread in water systems Will likely be mobile in the environment due to its water solubility. Highly mobile in soils.

### Other adverse effects:

No known significant effects or critical hazards

## Section 13. Disposal considerations

### Disposal methods:

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

	ADR/RID Classification	IMDG Classification	IATA Classification
UN number	3316	3316	3316
UN proper shipping name	CHEMICAL KIT	CHEMICAL KIT	Chemical kit
Transport hazard class(es)	9	9	9
Packing group	II	II	II
Environmental hazards	No.	No.	No.
Additional information	-	-	-

### Special precautions for user:

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

### Transport in bulk according:

Not available.

## Section 15. Regulatory information

### Proposition 65

#### Chemicals known to cause cancer:

None of the ingredients is listed.

#### Chemicals known to cause reproductive toxicity:

None of the ingredients is listed.

#### Hazard symbol:

No listed.

#### Risk phrases:

irritating to eyes and skin

## Trichrome Masson Stain Kit

**Product related hazard information:** No listed.

**Water hazard class:** No listed.

### International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals  
Not listed.

### Montreal Protocol (Annexes A, B, C, E)

Not listed.

### Stockholm Convention on Persistent Organic Pollutants

Not listed.

### Rotterdam Convention on Prior Inform Consent (PIC)

Not listed.

### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

## Section 16. Other information

**Date of issue/Date of revision:** 01/09/2025.

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**Version:** 3

### Key to abbreviations :

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

Indicates information that has changed from previously issued version.

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