according to Regulation (EC) No. 1907/2006



# Special Stains Trich.III Blue Staining K

Version 1 . 0 Revision Date 06-29-2012 Print Date 05-13-2013

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

#### 1.1 Product identifier

Commercial Product Name : Special Stains Trich.III Blue Staining K

Mat.-No./ Genisys-No. : 05279364001

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

Recommended restrictions : For professional users only.

on use

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

Company : Ventana Medical Systems

1910 E. Innovation Park Drive

85755 Tucson AZ

E-mail address

Telephone : 1-800-227-2155 or 520-877-2155

Telefax

Responsible Department

In case of emergencies: : CHEMTREC 1-800-424-9300 (U.S. or

Canada)

1-703-527-3887 (International)

:

#### 2. Hazards identification

#### 2.1 Classification of the substance or mixture

# Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2 H225: Highly flammable liquid and vapour. Corrosive to metals, Category 1 H290: May be corrosive to metals.

Acute toxicity, Category 4 H302: Harmful if swallowed.

Skin corrosion, Category 1A H314: Causes severe skin burns and eye damage.

Skin sensitization, Category 1

Carcinogenicity, Category 2

Specific target organ toxicity - single

H317: May cause an allergic skin reaction.

H351: Suspected of causing cancer.

H371: May cause damage to organs.

exposure, Category 2

## Classification (67/548/EEC, 1999/45/EC)

Highly flammable R11: Highly flammable. Corrosive R35: Causes severe burns.

Carcinogenic Category 3 R40: Limited evidence of a carcinogenic effect.

Sensitising R43: May cause sensitization by skin contact.

Harmful R20/21/22, R68/20/21/22: Harmful by inhalation, in

contact with skin and if swallowed., Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

R 1: Explosive when dry.

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#### 2.2 Label elements

## Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



P210







Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.

H290 May be corrosive to metals. H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.
 H351 Suspected of causing cancer.
 H371 May cause damage to organs.

Precautionary statements : Prevention:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions

have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed.

P233 Keep container tightly closed.
P234 Keep only in original container.
P240 Ground/bond container and receiving

equipment.

P241 Use explosion-proof electrical/ ventilating/

lighting/ equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static

discharge.

P260 Do not breathe dust/ fume/ gas/ mist/

vapours/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this

product.

P272 Contaminated work clothing should not be

allowed out of the workplace.

P280 Wear protective gloves/ protective clothing/

eye protection/ face protection.

Response:

P301 + P312 IF SWALLOWED: Call a POISON CENTER

or doctor/ physician if you feel unwell.

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do

NOT induce vomiting.

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

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for breathing.

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

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

rinsing.

P309 + P311 IF exposed or if you feel unwell: Call a

POISON CENTER or doctor/ physician.

P310 Immediately call a POISON CENTER or

doctor/ physician.

P321 Specific treatment (see supplemental first

aid instructions on this label).

P333 + P313 If skin irritation or rash occurs: Get medical

advice/ attention.

P363 Wash contaminated clothing before reuse. P370 + P378 In case of fire: Use dry sand, dry chemical

or alcohol-resistant foam for extinction.

P390 Absorb spillage to prevent material

damage.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P406 Store in corrosive resistant stainless steel

container with a resistant inner liner.

Disposal:

P501 Dispose of contents/ container to an

approved waste disposal plant.

#### 2.3 Other hazards

No information available.

## 3. Composition/information on ingredients

## 3.2 Mixtures

## **Bouin's Solution**

## Classification (REGULATION (EC) No 1272/2008)

Skin corrosion, Category 1A H314: Causes severe skin burns and eye damage. Skin sensitization, Category 1 H317: May cause an allergic skin reaction.

Carcinogenicity, Category 2 H351: Suspected of causing cancer.

## Classification (67/548/EEC, 1999/45/EC)

Corrosive R35: Causes severe burns.

Carcinogenic Category 3 R40: Limited evidence of a carcinogenic effect. Sensitising R43: May cause sensitization by skin contact.

R 1: Explosive when dry.

## **Hazardous components**

Chemical Name	CAS-No.	Classification	Classification	Concentration

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	EC-No. Registration number	(67/548/EEC)	(REGULATION (EC) No 1272/2008)	[%]
acetic acid	64-19-7 200-580-7	R10 C; R35	Flam. Liq. 3; H226 Skin Corr. 1A; H314	>= 5 - < 10
formaldehyde	50-00-0 200-001-8	Carc.Cat.3; R40 T; R23/24/25 C; R34 R43	Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 Skin Corr. 1B; H314 Skin Sens. 1; H317 Carc. 2; H351	>= 3 - < 5

For the full text of the R-phrases mentioned in this Section, see Section 16. For the full text of the H-Statements mentioned in this Section, see Section 16.

# Hematoxylin A

# Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2 H225: Highly flammable liquid and vapour.

Acute toxicity, Category 4 H302: Harmful if swallowed.

Specific target organ toxicity - single H371: May cause damage to organs.

exposure, Category 2

# Classification (67/548/EEC, 1999/45/EC)

Highly flammable R11: Highly flammable.

Harmful R20/21/22, R68/20/21/22: Harmful by inhalation, in contact with skin and if swallowed., Harmful: possible risk of irreversible effects through

inhalation, in contact with skin and if swallowed.

## **Hazardous components**

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
ethanol	64-17-5 200-578-6	F; R11	Flam. Liq. 2; H225	>= 50 - <= 100
methanol	67-56-1 200-659-6	F; R11 T; R23/24/25- R39/23/24/25	Flam. Liq. 2; H225 Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 STOT SE 1; H370	>= 3 - < 10
propan-2-ol	67-63-0 200-661-7	F; R11 Xi; R36 R67	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	< 10

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haematoxylin	517-28-2 208-237-3	Xn; Xn; R22- R36/37/38	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335	< 10

For the full text of the R-phrases mentioned in this Section, see Section 16. For the full text of the H-Statements mentioned in this Section, see Section 16.

# Hematoxylin B

## Classification (REGULATION (EC) No 1272/2008)

Skin corrosion, Category 1A H314: Causes severe skin burns and eye damage.

Classification (67/548/EEC, 1999/45/EC)

Corrosive R35: Causes severe burns.

#### **Hazardous components**

Chemical Name	CAS-No.	Classification	Classification	Concentration
	EC-No.	(67/548/EEC)	(REGULATION	[%]
	Registration		(EC) No	
	number		1272/2008)	
Iron(III)-chloride	10025-77-1	Xn; Xn; R22	Acute Tox. 4; H302	< 5
hexahydrate	231-729-4	Xi; Xi; R38-R41	Skin Irrit. 2; H315	
			Eye Dam. 1; H318	

For the full text of the R-phrases mentioned in this Section, see Section 16. For the full text of the H-Statements mentioned in this Section, see Section 16.

#### Enhancer

# Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

## Classification (67/548/EEC, 1999/45/EC)

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

Remarks : No dangerous ingredients according to Regulation (EC) No.

1907/2006

#### Red

## Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3 H226: Flammable liquid and vapour.

Skin corrosion, Category 1A H314: Causes severe skin burns and eye damage.

according to Regulation (EC) No. 1907/2006



# Special Stains Trich.III Blue Staining K

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## Classification (67/548/EEC, 1999/45/EC)

Corrosive R35: Causes severe burns.

# **Hazardous components**

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
ethanol	64-17-5 200-578-6	F; R11	Flam. Liq. 2; H225	< 10
acetic acid	64-19-7 200-580-7	R10 C; R35	Flam. Liq. 3; H226 Skin Corr. 1A; H314	>= 1 - < 5

For the full text of the R-phrases mentioned in this Section, see Section 16. For the full text of the H-Statements mentioned in this Section, see Section 16.

#### Red 2

# Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

#### Classification (67/548/EEC, 1999/45/EC)

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

# **Hazardous components**

Chemical Name	CAS-No.	Classification	Classification	Concentration
	EC-No.	(67/548/EEC)	(REGULATION	[%]
	Registration		(EC) No	
	number		1272/2008)	
acetic acid	64-19-7	R10	Flam. Liq. 3; H226	>= 1 - < 3
	200-580-7	C; R35	Skin Corr. 1A;	
			H314	

For the full text of the R-phrases mentioned in this Section, see Section 16. For the full text of the H-Statements mentioned in this Section, see Section 16.

#### Mordant

# Classification (REGULATION (EC) No 1272/2008)

Skin corrosion, Category 1A H314: Causes severe skin burns and eye damage.

Classification (67/548/EEC, 1999/45/EC)

Corrosive R35: Causes severe burns.

## **Hazardous components**

according to Regulation (EC) No. 1907/2006



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Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Phosphormolybdänsäur e	51429-74-4	C; C; R34	Skin Corr. 1B; H314	>= 1 - < 5

For the full text of the R-phrases mentioned in this Section, see Section 16. For the full text of the H-Statements mentioned in this Section, see Section 16.

## Blue

# Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

## Classification (67/548/EEC, 1999/45/EC)

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

Remarks : No dangerous ingredients according to Regulation (EC) No.

1907/2006

#### Blue 2

## Classification (REGULATION (EC) No 1272/2008)

Corrosive to metals, Category 1 H290: May be corrosive to metals.

Skin corrosion, Category 1A H314: Causes severe skin burns and eye damage.

# Classification (67/548/EEC, 1999/45/EC)

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

# **Hazardous components**

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
hydrogen chloride	7647-01-0 231-595-7	C; R34 Xi; R37	Met. Corr. 1; H290 Skin Corr. 1B; H314 STOT SE 3; H335	>= 5 - < 10

For the full text of the R-phrases mentioned in this Section, see Section 16. For the full text of the H-Statements mentioned in this Section, see Section 16.

#### 4. First aid measures

#### 4.1 Description of first aid measures

General advice : Move out of dangerous area.

Consult a physician.

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Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : Move to fresh air.

If unconscious place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : Immediate medical treatment is necessary as untreated

wounds from corrosion of the skin heal slowly and with

difficulty.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Small amounts splashed into eyes can cause irreversible

tissue damage and blindness.

In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

Continue rinsing eyes during transport to hospital.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Keep respiratory tract clear. Do NOT induce vomiting.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : The first aid procedure should be established in consultation

with the doctor responsible for industrial medicine.

#### 5. Firefighting measures

## 5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam

Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

: High volume water jet

# 5.2 Special hazards arising from the substance or mixture

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Specific hazards during

firefighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

5.3 Advice for firefighters

for firefighters

Special protective equipment : Wear self contained breathing apparatus for fire fighting if

necessary.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored

separately in closed containments.

Use a water spray to cool fully closed containers.

#### 6. Accidental release measures

## 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

> Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

Refer to protective measures listed in sections 7 and 8. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2 Environmental precautions

**Environmental precautions** : Prevent product from entering drains.

> Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages

cannot be contained.

## 6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible

> absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to

local / national regulations (see section 13).

#### 6.4 Reference to other sections

Treat recovered material as described in the section "Disposal considerations".

# 7. Handling and storage

## 7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of aerosol.

Do not breathe vapours/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

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Smoking, eating and drinking should be prohibited in the application area.

Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.

Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used

To prevent leaks or spillages from spreading, provide a suitable liquid retention system.

Advice on protection against fire and explosion

Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge

(which might cause ignition of organic vapours).

Use only explosion-proof equipment.

Keep away from open flames, hot surfaces and sources of ignition.

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

Requirements for storage

areas and containers

: No smoking.

Keep container tightly closed in a dry and well-ventilated

place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage. Observe label precautions.

Electrical installations / working materials must comply with

the technological safety standards.

Further information on storage conditions

storage conditions

: See label or package insert

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : Laboratory chemicals

#### 8. Exposure controls/personal protection

# **Exposure Guidelines**

**Bouin's Solution** 

# Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Source
acetic acid	64-19-7	TWA	10 ppm	USA. ACGIH Threshold Limit Values (TLV)

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			•	
		STEL	15 ppm	USA. ACGIH Threshold Limit Values (TLV)
		TWA	10 ppm 25 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	15 ppm 37 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	10 ppm 25 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	10 ppm 25 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
formaldehyde	50-00-0	С	0.3 ppm	USA. ACGIH Threshold Limit Values (TLV)
		TWA	0.016 ppm	USA. NIOSH Recommended Exposure Limits
		С	0.1 ppm	USA. NIOSH Recommended Exposure Limits
		TWA	0.016 ppm	USA. NIOSH Recommended Exposure Limits
		С	0.1 ppm	USA. NIOSH Recommended Exposure Limits

# Hematoxylin A

# Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Source
ethanol	64-17-5	TWA	1,000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		TWA	1,000 ppm 1,900 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	1,000 ppm 1,900 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	1,000 ppm 1,900 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
methanol	67-56-1	TWA	200 ppm	USA. ACGIH Threshold Limit Values (TLV)

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		TWA	200 ppm	USA. ACGIH Threshold Limit Values (TLV)
		STEL	250 ppm	USA. ACGIH Threshold Limit Values (TLV)
		STEL	250 ppm	USA. ACGIH Threshold Limit Values (TLV)
		TWA	200 ppm 260 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	200 ppm 260 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	250 ppm 325 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	250 ppm 325 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	200 ppm 260 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	200 ppm 260 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	200 ppm 260 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		TWA	200 ppm 260 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		STEL	250 ppm 325 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		STEL	250 ppm 325 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
propan-2-ol	67-63-0	TWA	200 ppm	USA. ACGIH Threshold Limit Values (TLV)
		STEL	400 ppm	USA. ACGIH Threshold Limit Values (TLV)
		TWA	400 ppm 980 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	500 ppm 1,225 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	400 ppm	USA. Occupational

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	980 mg/m3	Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
TWA	400 ppm 980 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
STEL	500 ppm 1,225 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000

# Hematoxylin B

Contains no substances with occupational exposure limit values.

# Enhancer

Contains no substances with occupational exposure limit values.

# Red

# Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Source
ethanol	64-17-5	TWA	1,000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		TWA	1,000 ppm 1,900 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	1,000 ppm 1,900 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	1,000 ppm 1,900 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
acetic acid	64-19-7	TWA	10 ppm	USA. ACGIH Threshold Limit Values (TLV)
		STEL	15 ppm	USA. ACGIH Threshold Limit Values (TLV)
		TWA	10 ppm 25 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	15 ppm 37 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	10 ppm 25 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants

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 TWA
 10 ppm 25 mg/m3
 USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000

# Red 2 Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Source
acetic acid	64-19-7	TWA	10 ppm	USA. ACGIH Threshold Limit Values (TLV)
		STEL	15 ppm	USA. ACGIH Threshold Limit Values (TLV)
		TWA	10 ppm 25 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	15 ppm 37 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	10 ppm 25 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	10 ppm 25 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000

# Mordant

Contains no substances with occupational exposure limit values.

# Blue

Contains no substances with occupational exposure limit values.

# Blue 2

# Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Source
hydrogen chloride	7647-01-0	С	2 ppm	USA. ACGIH Threshold Limit Values (TLV)
		С	5 ppm 7 mg/m3	USA. NIOSH Recommended Exposure Limits
		С	5 ppm 7 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air

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			Contaminants
	С	5 ppm	USA. OSHA - TABLE Z-1
		7 mg/m3	Limits for Air
			Contaminants -
			1910.1000

# Personal protective equipment

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Hand protection

Protective gloves

Skin and body protection : impervious clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : In the case of vapour formation use a respirator with an

approved filter.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

# 9. Physical and chemical properties

# 9.1 Information on basic physical and chemical properties

Bouin's Solution

Appearance : liquid

Colour : yellow

Odour : formaldehyde-like

pH : 1.21

Melting point/range : no data available
Boiling point/boiling range : no data available
Flash point : not applicable
Lower explosion limit : no data available
Upper explosion limit : no data available
Vapour pressure : no data available
Density : 1.031 g/cm3

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Water solubility : completely miscible Partition coefficient: n-: no data available

octanol/water

Ignition temperature

: no data available

Thermal decomposition : Hazardous decomposition products formed under fire

conditions.

Viscosity, dynamic : no data available : Explosive when dry. Explosive properties

: The substance or mixture is not classified as oxidizing. Oxidizing properties

Hematoxylin A

: liquid Appearance

Colour : yellow-orange alcohol-like Odour

: 5.36 pН

: no data available Melting point/range

Boiling point/boiling range : 78 °C

: ca. 12.5 °C Flash point

Lower explosion limit : no data available Upper explosion limit : no data available Vapour pressure : no data available : 0.793 g/cm3 Density

Water solubility : completely miscible Partition coefficient: n-: no data available

octanol/water

: no data available Ignition temperature

Thermal decomposition : Hazardous decomposition products formed under fire

conditions.

Viscosity, dynamic : no data available

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Hematoxylin B

**Appearance** : liquid

Colour : yellow-orange Odour : very faint : 1.5 - 1.9 pН

Melting point/range : no data available Boiling point/boiling range : no data available Flash point : not applicable

according to Regulation (EC) No. 1907/2006



# Special Stains Trich.III Blue Staining K

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Flammability (solid, gas) : The product is not flammable.

Lower explosion limit : no data available Upper explosion limit : no data available Vapour pressure : no data available : completely miscible Water solubility

Partition coefficient: n-

octanol/water

: no data available

: no data available Ignition temperature : no data available Thermal decomposition Viscosity, dynamic : no data available

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Enhancer

**Appearance** : liquid

Colour : colourless Odour : none : acidic рΗ

Melting point/range : no data available Boiling point/boiling range : no data available Flash point : not applicable

: The product is not flammable. Flammability (solid, gas)

: no data available Lower explosion limit Upper explosion limit : no data available Vapour pressure : no data available Water solubility : completely miscible Partition coefficient: n-: no data available

octanol/water

Ignition temperature : no data available Thermal decomposition : no data available Viscosity, dynamic : no data available

: The substance or mixture is not classified as oxidizing. Oxidizing properties

Red

Appearance : liquid

Colour : red

Odour : slightvinegar-like

рΗ : 2-4

: no data available Melting point/range Boiling point/boiling range : no data available

according to Regulation (EC) No. 1907/2006



# Special Stains Trich.III Blue Staining K

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Flash point : ca. 57 °C

Lower explosion limit : no data available Upper explosion limit : no data available : no data available Vapour pressure : completely miscible Water solubility Partition coefficient: n-

octanol/water

: no data available

: no data available Ignition temperature : no data available Thermal decomposition Viscosity, dynamic : no data available

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Red 2

: liquid **Appearance** 

Colour : red

Odour : vinegar-like

: 2.48 рΗ

Melting point/range : no data available : no data available Boiling point/boiling range Flash point : not applicable

: The product is not flammable. Flammability (solid, gas)

: no data available Lower explosion limit Upper explosion limit : no data available : no data available Vapour pressure Density : 1.0048 g/cm3

Partition coefficient: n-

octanol/water

Water solubility

: completely miscible : no data available

Ignition temperature : no data available

Thermal decomposition : Hazardous decomposition products formed under fire

conditions.

: no data available Viscosity, dynamic

Mordant

Appearance : liquid

Colour : colourless Odour : none рΗ : 1.86

: no data available Melting point/range

according to Regulation (EC) No. 1907/2006



# Special Stains Trich.III Blue Staining K

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Boiling point/boiling range : no data available

Flash point : not applicable

Flammability (solid, gas) : The product is not flammable.

Lower explosion limit : no data available
Upper explosion limit : no data available
Vapour pressure : no data available

Density : 1.001 g/cm3

Water solubility
Partition coefficient: n-

octanol/water

completely miscibleno data available

Ignition temperature : no data available

Thermal decomposition : Hazardous decomposition products formed under fire

conditions.

Viscosity, dynamic : no data available

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Blue

Appearance : liquid

Colour : blue

Odour : slightvinegar-like

pH : acidic

Melting point/range : no data available
Boiling point/boiling range : no data available
Flash point : not applicable

Flammability (solid, gas) : The product is not flammable.

Lower explosion limit : no data available
Upper explosion limit : no data available
Vapour pressure : no data available
Water solubility : completely miscible
Partition coefficient: n- : no data available

octanol/water

Ignition temperature : no data available
Thermal decomposition : no data available
Viscosity, dynamic : no data available

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Blue 2

Appearance : liquid

Colour : blue

according to Regulation (EC) No. 1907/2006



# Special Stains Trich.III Blue Staining K

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Odour : none : 1.1 Hq

Melting point/range : no data available Boiling point/boiling range : no data available Flash point : not applicable

Flammability (solid, gas) : The product is not flammable.

Lower explosion limit : no data available Upper explosion limit : no data available Vapour pressure : no data available Water solubility : completely miscible Partition coefficient: n-

octanol/water

: no data available

Ignition temperature : no data available : no data available Thermal decomposition Viscosity, dynamic : no data available

Oxidizing properties : The substance or mixture is not classified as oxidizing.

## 9.2 Other information

Bouin's Solution

: no data available Conductivity Oxidising potential : no data available Surface tension : no data available

Hematoxylin A

: no data available Conductivity : no data available Oxidising potential : no data available Surface tension

Hematoxylin B

Conductivity : no data available Oxidising potential : no data available Surface tension : no data available

Enhancer

Conductivity : no data available Oxidising potential : no data available Surface tension : no data available

Red

: no data available Conductivity Oxidising potential : no data available Surface tension : no data available

Red 2

according to Regulation (EC) No. 1907/2006



# **Special Stains Trich.III Blue Staining K**

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Conductivity : no data available

Oxidising potential : no data available

Surface tension : no data available

Mordant

Conductivity : no data available
Oxidising potential : no data available
Surface tension : no data available

Blue

Conductivity : no data available
Oxidising potential : no data available
Surface tension : no data available

Blue 2

Conductivity : no data available
Oxidising potential : no data available
Surface tension : no data available

# 10. Stability and reactivity

# 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

## 10.2 Chemical stability

Stable under normal conditions.

## 10.3 Possibility of hazardous reactions

Hazardous reactions : Do not allow to dry.

Explosive when dry.

Reacts with the following substances:

Acids Bases

Oxidizing agents Reducing agents Alkali metals

Alkaline earth metals

Nitric acid Alcohol Amines

: Vapours may form explosive mixture with air.

: Further information: No decomposition if stored and applied as

directed.

# 10.4 Conditions to avoid

Conditions to avoid : Protect from frost.

according to Regulation (EC) No. 1907/2006



# Special Stains Trich.III Blue Staining K

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Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Acids and bases

> Oxidizing agents Reducing agents Alkali metals Alkaline earth metals

Nitric acid Acid chlorides Acid anhydrides Peroxides Ammonia Alcohol **Amines** 

## 10.6 Hazardous decomposition products

Hazardous decomposition

products

: In case of fire hazardous decomposition products may be

produced such as: Carbon oxides nitrogen oxides (NOx)

**Hydrocarbons** 

Gaseous hydrogen chloride (HCI).

Sulphur oxides Oxides of phosphorus

Phosphorus trihydride (phosphine)

# 11. Toxicological information

## 11.1 Information on toxicological effects

**Bouin's Solution Components:** acetic acid:

: LD50 Oral: 3,310 mg/kg, rat Acute oral toxicity : LD50 Dermal: 1016 µl/kg, rabbit Acute dermal toxicity

Acute toxicity (other routes of : no data available

administration)

Skin corrosion/irritation : Result: Causes severe burns., Extremely corrosive and

destructive to tissue.

Serious eye damage/eye

irritation

: May cause irreversible eye damage.

Respiratory or skin

sensitization

: Result: no data available

STOT - single exposure : Assessment: The substance or mixture is not classified as

specific target organ toxicant, single exposure.

according to Regulation (EC) No. 1907/2006



# Special Stains Trich.III Blue Staining K

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Aspiration toxicity : no data available

Further information : no data available

formaldehyde:

Acute oral toxicity : LD50: 100 mg/kg, rat

: LD50: 42 mg/kg, mouse

Acute inhalation toxicity : LC50: 203 mg/l, rat

: LC50: 0.155 mg/l, 2 h, mouse,

: LD50: 270 mg/kg, rabbit Acute dermal toxicity

Acute toxicity (other routes of : LD50: 87 mg/kg, rat

administration)

: LD50: 300 mg/kg, mouse

: LD50: 420 mg/kg, rat

Skin corrosion/irritation : Result: Causes burns., Extremely corrosive and destructive to

tissue.

Serious eye damage/eye

irritation

: May cause irreversible eye damage.

Respiratory or skin

sensitization

: Classification: May cause sensitization by skin contact.,

Causes sensitization.

Aspiration toxicity : no data available

Further information : no data available

Hematoxylin A **Components:** 

ethanol:

Acute oral toxicity : LD50: 7,000 mg/kg, rat

: LD50: 3,450 mg/kg, mouse

: LC50: 20000 ppm, 10 h, rat, Acute inhalation toxicity

: LC50: 39 g/m3, 4 h, mouse,

: no data available Acute dermal toxicity

administration)

Acute toxicity (other routes of : no data available

Skin corrosion/irritation : This information is not available. : This information is not available. Serious eye damage/eye

irritation

Respiratory or skin

sensitization

: Result: no data available

STOT - single exposure : Assessment: The substance or mixture is not classified as

specific target organ toxicant, single exposure.

according to Regulation (EC) No. 1907/2006



# Special Stains Trich.III Blue Staining K

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Aspiration toxicity : no data available

Further information : no data available

methanol:

Acute oral toxicity : LD50 Oral: 7,300 mg/kg, mouse

: LD50 Oral: 5,600 mg/kg, rat

Acute inhalation toxicity : LC50: 85.26 mg/l, 4 h, rat,

: LC50: 64000 ppm, 4 h, rat,

: LD50 Dermal: 15,800 mg/kg, rabbit Acute dermal toxicity

Acute toxicity (other routes of : no data available

administration)

Skin corrosion/irritation : The product may be absorbed through the skin., May irritate

Serious eye damage/eye

irritation

: Contact with eyes may cause irritation.

Respiratory or skin

sensitization

: guinea pig, Did not cause sensitization on laboratory animals.

Germ cell mutagenicity

Genotoxicity in vitro : Ames test, Result: negative

Genotoxicity in vivo : Result: negative

STOT - single exposure : Assessment: Causes damage to organs.

STOT - repeated exposure : Assessment: The substance or mixture is not classified as

specific target organ toxicant, repeated exposure.

: No aspiration toxicity classification Aspiration toxicity

Further information : Solvents may degrease the skin.

propan-2-ol:

Acute oral toxicity : LD50 Oral: 4,570 mg/kg, rat

> : LD50 Oral: 3,600 mg/kg, mouse : LD50 Oral: 6,410 mg/kg, rabbit

Acute inhalation toxicity : LC50: 30 mg/l, 16000 ppm, 4 h, rat,

: LC50: 53 mg/l, mouse

Acute dermal toxicity : LD50 Dermal: 13,400 mg/kg, rabbit

Acute toxicity (other routes of : no data available

administration)

: May cause skin irritation in susceptible persons. Skin corrosion/irritation

Serious eye damage/eye : Result: Irritating to eyes., May cause irreversible eye damage.

according to Regulation (EC) No. 1907/2006



# Special Stains Trich.III Blue Staining K

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irritation

STOT - single exposure : Assessment: May cause drowsiness or dizziness.

Aspiration toxicity : no data available

Further information : no data available

haematoxylin:

Acute oral toxicity : LD50 Oral: 400 mg/kg, rat

Acute inhalation toxicity : no data available : no data available Acute dermal toxicity Acute toxicity (other routes of : no data available

administration)

Skin corrosion/irritation : Result: Irritating to skin., May cause skin irritation in

susceptible persons.

Serious eye damage/eye

irritation

: Result: Irritating to eyes., May cause irreversible eye damage.

Respiratory or skin

sensitization

: Result: no data available

STOT - single exposure : Exposure routes: Inhalation

Assessment: May cause respiratory irritation.

STOT - repeated exposure : Assessment: The substance or mixture is not classified as

specific target organ toxicant, repeated exposure.

Aspiration toxicity : no data available

Further information : no data available

Hematoxylin B **Components:** 

Iron(III)-chloride hexahydrate:

Acute oral toxicity : LD50 Oral: 316 mg/kg, rat

Acute inhalation toxicity : no data available : no data available Acute dermal toxicity

Skin corrosion/irritation : rabbit, Result: Irritating to skin., May cause skin irritation in

susceptible persons.

Serious eye damage/eye

irritation

sensitization

: rabbit, Result: Risk of serious damage to eyes., May cause

irreversible eye damage.

Respiratory or skin

: Result: no data available

Germ cell mutagenicity

Assessment : Not mutagenic in Ames Test.

according to Regulation (EC) No. 1907/2006



# Special Stains Trich.III Blue Staining K

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STOT - single exposure : Assessment: The substance or mixture is not classified as

specific target organ toxicant, single exposure.

STOT - repeated exposure : Assessment: The substance or mixture is not classified as

specific target organ toxicant, repeated exposure.

Aspiration toxicity : no data available

Further information : no data available

Enhancer

No ingredients are hazardous according to OHSA criteria.

Red

**Components:** 

ethanol:

Acute oral toxicity : LD50: 7,000 mg/kg, rat

: LD50: 3,450 mg/kg, mouse

: LC50: 20000 ppm, 10 h, rat, Acute inhalation toxicity

: LC50: 39 g/m3, 4 h, mouse,

Acute dermal toxicity : no data available

Acute toxicity (other routes of : no data available

administration)

Skin corrosion/irritation : This information is not available.

Serious eye damage/eye

irritation

: This information is not available.

Respiratory or skin

sensitization

: Result: no data available

STOT - single exposure : Assessment: The substance or mixture is not classified as

specific target organ toxicant, single exposure.

Aspiration toxicity : no data available

Further information : no data available

acetic acid:

Acute oral toxicity : LD50 Oral: 3,310 mg/kg, rat Acute dermal toxicity : LD50 Dermal: 1016 µl/kg, rabbit

Acute toxicity (other routes of : no data available

administration)

Skin corrosion/irritation : Result: Causes severe burns., Extremely corrosive and

destructive to tissue.

Serious eye damage/eye : May cause irreversible eye damage.

according to Regulation (EC) No. 1907/2006



# Special Stains Trich.III Blue Staining K

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irritation

Respiratory or skin

sensitization

: Result: no data available

STOT - single exposure : Assessment: The substance or mixture is not classified as

specific target organ toxicant, single exposure.

Aspiration toxicity : no data available

Further information : no data available

Red 2

**Components:** 

acetic acid:

Acute oral toxicity : LD50 Oral: 3,310 mg/kg, rat : LD50 Dermal: 1016 µl/kg, rabbit Acute dermal toxicity

Acute toxicity (other routes of : no data available

administration)

Skin corrosion/irritation : Result: Causes severe burns., Extremely corrosive and

destructive to tissue.

Serious eye damage/eye

irritation

: May cause irreversible eye damage.

Respiratory or skin

sensitization

: Result: no data available

STOT - single exposure : Assessment: The substance or mixture is not classified as

specific target organ toxicant, single exposure.

Aspiration toxicity : no data available

Further information : no data available

Mordant

**Components:** 

Phosphormolybdänsäure:

Acute oral toxicity : no data available Acute inhalation toxicity : no data available : no data available Acute dermal toxicity Acute toxicity (other routes of : no data available

administration)

Skin corrosion/irritation : Result: Causes burns., Extremely corrosive and destructive to

tissue.

Serious eye damage/eye

irritation

: May cause irreversible eye damage.

Respiratory or skin : Result: no data available

according to Regulation (EC) No. 1907/2006



# Special Stains Trich.III Blue Staining K

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sensitization

STOT - single exposure : Assessment: The substance or mixture is not classified as

specific target organ toxicant, single exposure.

Aspiration toxicity : no data available

Further information : no data available

Blue

No ingredients are hazardous according to OHSA criteria.

Blue 2

**Components:** 

hydrogen chloride:

Acute oral toxicity : no data available
Acute inhalation toxicity : no data available
Acute dermal toxicity : no data available
Acute toxicity (other routes of : no data available

administration)

Skin corrosion/irritation : Result: Causes burns., Extremely corrosive and destructive to

tissue.

Serious eye damage/eye

irritation

: Result: Risk of serious damage to eyes., May cause

irreversible eye damage.

STOT - single exposure : Assessment: May cause respiratory irritation.

STOT - repeated exposure : Assessment: The substance or mixture is not classified as

specific target organ toxicant, repeated exposure.

Aspiration toxicity : no data available

Further information : no data available

## 12. Ecological information

## 12.1 Toxicity

Bouin's Solution Components:

acetic acid:

Toxicity to fish : LC50: 410 mg/l, 48 h, Leuciscus idus (Golden orfe) Toxicity to daphnia and other : EC50: 95 mg/l, 24 h, Daphnia magna (Water flea)

aquatic invertebrates

Toxicity to algae : no data available Toxicity to bacteria : no data available

according to Regulation (EC) No. 1907/2006



# Special Stains Trich.III Blue Staining K

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**Ecotoxicology Assessment** 

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to

the environment

: no data available

formaldehyde:

: LC50: 108 mg/l, Leuciscus idus (Golden orfe) Toxicity to fish

: LC50: 50 mg/l, Oncorhynchus mykiss (rainbow trout)

: LC50: 41 mg/l, 96 h, Danio rerio (zebra fish)

: LC100: 70 mg/l, Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other : EC50: 42 mg/l, 24 h, Daphnia magna (Water flea), OECD Test

aquatic invertebrates Guideline 202

Toxicity to algae : 2.5 mg/l, 168 h, Scenedesmus quadricauda (Green algae) : EC0: 14 mg/l, 16 h, Pseudomonas putida

Toxicity to bacteria

**Ecotoxicology Assessment** 

Acute aquatic toxicity : This product has no known eco-toxicological effects.

Chronic aquatic toxicity : This product has no known eco-toxicological effects.

: Not expected to adsorb on soil. Toxicity Data on Soil

Other organisms relevant to

the environment

: no data available

Hematoxylin A **Components:** 

ethanol:

: LC50: 8,000 mg/l, 48 h, Leuciscus idus (Golden orfe) Toxicity to fish

: LC50: 7,100 mg/l, Oncorhynchus mykiss (rainbow trout),

**OECD Test Guideline 203** 

aquatic invertebrates

Toxicity to daphnia and other : EC50: 5,400 mg/l, 48 h, Daphnia magna (Water flea)

: EC0: 5,000 mg/l, 7 d, Scenedesmus quadricauda (Green

Toxicity to algae

Toxicity to bacteria

**Ecotoxicology Assessment** 

: EC0: 6,500 mg/l, 16 h, Pseudomonas putida

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to

the environment

: no data available

methanol:

Toxicity to fish : LC50: 15,400 mg/l, 96 h, Lepomis macrochirus (Bluegill

sunfish)

: LC50: 8,000 mg/l, 48 h, Oncorhynchus mykiss (rainbow trout)

: LC50: > 10,000 mg/l, Leuciscus idus (Golden orfe)

aquatic invertebrates

Toxicity to daphnia and other : EC50: > 10,000 mg/l, 48 h, Daphnia magna (Water flea)

according to Regulation (EC) No. 1907/2006



# Special Stains Trich.III Blue Staining K

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Toxicity to algae : 8,000 mg/l, 8 d, Scenedesmus quadricauda (Green algae)

Toxicity to bacteria : 6,600 mg/l, 16 h, Bacteria

**Ecotoxicology Assessment** 

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to

the environment

: no data available

propan-2-ol:

: LC0: 10,000 mg/l, Oncorhynchus mykiss (rainbow trout), Toxicity to fish

**OECD Test Guideline 203** 

: LC50: 12,250 mg/l, Oncorhynchus mykiss (rainbow trout),

**OECD Test Guideline 203** 

LC100: 15,000 mg/l, Oncorhynchus mykiss (rainbow trout),

**OECD Test Guideline 203** 

aquatic invertebrates

Toxicity to algae

Toxicity to daphnia and other : EC50: 9,500 mg/l, 24 h, Daphnia magna (Water flea)

: EC0: 1,800 mg/l, 168 h, Scenedesmus quadricauda (Green

algae), OECD Test Guideline 201

Toxicity to bacteria

**Ecotoxicology Assessment** 

: EC0: 1,050 mg/l, 16 h, Pseudomonas putida

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to

the environment

: no data available

haematoxylin:

Toxicity to fish Toxicity to daphnia and other : no data available

aquatic invertebrates Toxicity to algae

Toxicity to bacteria

: no data available

: no data available : no data available

**Ecotoxicology Assessment** 

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to

the environment

: no data available

Hematoxylin B **Components:** 

Iron(III)-chloride hexahydrate:

Toxicity to fish : LC50: 22 mg/l, 96 h, Pimephales promelas (fathead minnow)

Toxicity to daphnia and other : EC50: 9.6 mg/l, 48 h, Daphnia magna (Water flea)

aquatic invertebrates

Toxicity to algae

: no data available : no data available

Toxicity to bacteria **Ecotoxicology Assessment** 

Toxicity Data on Soil : Not expected to adsorb on soil.

according to Regulation (EC) No. 1907/2006



# Special Stains Trich.III Blue Staining K

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Other organisms relevant to

the environment

: no data available

Enhancer

No ingredients are hazardous according to OHSA criteria.

Red

**Components:** 

ethanol:

: LC50: 8,000 mg/l, 48 h, Leuciscus idus (Golden orfe) Toxicity to fish

: LC50: 7,100 mg/l, Oncorhynchus mykiss (rainbow trout),

**OECD Test Guideline 203** 

aquatic invertebrates

Toxicity to daphnia and other : EC50: 5,400 mg/l, 48 h, Daphnia magna (Water flea)

Toxicity to algae : EC0: 5,000 mg/l, 7 d, Scenedesmus quadricauda (Green

algae)

Toxicity to bacteria

**Ecotoxicology Assessment** 

: EC0: 6,500 mg/l, 16 h, Pseudomonas putida

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to

the environment

: no data available

acetic acid:

Toxicity to fish

aquatic invertebrates

: LC50: 410 mg/l, 48 h, Leuciscus idus (Golden orfe) Toxicity to daphnia and other : EC50: 95 mg/l, 24 h, Daphnia magna (Water flea)

Toxicity to algae : no data available Toxicity to bacteria : no data available

**Ecotoxicology Assessment** 

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to

the environment

: no data available

Red 2

**Components:** 

acetic acid:

Toxicity to fish

aquatic invertebrates

: LC50: 410 mg/l, 48 h, Leuciscus idus (Golden orfe)

Toxicity to daphnia and other : EC50: 95 mg/l, 24 h, Daphnia magna (Water flea)

Toxicity to algae : no data available : no data available Toxicity to bacteria

**Ecotoxicology Assessment** 

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to : no data available

the environment

according to Regulation (EC) No. 1907/2006



# Special Stains Trich.III Blue Staining K

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Mordant

**Components:** 

Phosphormolybdänsäure:

Toxicity to fish : LC100: 25 mg/l, Fish Toxicity to daphnia and other : no data available

aquatic invertebrates

Toxicity to algae : EC100: 54 mg/l, Scenedesmus quadricauda (Green algae)

: no data available Toxicity to bacteria

**Ecotoxicology Assessment** 

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to : no data available

the environment

Blue

No ingredients are hazardous according to OHSA criteria.

Blue 2

**Components:** 

hydrogen chloride:

: no data available Toxicity to fish Toxicity to daphnia and other : no data available

aquatic invertebrates

Toxicity to algae : no data available : no data available Toxicity to bacteria

**Ecotoxicology Assessment** 

Acute aquatic toxicity : This product has no known eco-toxicological effects.

Chronic aquatic toxicity : This product has no known eco-toxicological effects.

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to

the environment

: no data available

## 12.2 Persistence and degradability

**Bouin's Solution Components:** acetic acid:

Biodegradability : 71 %, Exposure time: 5 d

formaldehyde:

Biodegradability : no data available

Hematoxylin A **Components:** 

ethanol:

according to Regulation (EC) No. 1907/2006



# Special Stains Trich.III Blue Staining K

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Biodegradability

: no data available

methanol:

Biodegradability : 99 %, Result: Readily biodegradable., Exposure time: 30 d,

**OECD Test Guideline 301** 

propan-2-ol:

Biodegradability : 99 %, Exposure time: 11 d, OECD Test Guideline 302 : 57 %, Exposure time: 5 d, OECD Test Guideline 302

haematoxylin:

Biodegradability : no data available

Hematoxylin B Components:

Iron(III)-chloride hexahydrate:

Biodegradability : no data available

Enhancer

No ingredients are hazardous according to OHSA criteria.

Red

**Components:** 

ethanol:

Biodegradability : no data available

acetic acid:

Biodegradability : 71 %, Exposure time: 5 d

Red 2

Components: acetic acid :

Biodegradability : 71 %, Exposure time: 5 d

Mordant
Components:

Phosphormolybdänsäure:

Biodegradability : no data available

Blue

No ingredients are hazardous according to OHSA criteria.

Blue 2

**Components:** 

hydrogen chloride:

Biodegradability : no data available

12.3 Bioaccumulative potential

Bouin's Solution Components: acetic acid :

Bioaccumulation : no data available

formaldehyde:

Bioaccumulation : no data available

according to Regulation (EC) No. 1907/2006



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Hematoxylin A Components: ethanol:

Bioaccumulation : no data available

methanol:

Bioaccumulation : Does not bioaccumulate.

propan-2-ol:

Bioaccumulation : no data available

haematoxylin:

Bioaccumulation : no data available

Hematoxylin B Components:

Iron(III)-chloride hexahydrate:

Bioaccumulation : no data available

Enhancer

No ingredients are hazardous according to OHSA criteria.

Red

Components: ethanol:

Bioaccumulation : no data available

acetic acid:

Bioaccumulation : no data available

Red 2

Components: acetic acid :

Bioaccumulation : no data available

Mordant Components:

Phosphormolybdänsäure:

Bioaccumulation : no data available

Blue

No ingredients are hazardous according to OHSA criteria.

Blue 2

<u>Components:</u> hydrogen chloride :

Bioaccumulation : no data available

12.4 Mobility in soil

according to Regulation (EC) No. 1907/2006



# Special Stains Trich.III Blue Staining K

Version 1.0 Revision Date 06-29-2012 Print Date 05-13-2013

Bouin's Solution **Components:** 

acetic acid:

Mobility : no data available Distribution among : no data available

environmental compartments

Environmental fate and : no data available

pathways

Physico-chemical : no data available

removability

formaldehyde:

Mobility : no data available Distribution among : no data available

environmental compartments

Environmental fate and : no data available

pathways

Physico-chemical : no data available

removability

Hematoxylin A **Components:** 

ethanol:

Distribution among Mobility : no data available : no data available

environmental compartments

Environmental fate and : no data available

pathways

Physico-chemical

removability

: no data available

methanol:

Mobility : no data available Distribution among : no data available

environmental compartments

Environmental fate and

pathways

: no data available

Physico-chemical : no data available

removability

propan-2-ol:

: no data available Mobility Distribution among : no data available

environmental compartments

Environmental fate and

pathways

Physico-chemical

removability

: no data available : no data available

according to Regulation (EC) No. 1907/2006



# Special Stains Trich.III Blue Staining K

Print Date 05-13-2013 Version 1.0 Revision Date 06-29-2012

haematoxylin:

Mobility : no data available Distribution among : no data available

environmental compartments

Environmental fate and : no data available

pathways

Physico-chemical : no data available

removability

Hematoxylin B Components:

Iron(III)-chloride hexahydrate:

Distribution among : no data available environment : no data available

environmental compartments

Environmental fate and : no data available

pathways

Physico-chemical : no data available

removability

Enhancer

No ingredients are hazardous according to OHSA criteria.

Red

**Components:** 

ethanol:

Mobility
Distribution among : no data available : no data available

environmental compartments

Environmental fate and : no data available

pathways

: no data available Physico-chemical

removability

acetic acid:

Mobility : no data available Distribution among : no data available

environmental compartments

Environmental fate and : no data available

pathways

Physico-chemical : no data available

removability

Red 2

**Components:** acetic acid:

Distribution among : no data available : no data available

environmental compartments

according to Regulation (EC) No. 1907/2006



## Special Stains Trich.III Blue Staining K

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Environmental fate and

pathways

: no data available

Physico-chemical

: no data available

removability

Mordant

Components:

Phosphormolybdänsäure:

Mobility : no data available Distribution among : no data available

environmental compartments

Environmental fate and : no data available

pathways

Physico-chemical : no data available

removability

Blue

No ingredients are hazardous according to OHSA criteria.

Blue 2

Components:

hydrogen chloride:

Mobility : no data available Distribution among : no data available

environmental compartments

Environmental fate and : no data available

pathways

Physico-chemical : no data available

removability

12.5 Results of PBT and vPvB assessment

Bouin's Solution **Components:** acetic acid:

Assessment : This substance is not considered to be persistent,

bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent nor very bioaccumulating

(vPvB).

formaldehyde:

Assessment : This substance is not considered to be persistent,

bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent nor very bioaccumulating

(vPvB).

according to Regulation (EC) No. 1907/2006



## Special Stains Trich.III Blue Staining K

Version 1 . 0 Revision Date 06-29-2012 Print Date 05-13-2013

Hematoxylin A Components: ethanol:

Assessment : This substance is not considered to be persistent,

bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent nor very bioaccumulating

(vPvB).

methanol:

Assessment : This substance is not considered to be persistent,

bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent nor very bioaccumulating

(vPvB).

propan-2-ol:

Assessment : This substance is not considered to be persistent,

bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent nor very bioaccumulating

(vPvB).

haematoxylin:

Assessment : This substance is not considered to be persistent,

bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent nor very bioaccumulating

(vPvB).

Hematoxylin B Components:

Iron(III)-chloride hexahydrate:

Assessment : This substance is not considered to be persistent.

bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent nor very bioaccumulating

(vPvB).

Enhancer

No ingredients are hazardous according to OHSA criteria.

Red

Components: ethanol :

Assessment : This substance is not considered to be persistent,

bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent nor very bioaccumulating

(vPvB).

acetic acid:

Assessment : This substance is not considered to be persistent,

bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent nor very bioaccumulating

(vPvB).

Red 2

according to Regulation (EC) No. 1907/2006



## Special Stains Trich.III Blue Staining K

Version 1 . 0 Revision Date 06-29-2012 Print Date 05-13-2013

Components: acetic acid:

Assessment : This substance is not considered to be persistent,

bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent nor very bioaccumulating

(vPvB).

Mordant Components:

Phosphormolybdänsäure:

Assessment : This substance is not considered to be persistent,

bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent nor very bioaccumulating

(vPvB).

Blue

No ingredients are hazardous according to OHSA criteria.

Blue 2

<u>Components:</u> hydrogen chloride:

Assessment : This substance is not considered to be persistent,

bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent nor very bioaccumulating

(vPvB).

#### 12.6 Other adverse effects

Bouin's Solution Components: acetic acid:

Biochemical Oxygen : no data available

Demand (BOD)

Dissolved organic carbon : no data available

(DOC)

Chemical Oxygen Demand : no data available

(COD)

Adsorbed organic bound : no data available

halogens (AOX)

formaldehyde:

Biochemical Oxygen : no data available

Demand (BOD)

Dissolved organic carbon : no data available

(DOC)

Chemical Oxygen Demand : no data available

(COD)

Adsorbed organic bound : no data available

halogens (AOX)

according to Regulation (EC) No. 1907/2006



## Special Stains Trich.III Blue Staining K

Version 1.0 Revision Date 06-29-2012 Print Date 05-13-2013

Hematoxylin A Components:

ethanol:

Biochemical Oxygen

Demand (BOD)

Dissolved organic carbon

(DOC)

Chemical Oxygen Demand

(COD)

Adsorbed organic bound

halogens (AOX)

: no data available : no data available

: no data available

: no data available

methanol:

Biochemical Oxygen

Demand (BOD)

Dissolved organic carbon

(DOC)

Chemical Oxygen Demand

(COD)

Adsorbed organic bound

halogens (AOX)

: 600 - 1,120 mg/g, Biochemical oxygen demand, 5 d

: no data available

: 1,420 mg/g

: no data available

propan-2-ol:

Biochemical Oxygen

Demand (BOD)

Dissolved organic carbon

(DOC)

Chemical Oxygen Demand

(COD)

Adsorbed organic bound

halogens (AOX)

: no data available

: no data available

: no data available

: no data available

haematoxylin:

Biochemical Oxygen

Demand (BOD)

Dissolved organic carbon : no data available

(DOC)

Chemical Oxygen Demand

(COD)

Adsorbed organic bound

halogens (AOX)

: no data available

: no data available

: no data available

Hematoxylin B Components:

Iron(III)-chloride hexahydrate:

Biochemical Oxygen

: no data available

Demand (BOD)

Dissolved organic carbon : no data available

according to Regulation (EC) No. 1907/2006



## Special Stains Trich.III Blue Staining K

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(DOC)

Chemical Oxygen Demand

: no data available

(COD)

Adsorbed organic bound

halogens (AOX)

: no data available

#### Enhancer

No ingredients are hazardous according to OHSA criteria.

#### Red

#### **Components:**

ethanol:

Biochemical Oxygen

: no data available

Demand (BOD)

Dissolved organic carbon : no data available

(DOC)

Chemical Oxygen Demand : no data available

(COD)

Adsorbed organic bound : no data available

halogens (AOX)

### acetic acid:

Biochemical Oxygen

: no data available

Demand (BOD)

Dissolved organic carbon

: no data available

(DOC)

Chemical Oxygen Demand

(COD)

: no data available

Adsorbed organic bound

halogens (AOX)

: no data available

#### Red 2

## **Components:**

acetic acid:

Biochemical Oxygen

: no data available

Demand (BOD)

Dissolved organic carbon : no data available

(DOC)

Chemical Oxygen Demand

(COD)

: no data available

Adsorbed organic bound : no data available

halogens (AOX)

#### Mordant

## **Components:**

Phosphormolybdänsäure:

Biochemical Oxygen

Demand (BOD)

: no data available

Dissolved organic carbon

: no data available

according to Regulation (EC) No. 1907/2006



## Special Stains Trich.III Blue Staining K

Version 1.0 Revision Date 06-29-2012 Print Date 05-13-2013

(DOC)

Chemical Oxygen Demand

: no data available

(COD)

Adsorbed organic bound : no data available

halogens (AOX)

Blue

No ingredients are hazardous according to OHSA criteria.

Blue 2

Components:

hydrogen chloride:

Biochemical Oxygen

: no data available

Demand (BOD)

Dissolved organic carbon : no data available

(DOC)

Chemical Oxygen Demand : no data available

(COD)

Adsorbed organic bound : no data available

halogens (AOX)

Additional ecological

information

: no data available

## 13. Disposal considerations

#### 13.1 Waste treatment methods

Product : Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company.

Can be disposed as waste water, when in compliance with

local regulations.

Contaminated packaging : Empty remaining contents.

> Dispose of as unused product. Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty drum.

## 14. Transport information

## 14.1 UN number

DOT : 3316 **IMDG** : 3316 **IATA** : 3316

14.2 Proper shipping name

DOT : Chemical kits

according to Regulation (EC) No. 1907/2006



## Special Stains Trich.III Blue Staining K

Print Date 05-13-2013 Version 1.0 Revision Date 06-29-2012

**IMDG** : Chemical kit IATA : Chemical kit

14.3 Transport hazard class

: 9 **IMDG** : 9 **IATA** 

14.4 Packing group

DOT

Packaging group : II
Labels : 9
Tunnel restriction code : packed

**IMDG** 

Packaging group : II Labels : 9 EmS Number : F-

: F-A, S-P

IATA C

Packing instruction (cargo : 960

aircraft)

Packaging group : II Labels : 9

IATA P

Packing instruction (passenger aircraft) : 960

: 11 Packaging group Labels

14.5 Environmental hazards

Environmentally hazardous : no

Marine Pollutant : no

**IATA** 

Environmentally hazardous : no

14.6 Special precautions for user

no data available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remarks : not applicable

15. Regulatory information

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

**Bouin's Solution** 

REGULATORY INFORMATION

according to Regulation (EC) No. 1907/2006



## Special Stains Trich.III Blue Staining K

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OSHA Hazards : Highly toxic by inhalation

Toxic by ingestion
Toxic by skin absorption

Skin sensitiser Corrosive to skin Carcinogen

WHMIS Classification : D1A Very Toxic Material Causing Immediate and Serious Toxic

**Effects** 

Highly toxic by inhalation

D1B Toxic Material Causing Immediate and Serious Toxic

**Effects** 

Toxic by ingestion

D2A Very Toxic Material Causing Other Toxic Effects

Toxic by skin absorption

D2B Toxic Material Causing Other Toxic Effects

Carcinogen

E Corrosive Material Skin sensitiser

Corrosive to metals

Corrosive to skin

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

## **CERCLA Reportable Quantity**

Components : <u>formaldehyde</u> 100 lbs

**SARA 302 Reportable Quantity** 

Product : 2778lbs

Components : <u>formaldehyde</u>

SARA 311/312 Hazards : Acute Health Hazard

Chronic Health Hazard

## **EPCRA - Emergency Planning and Community Right-to-Know Act**

SARA 302 : The following components are subject to reporting levels

established by SARA Title III, Section 302:

Components : formaldehyde

SARA 304 :

Components : formaldehyde

Components : formaldehyde

Clean Air Act

according to Regulation (EC) No. 1907/2006



## Special Stains Trich.III Blue Staining K

Version 1 . 0 Revision Date 06-29-2012 Print Date 05-13-2013

Ozone-Depletion Potential

: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act

Section 602 (40 CFR 82, Subpt. A, App.A + B).

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR

61):

<u>formaldehyde</u> 3.6 %

The following chemical(s) are listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F):

formaldehyde 3.6 %

The following chemical(s) are listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F):

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

acetic acid 5 %

formaldehyde 3.6 %

#### **Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

#### **US State Regulations**

#### **Massachusetts Right To Know**

Components : acetic acid 5 - 10 % formaldehyde 1 - 5 %

#### Pennsylvania Right To Know

picric acid 0 - 0.1 %

### **New Jersey Right To Know**

Components : water 60 - 100 % acetic acid 5 - 10 %

formaldehyde 1 - 5 %

California Prop 65 : This product does not contain any chemicals known to State of

**Components** California to cause cancer, birth defects, or any other

reproductive harm.

## Hematoxylin A

### **REGULATORY INFORMATION**

according to Regulation (EC) No. 1907/2006



## Special Stains Trich.III Blue Staining K

Version 1 . 0 Revision Date 06-29-2012 Print Date 05-13-2013

TSCA list : Listed

(a) List of substances. The following chemical substances are subject to all the provisions of part 716. Manufacturers, importers, and processors of a listed substance are subject to the reporting requirements of subpart A for that substance.

OSHA Hazards : Flammable liquid

Toxic by ingestion Moderate skin irritant Moderate eye irritant

Carcinogen

WHMIS Classification : B2 Flammable liquid

Flammable liquid

D1B Toxic Material Causing Immediate and Serious Toxic

**Effects** 

Toxic by ingestion

D2B Toxic Material Causing Other Toxic Effects

Moderate skin irritant

Moderate eye irritant

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

### **CERCLA Reportable Quantity**

Components : methanol 5000 lbs methanol 5000 lbs

**SARA 302 Reportable Quantity** 

Product : This material does not contain any components with a SARA

302 RQ.

Fire Hazard

Acute Health Hazard Chronic Health Hazard

## **EPCRA - Emergency Planning and Community Right-to-Know Act**

SARA 302 : SARA 302: No chemicals in this material are subject to the

reporting requirements of SARA Title III, Section 302.

SARA 304 : This material does not contain any components with a section

304 EHS RQ.

Components : methanol

Clean Air Act

according to Regulation (EC) No. 1907/2006



## Special Stains Trich.III Blue Staining K

Revision Date 06-29-2012 Version 1.0 Print Date 05-13-2013

Ozone-Depletion **Potential** 

: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act

Section 602 (40 CFR 82, Subpt. A, App.A + B).

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR

methanol 4.75 %

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

ethanol 85.5 %

methanol 4.75 %

4.75 % propan-2-ol

#### **Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

## **US State Regulations**

## **Massachusetts Right To Know**

Components	: ethanol	70 - 90 %
	methanol	1 - 5 %
	propan-2-ol	1 - 5 %

### Pennsylvania Right To Know

Components	: ethanol	70 - 90 %
	methanol	1 - 5 %
	propan-2-ol	1 - 5 %
	water	1 - 5 %

### **New Jersey Right To Know**

Components	: ethanol	70 - 90 %
	methanol	1 - 5 %
	propan-2-ol	1 - 5 %
	water	1 - 5 %
	haematoxylin	1 - 5 %

California Prop 65

: This product does not contain any chemicals known to State of Components

California to cause cancer, birth defects, or any other

reproductive harm.

according to Regulation (EC) No. 1907/2006



## Special Stains Trich.III Blue Staining K

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Hematoxylin B

**REGULATORY INFORMATION** 

OSHA Hazards : Toxic by ingestion

Moderate skin irritant Severe eye irritant

WHMIS Classification : D1B Toxic Material Causing Immediate and Serious Toxic

Effects

Toxic by ingestion

D2B Toxic Material Causing Other Toxic Effects

Moderate skin irritant E Corrosive Material Severe eye irritant

Corrosive to metals

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

**CERCLA Reportable Quantity** 

Components : Iron(III)-chloride 1000 lbs

hexahydrate

**SARA 302 Reportable Quantity** 

Product : This material does not contain any components with a SARA

302 RQ.

Acute Health Hazard

**EPCRA - Emergency Planning and Community Right-to-Know Act** 

SARA 302 : SARA 302: No chemicals in this material are subject to the

reporting requirements of SARA Title III, Section 302.

SARA 304 : This material does not contain any components with a section

304 EHS RQ.

Clean Air Act

Ozone-Depletion : This product neither contains, nor was manufactured with a

Potential Class I or Class II ODS as defined by the U.S. Clean Air Act

Section 602 (40 CFR 82, Subpt. A, App.A + B).

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR

61):

<u>hydrogen chloride</u> 0.2 %

according to Regulation (EC) No. 1907/2006



## Special Stains Trich.III Blue Staining K

Version 1 . 0 Revision Date 06-29-2012 Print Date 05-13-2013

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

#### **Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

## **US State Regulations**

## Massachusetts Right To Know

Components : Iron(III)-chloride 1 - 5 %

hexahydrate

hydrogen chloride 0.1 - 1 %

Pennsylvania Right To Know

Components : water 60 - 100 %

Iron(III)-chloride 1 - 5 %

hexahydrate hydrogen chloride

0.1 - 1 %

**New Jersey Right To Know** 

Components : water 60 - 100 %

Iron(III)-chloride 1 - 5 %

hexahydrate

California Prop 65

Components

: This product does not contain any chemicals known to State of

California to cause cancer, birth defects, or any other

reproductive harm.

### Enhancer

### **REGULATORY INFORMATION**

OSHA Hazards : No OSHA Hazards

WHMIS Classification : Not Rated

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

### **CERCLA Reportable Quantity**

### **SARA 302 Reportable Quantity**

Product : This material does not contain any components with a SARA

according to Regulation (EC) No. 1907/2006



## Special Stains Trich.III Blue Staining K

Version 1.0 Revision Date 06-29-2012 Print Date 05-13-2013

302 RQ.

No SARA Hazards

#### **EPCRA - Emergency Planning and Community Right-to-Know Act**

**SARA 302** : SARA 302: No chemicals in this material are subject to the

reporting requirements of SARA Title III, Section 302.

**SARA 304** : This material does not contain any components with a section

304 EHS RQ.

Clean Air Act

: This product neither contains, nor was manufactured with a Ozone-Depletion Potential

Class I or Class II ODS as defined by the U.S. Clean Air Act

Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

## **Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

#### **US State Regulations**

## Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

## Pennsylvania Right To Know

60 - 100 % Components : water

**New Jersey Right To Know** 

60 - 100 % Components : water

> lithium carbonate 0.1 - 1 %

California Prop 65 : WARNING! This product contains a chemical known to the Components

State of California to cause birth defects or other reproductive

harm.

lithium carbonate

#### Red

## REGULATORY INFORMATION

according to Regulation (EC) No. 1907/2006



## Special Stains Trich.III Blue Staining K

Version 1.0 Revision Date 06-29-2012 Print Date 05-13-2013

**OSHA Hazards** : Combustible Liquid

> Corrosive to skin Carcinogen

**WHMIS Classification** : B3 Combustible Liquid

> Combustible Liquid E Corrosive Material Corrosive to metals

Corrosive to skin

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

**CERCLA Reportable Quantity** 

Components : acetic acid 5000 lbs

**SARA 302 Reportable Quantity** 

Product : This material does not contain any components with a SARA

302 RQ.

Fire Hazard

Acute Health Hazard Chronic Health Hazard

**EPCRA - Emergency Planning and Community Right-to-Know Act** 

: SARA 302: No chemicals in this material are subject to the **SARA 302** 

reporting requirements of SARA Title III, Section 302.

**SARA 304** : This material does not contain any components with a section

304 EHS RQ.

Clean Air Act

Ozone-Depletion : This product neither contains, nor was manufactured with a **Potential** 

Class I or Class II ODS as defined by the U.S. Clean Air Act

Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

7 % ethanol

1.5 % acetic acid

according to Regulation (EC) No. 1907/2006



## Special Stains Trich.III Blue Staining K

Version 1 . 0 Revision Date 06-29-2012 Print Date 05-13-2013

#### **Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

#### **US State Regulations**

### Massachusetts Right To Know

Components : ethanol 5 - 10 %

acetic acid 1 - 5 %

Pennsylvania Right To Know

Components : water 60 - 100 %

ethanol 5 - 10 % acetic acid 1 - 5 %

**New Jersey Right To Know** 

Components : water 60 - 100 %

ethanol 5 - 10 % acetic acid 1 - 5 %

California Prop 65 : This product does not contain any chemicals known to State of

**Components** California to cause cancer, birth defects, or any other

reproductive harm.

## Red 2

## REGULATORY INFORMATION

OSHA Hazards : Corrosive to skin

WHMIS Classification : E Corrosive Material

Corrosive to skin

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

## **CERCLA Reportable Quantity**

Components : acetic acid 5000 lbs

**SARA 302 Reportable Quantity** 

Product : This material does not contain any components with a SARA

302 RQ.

Acute Health Hazard

according to Regulation (EC) No. 1907/2006



## Special Stains Trich.III Blue Staining K

Version 1.0 Revision Date 06-29-2012 Print Date 05-13-2013

**EPCRA - Emergency Planning and Community Right-to-Know Act** 

SARA 302 : SARA 302: No chemicals in this material are subject to the

reporting requirements of SARA Title III, Section 302.

SARA 304 : This material does not contain any components with a section

304 EHS RQ.

Clean Air Act

Ozone-Depletion : This product neither contains, nor was manufactured with a

Potential Class I or Class II ODS as defined by the U.S. Clean Air Act

Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

acetic acid 1.5 %

#### **Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

#### **US State Regulations**

#### **Massachusetts Right To Know**

Components : acetic acid 1 - 5 %

Pennsylvania Right To Know

Components : water 60 - 100 %

acetic acid 1 - 5 %

**New Jersey Right To Know** 

Components : water 60 - 100 %

acetic acid 1 - 5 % sodium 6-(2- 1 - 5 %

hydroxynaphthylazo)-3,4'-azodibenzenesulphonate

California Prop 65 : This product does not contain any chemicals known to State of

Components California to cause cancer, birth defects, or any other

reproductive harm.

Mordant

REGULATORY INFORMATION

according to Regulation (EC) No. 1907/2006



## Special Stains Trich.III Blue Staining K

Revision Date 06-29-2012 Version 1.0 Print Date 05-13-2013

**OSHA Hazards** : Corrosive to skin

**WHMIS Classification** : E Corrosive Material

Corrosive to metals

Corrosive to skin

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

## **CERCLA Reportable Quantity**

## **SARA 302 Reportable Quantity**

Product : This material does not contain any components with a SARA

302 RQ.

Acute Health Hazard

### **EPCRA - Emergency Planning and Community Right-to-Know Act**

**SARA 302** : SARA 302: No chemicals in this material are subject to the

reporting requirements of SARA Title III, Section 302.

**SARA 304** : This material does not contain any components with a section

304 EHS RQ.

Clean Air Act

Ozone-Depletion : This product neither contains, nor was manufactured with a Potential

Class I or Class II ODS as defined by the U.S. Clean Air Act

Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

## **Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

#### **US State Regulations**

#### Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

according to Regulation (EC) No. 1907/2006



## Special Stains Trich.III Blue Staining K

Revision Date 06-29-2012 Version 1.0 Print Date 05-13-2013

Pennsylvania Right To Know

Components : water 60 - 100 %

> Phosphormolybdänsäure 1 - 5 %

**New Jersey Right To Know** 

Components : water 60 - 100 %

Phosphormolybdänsäure 1 - 5 %

California Prop 65

Components

: This product does not contain any chemicals known to State of

California to cause cancer, birth defects, or any other

reproductive harm.

Blue

REGULATORY INFORMATION

**OSHA Hazards** : No OSHA Hazards

WHMIS Classification : Not Rated

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

**CERCLA Reportable Quantity** 

5000 lbs Components : acetic acid

**SARA 302 Reportable Quantity** 

Product : This material does not contain any components with a SARA

302 RQ.

No SARA Hazards

**EPCRA - Emergency Planning and Community Right-to-Know Act** 

**SARA 302** : SARA 302: No chemicals in this material are subject to the

reporting requirements of SARA Title III, Section 302.

**SARA 304** : This material does not contain any components with a section

304 EHS RQ.

Clean Air Act

**Ozone-Depletion** 

: This product neither contains, nor was manufactured with a **Potential** Class I or Class II ODS as defined by the U.S. Clean Air Act

Section 602 (40 CFR 82, Subpt. A, App.A + B).

according to Regulation (EC) No. 1907/2006



## Special Stains Trich.III Blue Staining K

Version 1 . 0 Revision Date 06-29-2012 Print Date 05-13-2013

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

# The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

acetic acid 0.15 %

#### **Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

### **US State Regulations**

#### Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

### Pennsylvania Right To Know

Components : water 60 - 100 %

acetic acid 0.1 - 1 %

**New Jersey Right To Know** 

Components : water 60 - 100 %

California Prop 65

Components

: This product does not contain any chemicals known to State of

California to cause cancer, birth defects, or any other

reproductive harm.

#### Blue 2

### REGULATORY INFORMATION

OSHA Hazards : Corrosive to skin

Severe eye irritant

WHMIS Classification : D2B Toxic Material Causing Other Toxic Effects

Severe eye irritant E Corrosive Material Corrosive to metals

Corrosive to skin

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

## **CERCLA Reportable Quantity**

Components : <u>hydrogen chloride</u> 5000 lbs

according to Regulation (EC) No. 1907/2006



## Special Stains Trich.III Blue Staining K

Revision Date 06-29-2012 Version 1.0 Print Date 05-13-2013

**SARA 302 Reportable Quantity** 

Product : This material does not contain any components with a SARA

302 RQ.

Acute Health Hazard

**EPCRA - Emergency Planning and Community Right-to-Know Act** 

**SARA 302** : SARA 302: No chemicals in this material are subject to the

reporting requirements of SARA Title III, Section 302.

**SARA 304** : This material does not contain any components with a section

304 EHS RQ.

Clean Air Act

Ozone-Depletion : This product neither contains, nor was manufactured with a **Potential** 

Class I or Class II ODS as defined by the U.S. Clean Air Act

Section 602 (40 CFR 82, Subpt. A, App.A + B).

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR

61):

hydrogen chloride 5 %

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

0.75 % acetic acid

### **Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

## **US State Regulations**

## **Massachusetts Right To Know**

5 - 10 % Components : hydrogen chloride

Pennsylvania Right To Know

Components 60 - 100 % : water

hydrogen chloride 5 - 10 % 0.1 - 1 % acetic acid

**New Jersey Right To Know** 

Components : water 60 - 100 %

hydrogen chloride 5 - 10 %

according to Regulation (EC) No. 1907/2006



## Special Stains Trich.III Blue Staining K

Version 1 . 0 Revision Date 06-29-2012 Print Date 05-13-2013

California Prop 65 Components : This product does not contain any chemicals known to State of

California to cause cancer, birth defects, or any other

reproductive harm.

#### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance when it is used in the specified applications.

#### 16. Other information

### Full text of R-phrases referred to under sections 2 and 3

R 1 Explosive when dry.

R10 Flammable. R11 Highly flammable.

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R22 Harmful if swallowed.

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

#### Full text of H-Statements referred to under sections 2 and 3.

#### **Further information**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.